



Driven By Sound

RIBBON EQUIPPED LOUDSPEAKER SYSTEMS FOR PROFESSIONAL APPLICATIONS









Since the early 1970's, we have been designing, manufacturing, installing, and touring with some of the most innovative loudspeaker systems in the industry. For years, our custom crafted cabinets have been used by some of the biggest names in the business. Now, through continuing development, our loudspeakers have evolved to the highest level of sonic engineering; the perfect union of sight and sound. Our loudspeakers reproduce any input source with an uncolored accuracy not possible by any others in their category.

The basis of our systems stem from the use of new Ribbon Driver Technology combined with our proprietary horn, woofer, and cabinet designs. With the development of exotic new materials used in the manufacture of our drivers, extreme high outputs are achieved with a fidelity and clarity known only in world-class audiophile speaker systems. The ultra-low distortion and extremely fast transient response of our high frequency drivers result in much less ear fatigue for the listener while reproducing detail that has never before been attained by a professional loudspeaker.



The graphs above illustrate the difference in incoherency distortion between an industry- standard compression driver (left) and the SLS PRD1000 planar magnetic driver (right). The compression driver has a significant amount of distortion generated over the entire frequency range, due to severe breakup modes, reflections, and non-linearity in the throat and in the compression chamber. The PRD1000 ribbon driver on the other hand, is free of 'smear', and is able to respond to transients much more accurately and with much less distortion.

It is with great pride that we present to the professional and commercial audio industry a line of loudspeaker systems that not only provide the necessary clarity for unparalleled speech intelligibility, but also deliver the high SPL output necessary for larger venues at a level of detail that until now, simply wasn't possible.

Our commitment to sonic excellence and our never ending quest for quality will be immediately apparent at first listening. We're sure you will agree that our ribbon equipped speaker systems sound rich, clear and practically transparent.



Planar Ribbon Technology... The Clear Advantage -

John M. Gott Chairman/CEO **SLS International**





Product Technical Data Sheet Model LS9900 / LS9900T

Description

The LS9900 is our flagship full-range tri-amped true line source array module. Its primary application is large venues that require extreme high SPL performance with the ultimate in high fidelity.

The LS9900 high frequency section features two high-performance PRD1000 planar ribbon transducers designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits.

The midrange section uses four 6 ½" drivers that are the same midrange drivers used in the highly acclaimed S1065 and S1266 critical high output studio monitors. The low frequency section uses two high-powered Neo 15" drivers carefully matched to compliment output and coverage of the mid and high frequency devices.

Two versions of the LS9900 are offered, LS9900 for permanent installation and LS9900T for touring applications. The touring version comes standard with a wheel tray and advanced rigging for easier array setup and teardown.

Key Features:

- Direct radiating planar PRD1000 ribbon high frequency line source module delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 90 degree wide horizontal coverage
- Even and easily predictable coverage using our free LASS prediction software
- All array rigging is included
- Splay options from 1 to 5 degrees between boxes in ½ degree increments
- Down-fill complimented by using SLS LS9000 modules
- 3/4" 13 ply Baltic Birch cabinet construction

Applications

Developed for a wide range of high SPL professional applications where the highest quality in sound reinforcement is required.

- High SPL Sound reinforcement in churches and auditoriums
- Professional Portable PA system for a variety of applications



Product Spe	cifications
Operating Range 1	45Hz - 20,000Hz
Sensitivity (1W/1M) Low Freq. 2	99dB ⁵
Mid Freq.	104dB
High Freq.	106dB
Horizontal Coverage Angle -6dB 3	90 Degrees
Vertical Coverage Angle -6dB	Defined by height and configuration of array
Power Handling - Low Freq. 4	1000W (64 Volts) AES/2 5
Mid Freq.	1000W (89 Volts) AES/2
High Freq.	770W (100 Volts) IEC Short Term
	208W (52 Volts) IEC Long Term
	120W (40 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	2000 Watts @ 4 ohms 5
Mid Freq.	2000 Watts @ 8 ohms
High Freq.	800 Watts @ 16 ohms
Max SPL (calculated) 1 Meter - Low Freq.6	129dB Cont. / 135dB Peak 5
Mid Freq.	134dB Cont. / 140dB Peak
High Freq.	129dB Cont. / 135dB Peak
Nominal Impedance - Low Freq.	4 Ohms (two 8 ohm woofers in parallel)
Mid Freq.	8 Ohms
High Freq.	13 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	15" Woofer x 2
Mid Freq.	6.5" Midrange x 4
High Freq.	PRD1000 Ribbon x 2
Input	NL8 x2
	Pair 1 & 2 = LF Pair 3 = MF Pair 4 = HF
Dimensions	17" (43cm) H (front)
	15" (38cm) H (back)
	50" (127cm) W
	21" (53.3cm) D
Enclosure	13ply Baltic Birch
Weight	212lbs (96kg)
Rigging	All array rigging is included
Optional Accessories	RLA/1-BBS Small Rigging Frame 7
	RLA/1-BBL Large Rigging Frame ⁷
	SCLS Speaker Cover
Finish Options	Black Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Both 15" drivers in parallel (NL8 pin pairs 1 and 2).
 Typical SPL for one box only, for array SPL refer to LASS calculations.

 Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term
 RLA1/BBS weighs 64lbs (29kg). RLA1/BBL weighs 152lbs (68.95kg)



LS9900 / LS9900T Drawings



8000 Hz

4000 Hz



Product Technical Data Sheet Model LS9000

Description

The LS9000 is a full-range tri-amped true line source array module. Its primary application is for use as a downfill module with the larger LS9900 series. It is also well suited as a primary module in stand-alone line array designs for systems in medium to large venues. SPL levels of 115dB to 120dB can be obtained in the listening areas with LS9000 arrays.

The LS9000 high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits.

The midrange section uses two 6 ½" drivers that are the same midrange drivers used in the highly acclaimed S1065 and S1266 critical high-output studio monitors. The low frequency section uses four high-powered 8" drivers utilizing a demodulation ring magnet system providing a third less harmonic distortion and reducing inductance modulation by 50 percent. This provides an open and clear sound despite loud listening levels. Both drivers feature a die-cast basket with patented Intercooler system.

Key Features

- Direct radiating planar PRD1000 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual
 PRD1000 high frequency transducers
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 90 degree wide horizontal coverage
- Even and easily predictable coverage using our free LASS prediction software
- All array rigging is included
- Splay options from 1 to 10 degrees between boxes
- ¾" 13 ply Baltic Birch cabinet construction

Applications

Developed for a wide range of professional applications where the highest quality in sound reinforcement is required

- Sound reinforcement in churches and auditoriums
- Professional Portable PA system for a wide variety of applications
- Downfill for LS9900 System



Product Spe	cifications
Operating Range ¹	65Hz - 20,000Hz
Sensitivity (1W/1M) Low Freq. ²	101dB 5
Mid Freq.	100dB
High Freq.	103dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB	Defined by height and configuration of array
Power Handling - Low Freq. 4	1000W (64 Volts) AES/2 5
Mid Freq.	500W (64 Volts) AES/2
High Freq.	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	2000 Watts @ 4 ohms 5
Mid Freq.	1000 Watts @ 8 ohms
High Freq.	400 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.6	131dB Cont. / 137dB Peak 5
Mid Freq.	127dB Cont. / 133dB Peak
High Freq.	123dB Cont. / 129dB Peak
Nominal Impedance - Low Freq.	4 Ohms ⁵
Mid Freq.	8 Ohms
High Freq.	6.5 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	8" Woofer x 4 (wired in two parallel pairs)
Mid Freq.	6.5" Midrange x 2
High Freq.	PRD1000 Ribbon
Input	NL8 x2
	Pair 1 & 2 = LF Pair 3 = MF Pair 4 = HF
Dimensions	9.63" (24.4cm) H (front)
	6.56" (16.67cm) H (back)
	50" (127cm) W
	21" (53.3cm) D
Enclosure	13ply Baltic Birch
Weight	142lbs (64.5kg)
Rigging	All array rigging is included
Optional Accessories	RLA/1-BBS Small Rigging Frame 7
	RLA/1-BBL Large Rigging Frame ⁷
	RC-LS9000 Road Case (holds 2 modules)
Finish Options	Black Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

3. Averaged from 1000Hz to 10kHz

 A. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Both pairs of 8" drivers in parallel (NL8 pin pairs 1 and 2).

6. Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term

7. RLA1/BBS weighs 64lbs (29kg). RLA1/BBL weighs 152lbs (68.95kg)



LS9000 Drawings



TOP

BACK









Product Technical Data Sheet Model LS8800 / LS8800-I

Description

The LS8800 is a full-range bi-amped true line source array module. While compact in size it meets high SPL line array performance requirements for a wide variety of venues. Typical generated listening area SPL can be up to 115dB.

The LS8800 high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits.

The low frequency section uses two high-powered 8" drivers utilizing a demodulation ring magnet system providing a third less harmonic distortion and reducing inductance modulation by 50 percent. This provides an open and clear sound despite loud listening levels. Additionally, the low frequency drivers feature a die-cast basket with a patented Intercooler system.

Key Features

- Direct radiating planar PRD1000 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual
 PRD1000 high frequency transducers
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 110 degree wide horizontal coverage
- Even and easily predictable coverage using our free LASS prediction software.
- All array rigging is included
- Splay options from 1 to 10 degrees between boxes
- ¾" 13 ply Baltic Birch cabinet construction

Applications

- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required
- For permanent sound reinforcement installations in churches, auditoriums, arenas performing arts centers, etc.
- Professional portable PA system for a wide variety of applications



Product Spe	ecifications
Operating Range 1	72Hz - 20,000Hz
Sensitivity (1W/1M) - Low Freq. 2	98dB
High Freq.	103dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle	Defined by height and configuration of the
	array
Power Handling - Low Freq. ⁴	500W (64 Volts) AES/2
High Freq.	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	1000 Watts @ 8 ohms
High Freq.	400 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq. ⁵	125dB Cont. / 131dB Peak
High Freq.	123dB Cont. / 129dB Peak
Nominal Impedance - Low Freq.	8 Ohms
High Freq.	6.5 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	8" Bass/Midrange x 2
High Freq.	PRD1000 Ribbon
Input	NL4 x2 (Pair 1 = LF, Pair 2 = HF)
	Barrier Strip for I versions
Dimensions	9.62" (24.5cm) H (front side)
	7.65" (19.4cm) H (rear side)
	28.25" (71.8cm) W
	13" (33cm) D
Enclosure	13ply Baltic Birch
Weight	60lbs (27.2kg) Shipping 67lbs (30.4kg)
Rigging	All array rigging is included
Optional Accessories	RLA/2-BB - Rigging Frame ⁶
	RC-LS8800 Road case (holds 4 LS8800s)
Finish Options	Black Latex
	White Latex (w/ white rigging)
	Paintable Natural Finish (w/ black rigging)

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

3. Averaged from 1000Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term
 Rigging Frame weight is 37lbs



LS8800 / LS8800-I Drawings



TOP



Polars





Product Technical Data Sheet Model LSB8115 / LSB8115-I

Description

The LSB8115 is a single 15" low-bass/subwoofer line source array module. It is a high SPL compact unit allowing low frequency performance when ground stacking subwoofers are not a solution or when extra low-bass energy is desired from a LS8800 line array.

The box height is exactly double that of the LS8000. The rigging is also designed to match with the LS8800 line array module creating the ability to extend low frequency control for further throw distance and low frequency control.

The LSB8115 is also well suited as a ground stacked stand alone subwoofer when a smaller cabinet size is desired. Under stage low frequency performance is an application example well suited to the design.



Product Specifications	
Operating Range ¹	36Hz - 200Hz
Sensitivity (1W/1M) ²	98dB
Vertical Coverage Angle	Defined by height and configuration of the
	array
Power Handling ³	500W (64 Volts) AES/2
Recommended Amp Power for Max Output	1000 Watts @ 8 ohms
Max SPL (calculated) 1 Meter	125dB Cont. / 131dB Peak
Nominal Impedance	8 Ohms
Crossover Frequency	DSP Settings Provided
Transducer	15" Woofer
Input	NL4 x2 (Pair 1 = LF)
	Barrier Strip on I versions
Dimensions	19.25" (49cm) H (front side)
	15.75" (40cm) H (rear side)
	28.25" (71.8cm) W
	20" (51cm) D
Enclosure	13ply Baltic Birch
Weight	96lbs (43.5kg) Shipping 109lbs (49.4kg)
Rigging	All array rigging is included ³
Optional Accessories	RLA/2-BB - Rigging Frame
	RC-LSB8115 Road Case (holds 2 modules)
Finish Options	Black Latex
	White Latex (w/ white rigging)
	Paintable Natural Finish (w/ black rigging)

Key Features

- High Powered single 15" small format construction
- Rigging compatibility with the LS8800
- Exactly double the height of the LS8800
- Tight and powerful at high SPL due to advanced transducer technology.
- All array rigging is included
- Splay options from 1 to 10 degrees between boxes
- ¾" 13 ply Baltic Birch cabinet

Applications

Developed for low frequency support of the LS8800 line array module as well as stand alone performance

- Line array Low-Frequency support of the LS8800
- Subwoofer for LS8800 flown or stacked
- Under stage subwoofer

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1884 standard. IEC stated in RMS voltage according to IEC 268-5



LSB8115 / LSB8115-I Drawings



FRONT



BACK



Product Technical Data Sheet Model LS7500v2 / LS7500v2-I

Description

The LS7500v2 is a full-range bi-amped true line source array module. While compact in size it meets SPL line array performance requirements for a wide variety of venues. Typical generated listening area SPL will be between 106dB and 111dB.

The LS7500v2 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits.

The low frequency section uses two high-powered Neo motor structure 6.5" drivers for improved midrange performance and power handling.



Product Spe	cifications
Operating Range ¹	80Hz - 20,000Hz
Sensitivity (1W/1M) - Low Freq. ²	95dB
High Freq.	101dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle	Defined by height and configuration of the array
Power Handling - Low Freq. 4	250W (45 Volts) AES/2
High Freq.	145W (32 Volts) IEC Short Term
	46W (18 Volts) IEC Long Term
	35W (15.6 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	500 Watts @ 8 ohms
High Freq.	150 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq. ⁵	119dB Cont. / 125dB Peak
High Freq.	118dB Cont. / 123dB Peak
Nominal Impedance - Low Freq.	8 Ohms
High Freq.	7 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	6.5" Bass/Midrange x2
High Freq.	PRD500 Ribbon
Input	NL4 x2 (Pair 1 = LF, Pair 2 = HF)
	Barrier Strip on I version
Dimensions	7.22" (18.4cm) H (front side)
	4.67" (11.9cm) H (rear side)
	22.44" (58.4cm) W
	17.91" (45.5cm) D
Enclosure	13ply Baltic Birch
Weight	38lbs (17.24kg) Shipping 47lbs (21.3kg)
Rigging	All array rigging is included
Optional Accessories	RLA/4-BB - Rigging Frame 6
	RC.RLA/4 - Road case for (4) LS7500
	RC.RLA/4-6 - Road case for (6) LS7500
Finish Options	Black Latex
	White Latex (w/ white rigging)
	Paintable Natural Finish (w/ black rigging)

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 Averaged from 1000Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term
 Rigging Frame weight is 30lbs

Key Features

- Direct radiating planar PRD500 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual PRD500 high frequency transducers
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 110 degree wide symmetrical horizontal coverage
- Even and easily predictable coverage using our free LASS prediction software.
- All array rigging is included
- Splay options from 1 to 10 degrees between boxes
- ¾" 13 ply Baltic Birch cabinet construction

Applications

- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required
- For permanent sound reinforcement installations in churches, auditoriums, arenas performing arts centers, etc.
- Professional portable PA system for a wide variety of applications



LS7500v2 / LS7500v2-I Drawings





Product Technical Data Sheet Model LS6500 / LS6500-I

Description

The LS6500 is a full-range bi-amped true line source array module. The lightweight compact unit can be used in a wide variety of venues where compact size is a requirement. Typical generated listening area SPL will be up to 106dB.

The LS6500 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits.

The woofer section uses a single high definition $6 \frac{1}{2}$ " driver with parameters calculated to offer a seamless transition to the PRD500 ribbon in typical arrays.

Key Features

- Direct radiating planar PRD500 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual PRD500 high frequency transducers
- Open and clear sound at high SPL due to advanced transducer technology
- 110 degree wide horizontal coverage
- Even and easily predictable coverage using our free LASS prediction software
- All array rigging is included
- Splay options from 1 to 10 degrees between boxes
- ¾" 13 ply Baltic Birch cabinet construction
- Same great performance of our popular LS8695v2 but with the additional capability of splaying the units thereby increasing vertical coverage possibilities

Applications

- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required - especially effective in highly reverberant and/or elongated spaces.
- Sound reinforcement in churches and auditoriums
- Professional Portable PA system for a wide variety of applications



Product Specifications	
Operating Range ¹	85Hz - 20,000Hz
Sensitivity (1W/1M) - Low Freq. ²	91dB
High Freq.	101dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle	Defined by height and configuration of the
	array
Power Handling - Low Freq. ⁴	100W (28 Volts) AES/2
High Freq.	145W (32 Volts) IEC Short Term
	46W (18 Volts) IEC Long Term
	35W (15.6 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	200 Watts @ 8 ohms
High Freq.	150 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.5	111dB Cont. / 117dB Peak
High Freq.	118dB Cont. / 123dB Peak
Nominal Impedance - Low Freq.	8 Ohms
High Freq.	7 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	6.5" Bass/Midrange
High Freq.	PRD500 Ribbon
Input	NL4 x2 (Pair 1 = LF, Pair 2 = HF)
	Barrier strip for I version
Dimensions	7.25" (18.4cm) H (front side)
	5.5" (14cm) H (rear side)
	14" (35.6cm) W
	10" (25.4cm) D
Enclosure	13ply Baltic Birch
Weight	20lbs (9kg) Shipping 26lbs (11.8kg)
Rigging	All array rigging is included
Optional Accessories	RLA/3-BB - Rigging Frame
	RC-LS6500 Road Case (holds 8 LS6500s)
Finish Options	Black Latex
	White Latex (w/ white rigging)
	Paintable Natural Finish (w/ black rigging)

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 100Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term



LS6500 / LS6500-I Drawings



8000Hz

4000Hz

2000Hz



Product Technical Data Sheet Model PLS8695v2

Description

The PLS8695v2 is a full-range true line source array column, which produces an extremely tight vertical sound field. Stacking columns will increase throw distances and produce tighter vertical control at lower frequencies.

A true line source array restricts spreading of sound waves in the vertical plane, producing cylindrical wave radiation that delivers a sound field at a constant height represented by the height of the array.

The PLS8695v2 high frequency module features a continuous array of nine high performance PRD500 planar ribbon transducers designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits. Coupled with eight 6.5" ported woofers, the PLS8695v2 produces full range bandwidth at extremely high sound pressure levels.

Key Features

- Direct radiating planar PRD500 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual PRD500 high frequency transducers
- High resolution composite paper cone woofers
- Cylindrical wave radiation:
 - Produces 3dB loss per doubling of distance as opposed to the 6dB loss of a conventional loudspeaker enclosure. This means increased throw distances with less variation between near and far field.
 - Greatly restricts vertical spreading of sound field, which significantly reduces ceiling and floor reflections – dramatically improving direct to reverberant ratios – resulting in improved speech intelligibility.
- Column array places sound source on the same plane as performers, creating better localization
- Extremely wide horizontal coverage
- Even and easily predictable coverage
- Incredible feedback immunity compared to conventional loudspeakers
- Internal power amplifier with the following features:
- o Bi-amplification of low and high frequency components
 - o Selectable 80Hz HPF
 - o Balanced input with adjustable sensitivity
 - o 24-bit digital resolution, 96kHz sampling
 - o DSP filtering, smoothing, and limiting algorithms matched to LS8695v2
- * LED status indication for power, protect, peak, and signal presence



Applications

- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required - especially effective in highly reverberant and/or elongated spaces
- Sound reinforcement in churches
 and auditoriums
- Portable PA system for a variety of applications
- Stack columns to achieve taller vertical sound field for raked seating applications
- Stacking columns also produces line source behavior at lower frequencies, which increases thrown distance
- Typical system SPL of a stack of two
 PLS8695v2 columns is 115dB at 60'

Product Specifications	
Operating Range 1	70Hz - 20,000Hz
Horizontal Coverage Angle -6dB ²	120 Degrees
Vertical Coverage Angle -6dB	Defined by the height of the array
Input Sensitivity	1.88V RMS
Max SPL (calculated) @ 1 Meter 3	130dB Peak
Amplifier Power Low Freq.	1000 Watts
Amplifier Power High Freq.	500 Watts
AC Power Consumption	11 amps at full rated output
Crossover Frequency	Internal DSP
Transducers - Low Freq.	6.5" Woofers x 8
High Freq.	PRD500 Ribbons x 9
Input	XLR with buffered loop through
Dimensions	55.16" (140cm) H
	11.5" (29.2cm) W
	11" (28cm) D
Enclosure	13ply Baltic Birch
Weight	110lbs (50kg) Shipping 135lbs (61.2kg)
Rigging	16 Points 3/8"/16 threaded inserts
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

- 2. Averaged from 1000Hz to 10kHz
- 3. Typical SPL for one box only, for array SPL refer to LASS calculations.



PLS8695v2 Drawings



8000 Hz

4000 Hz



Product Technical Data Sheet Model LS8695v2 / LS8695v2-I

Description

The LS8695v2 is a bi-amp full-range true line source array column, which produces an extremely tight vertical sound field. Stacking columns will increase throw distances and produce tighter vertical control at lower frequencies.

A true line source array restricts spreading of sound waves in the vertical plane, producing cylindrical wave radiation that delivers a sound field at a constant height represented by the height of the array.

The LS8695v2 high frequency module features a continuous array of nine high performance PRD500 planar ribbon transducers designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits. Coupled with eight ported 6.5" woofers, the LS8695v2 produces full range bandwidth at extremely high sound pressure levels.

The LS8695v2 is suited for portable applications while the LS8695v2-I uses barrier strip inputs for installations.

Key Features

- Direct radiating planar PRD500 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual PRD500 high frequency transducers
- High resolution composite paper cone woofers
- Cylindrical wave radiation:
 - Produces 3dB loss per doubling of distance as opposed to the 6dB loss of a conventional loudspeaker. This means increased throw distances with less variation between near and far field.
 - Greatly restricts vertical spreading of sound field, which significantly reduces ceiling and floor reflections – dramatically improving direct to reverberant ratios – resulting in improved speech intelligibility.
- Column array places sound source on the same plane as performers creating better localization
- Extremely wide horizontal coverage
- Even and easily predictable coverage
- Incredible feedback immunity compared to point source systems



Applications

- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required - especially effective in highly reverberant and/or elongated spaces
- Sound reinforcement in churches
 and auditoriums
- Portable PA system for a variety of applications
- Stack columns to achieve taller vertical sound field for raked seating applications
- Stacking columns also produces line source behavior at lower frequencies, which increases thrown distance
- Typical system SPL of a stack of two LS8695v2 columns is 115dB at 60'

Product Specifications	
Operating Range ¹	70Hz - 20,000Hz
Sensitivity (1W/1M) - Low Freq. ²	100dB
High Freq.	105dB
Horizontal Coverage Angle -6dB ³	120 Degrees
Vertical Coverage Angle	Defined by the height of the array
Power Handling - Low Freq. ⁴	800W (56 Volts) AES/2
High Freq.	1305W (95 Volts) IEC Short Term
	414W (54 Volts) IEC Long Term
	315W (47 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	1600 Watts @ 4 ohms
High Freq.	1300 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq. 5	126dB Cont. / 132dB Peak
High Freq.	131dB Cont. / 136dB Peak
Nominal Impedance - Low Freq.	4 Ohms
High Freq.	7 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	6.5" Woofers x 8
High Freq.	PRD500 Ribbons x 9
LS8695v2 Input	NL4 x2 (Pair 1 = LF, Pair 2 = HF)
LS8695v2-I Input	Barrier Strip
Dimensions	55.16" (140cm) H
	11.5" (29.2cm) W
	11" (28cm) D
Enclosure	13ply Baltic Birch
Weight	110lbs (50kg) Shipping 135lbs (61.2kg)
Rigging	16 Points 3/8"/16 threaded inserts
Optional Accessories	MP8695 Box Coupling/wall mount brackets
	FT8695 Floor stand (max 2 modules)
	RC-LS8695/1 Road case (holds 1 module)
	RC-LS8695/2 Road case (holds 2 modules)
Finish Options	Black Latex
	White Latex (w/ white hardware)
	Paintable Natural Finish (w/ black hardware)

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

absorption and DSP sampling rates in typical PA applications.
2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. Predicting SPL at distance using inverse square law calculations will produce inaccurate results. Use our free LASS software to predict system SPL.

 Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term

1650 W. Jackson Ozark, MO 65721 (417) 883-4549

Averaged from 1000Hz to 10kHz
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



LS8695v2 / LS8695v2-I Drawings



Horizontal Polars















Product Technical Data Sheet Model SP810

Description

The SP810 is a dual 18" high powered subwoofer, specifically designed for use with one or two of the LS8695v2 line columns in a portable setup. It delivers integrated low frequency extension for the LS8695v2 as well as providing a solid support base for the column. The SP810 also includes built in castors and skid plates for self contained portablity.

The built in support rigging puts the bottom of the LS8695v2 cabinets at the correct height and allows the column to be aimed either up or down 2 degrees in 1 degree increments to optimize audience coverage. The SP810 also includes a pole socket mount for use with other model speakers.

The 18" drivers for the SP810 use a Neo magnet structure and hightemperature voice coil with modern manufacturing techniques resulting in a very durable and efficient design.



Key Features:

- Ported front loaded driver design
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated rigging points for one or two LS8695v2 cabinets
- Integrated sub to sub stacking support
- Built in castors and skid plates
- Built in pole socket mount

Product Specifications	
Operating Range 1	33Hz - 200Hz
Sensitivity (1W/1M) ²	102dB
Power Handling ³	1000W (64 Volts) AES/2
Recommended Amp Power for Max Output	2000 Watts @ 4 ohms
Max SPL (calculated) 1 Meter	132dB Cont. / 138dB Peak
Nominal Impedance	4 Ohms
Transducers	2 x 18" Woofers
Input	NL4 x2
	Pair 1 = Woofers 1 & 2
Dimensions	25.5" (64.8cm) H
	38" (96.5cm) W
	37.5" (95.3cm) D
Enclosure	13ply Baltic Birch
Weight	200lbs (90.7kg) Shipping 280lbs (127kg)
Rigging	Built-in attachment points for LS8695v2
Finish Options	Black Latex

Applications

Developed for portable applications where integrated rigging and low frequency support is desired for use with the LS8695v2

- Portable PA with one or two stacked LS8695v2
- Integrated pole socket for use with other models of speakers
- Traditional ground stacked subwoofer clusters

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



SP810 Drawings





Product Technical Data Sheet Model SP820

Description

The SP820 is a dual 18" very high powered subwoofer, specifically designed for use with one or two of the LS8695v2 line columns in a portable setup. It delivers integrated low frequency extension for the LS8695v2 as well as providing a solid support base for the column. The SP820 also includes built in castors and skid plates for self contained portablity.

The built in support rigging puts the bottom of the LS8695v2 cabinets at the correct height and allows the column to be aimed either up or down 2 degrees in 1 degree increments to optimize audience coverage. The SP820 also includes a pole socket mount for use with other model speakers.

The high powered 18" drivers for the SP820 use a Neo magnet structure and high-temperature voice coil with modern manufacturing techniques resulting in a very durable and efficient design.



Key Features:

- Ported front loaded high power driver design
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated rigging points for one or two LS8695v2 cabinets
- Integrated sub to sub stacking support
- Built in castors and skid plates
- Built in pole socket mount

Product Specifications	
Operating Range 1	33Hz - 200Hz
Sensitivity (1W/1M) ²	102dB
Power Handling ³	2000W (89 Volts) AES/2
Recommended Amp Power for Max Output	4000 Watts @ 4 ohms
Max SPL (calculated) 1 Meter	135dB Cont. / 141dB Peak
Nominal Impedance	4 Ohms
Transducers	2 x 18" Woofers
Input	NL4 x2
	Pair 1 = Woofers 1 & 2
Dimensions	25.5" (64.8cm) H
	38" (96.5cm) W
	37.5" (95.3cm) D
Enclosure	13ply Baltic Birch
Weight	200lbs (90.7kg) Shipping 280lbs (127kg)
Rigging	Built-in attachment points for LS8695v2
Finish Options	Black Latex

Applications

Developed for portable applications where integrated rigging and high level low frequency support is desired for use with the LS8695v2

- Portable PA with one or two stacked LS8695v2
- Integrated pole socket for use with other models of speakers
- Traditional ground stacked subwoofer clusters

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



SP820 Drawings





UDIO

SUPERIOR LISTENING SYSTEMS

CLARITY

Product Technical Data Sheet Model LS6593v2

Description

The LS6593v2 line array module represents a breakthrough in high performance compact line array loudspeaker technology. Utilizing patented ribbon planar drivers this unique design concept provides different options for vertical dispersion allowing versatile system configuration for a variety of applications. This modular concept allows for cost effective design solutions by stacking modules as needed to increase vertical coverage, throw distance and low frequency pattern control. It is one of the most flexible and cost effective tools based on modern technology principles available for your designs.

The LS6593v2 concept is based on a woofer line array with a coaxially positioned ribbon tweeter array. The woofer array consists of 6 x $5.25^{"}$ drivers, while the tweeter array consists of 10 x 3" proprietary PRD250 ribbon planar drivers.

Our new upgraded design features include dual NL4 inputs with barrier strip, 12 ohm input impedance, configurable passive/active, (10) PRD250 ribbons for improved high frequency coupling, included coupling plates, and optional SLS provided mounting solutions.

Key Features

- Proprietary planar ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise coupling of transducers
- Cylindrical wave radiation:
 - Produces loss of 3dB loss per doubling of distance in the critical vocal range and above as opposed to the 6dB loss of conventional loudspeakers
 - Greatly restricts vertical spreading of sound field which significantly reduces ceiling and floor reflections – dramatically improving direct to reverberant ratios – resulting in improved speech intelligibility
- The sealed enclosure is made from extruded aluminum with poly-cone woofers and planar ribbon tweeters for use in extreme weather conditions.
- Wide 100 degree horizontal coverage
- Passive/Bi-amp configurable
- Included box to box coupling plates
- Available with a factory installed 60W, 70V transformer



Applications:

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required - especially effective in highly reverberant and/or elongated spaces

- Sound reinforcement in churches, auditoriums, ballrooms
- Paging in difficult acoustic environments such as airports and subways
- Theme Parks
- Stack columns to achieve taller vertical sound field for raked seating applications
- Stacking columns also produces line source behavior at lower frequencies

Product Specifications	
Operating Range ¹	80Hz - 20,000Hz
Sensitivity (1W/1M) - Passive. 2	94dB
Low Freq.	93dB
High Freq.	107dB
Horizontal Coverage Angle -6dB ³	100 Degrees
Vertical Coverage Angle	Defined by the height of the array
Power Handling - Low Freq/Passive ⁴	300W (60 Volts) AES/2
High Freq.	300W (76 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq/Passive	900 Watts @ 8 ohms
High Freq.	900 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Passive ⁵	119dB Cont. / 125dB Peak
Low Freq.	118dB Cont. / 124dB Peak
High Freq.	132dB Cont. / 138dB Peak
Nominal Impedance - Low Freq/Passive	12 Ohms
High Freq.	20 Ohms
Crossover Frequency	1,500Hz (Passive Mode)
Transducers - Low Freq.	5.25" Woofers x 6
High Freq.	PRD250 Ribbons x 10
Input	NL4 x 2 Barrier Strip x 1
Dimensions	32.3" (82cm) H
	7.5" (19.1cm) W
	8.05" (20.4cm) D
Enclosure	Extruded Aluminum
Weight	34.5lbs (15.7kg) Shipping 42lbs (19kg)
Rigging	12 Points 6mm threaded inserts
Optional Accessories	TRANS-LS6593v2 70V 60W xformer
	BRKT-LS6593v2 Wall Mount Bracket
	POLE-LS6593v2 Pole Mount Adaptor
Finish Options	Black Powder Coat
	White Powder Coat

 LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.
 Ful bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. Predicting SPL at distance using inverse square law calculations will produce inaccurate results. Use our free LASS software to predict system SPL.

3. Averaged from 1000Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Typical SPL for one box only, for array SPL refer to LASS calculations.



LS6593v2 Drawings









SUPERIOR LISTENING SYSTEMS

DIO CLARITY REDEFINED

Product Technical Data Sheet Model 2806H / 2806H-I

Description

The 2806H is a bi-amp high output speaker with controlled directivity into the mid-bass frequencies.

The 2806H high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD1000 is mounted on a 80 degree waveguide to match the dispersion of the midrange at crossover.

The midrange section uses dual 8" drivers mounted on a wave guide. The drivers feature a large vented magnet structure with a flux demodulation ring magnet system which divides by 3 the harmonic distortion in the lower frequency domain and reduces the inductance modulation by 50%, leading to a dynamic and stable sound quality.



Product Specifications	
Operating Range ¹	70Hz - 20,000Hz
Sensitivity (1W/1M) - Low Freq. ²	102dB
High Freq.	107dB
Horizontal Coverage Angle -6dB ³	80 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling - Low Freq. ⁴	500W (64 Volts) AES/2
High Freq.	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	1000 Watts @ 8 ohms
High Freq.	400 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.	129dB Cont. / 135dB Peak
High Freq. ⁵	127dB Cont. / 133dB Peak
Nominal Impedance - Low Freq.	8 Ohms
High Freq.	6.5 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	8" Woofer x 2
High Freq.	PRD1000 Ribbon
Input	NL4 x2
Dimensions	35.5" (90cm) H
	19.53" (49.5cm) W
	14.38" (36.5cm) D
Enclosure	13 ply Baltic Birch
Weight	97lbs (44 kg) Shipping 112lbs (50.8kg)
Rigging	12 points (3/8"/16 threaded inserts)
Finish	Black Latex
	White Latex
	Paintable Natural Finish

Key Features:

- PRD1000 ribbon high frequency driver delivers unsurpassed sound quality
- Horn Loaded midrange with high quality dual 8" drivers for increased clarity and punch.
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 80 x 40 degree dispersion pattern
- Integrated fly-points with handles or just the flypoints in the "I" versions

Applications

Developed for high performance PA applications where the highest quality and intelligibility of sound is required

- Portable PA
- Stage Sidefills
- High SPL spot fill
- Engineered Clusters

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

 2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 3. Averaged from 1000Hz to 10kHz

 A.AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 S. Ribbon SPL calculated from IEC long term and short term



2806H Drawings



Polars





Product Technical Data Sheet Model 115RT/115RT-I

Description

The 115RT is a full-range bi-amped high quality 15" two-way loudspeaker enclosure. It serves as a multipurpose device that offers high SPL with very low distortion. Both a portable and installation version are available. The portable 115RT offers handles and a pole socket. The 115RT-I version offers 12 attachments points and barrier strip inputs.

The 115RT high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance.

The PRD1000 is contained within an 80-degree die cast aluminum waveguide that can be rotated 90 degrees within the cabinet.

The low frequency section uses a single high-powered 15" driver designed with a Neo magnet structure and high-temperature voice coil.

An optional passive crossover is available. The PXO crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

Key Features:

- PRD1000 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Integrated rigging points (115RT-I)
- Handles and pole socket for 115RT version
- Optional passive crossover for single amp operation
- 80-degree wide horizontal coverage with rotatable waveguide
- ¾" 13 ply Baltic Birch cabinet

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Sound reinforcement in churches and auditoriums
- Installation systems
- Professional Portable PA system for a wide variety of applications



Product Specifications	
Operating Range 1	46Hz - 20,000Hz
Sensitivity (1W/1M) -Passive ²	97dB
Active - Low Freq.	96dB
Active - High Freq.	107dB
Horizontal Coverage Angle -6dB ³	80 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling - Passive ⁴	500W (64 Volts) AES/2
Active - Low Freq.	500W (64 Volts) AES/2
Active - High Freq.	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Recommended Amp Power for Max Output	
Passive or Bi-amp Low Freq.	1000 Watts @ 8 ohms
High Freq.	400 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.	123dB Cont. / 129dB Peak
High Freq. ⁵	127dB Cont. / 133dB Peak
Nominal Impedance - Passive	8 Ohms
Active - Low Freq.	8 Ohms
Active - High Freq.	6.5 Ohms
Crossover Frequency	1200Hz (PXO option)
Transducers - Low Freq.	15" Woofer
High Freq.	PRD1000 Ribbon
Input	NL4 x2, Barrier Strip on I version
	Pair 1 = LF Pair 2 = HF
	With PXO option Pair 1 = Full Range
Dimensions	33.5 (85cm) H
	20" (50.8cm) W
	15" (38cm) D
Enclosure	13ply Baltic Birch
Weight	79lbs (35.8kg) Shipping 84lbs (38kg)
Rigging (115RT-I Only)	12 points (3/8"/16 threaded inserts)
Optional Accessories	PXO Passive Crossover
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

3. Averaged from 1000Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Ribbon SPL calculated from IEC long term and short term



115RT/115RT-I Drawings





SUPERIOR LISTENING SYSTEMS

Product Technical Data Sheet Model 112RT/112RT-I

Description

The 112RT is a full-range bi-amped high quality 12" two-way design. It serves as a multipurpose loudspeaker enclosure that provides high SPL with very low distortion. Both a portable and installation version are available. The portable 112RT offers handles and a pole socket. The 112RT-I version offers 12 attachment points and barrier strip inputs for installation.

The high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance. The PRD1000 is contained within an 80 degree die cast aluminum waveguide that is rotatable within the cabinet.

The low frequency section uses a single high-powered 12" driver designed with a Neo magnet structure and high-temperature voice coil.

An optional passive crossover is available. The PXO crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

Key Features:

- PRD1000 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Integrated rigging points (112RT-I)
- Handles and pole socket for 112RT version
- Optional passive crossover for single amp operation
- 80 degree wide horizontal coverage with rotatable ribbon
- 3/4" 13 ply Baltic Birch cabinet

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Permanent sound reinforcement systems:
 - Churches 0
 - Auditoriums 0
 - Arenas 0
- Professional Portable PA system for a wide variety of applications



Product Specifications	
Operating Range 1	58Hz - 20,000Hz
Sensitivity (1W/1M) -Passive ²	97dB
Active - Low Freq.	96dB
Active - High Freq.	107dB
Horizontal Coverage Angle -6dB ³	80 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling - Passive ⁴	500W (64 Volts) AES/2
Active - Low Freq.	500W (64 Volts) AES/2
Active - High Freq.	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Recommended Amp Power for Max Output	
Passive or Bi-amp Low Freq.	1000 Watts @ 8 ohms
High Freq.	400 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.	123dB Cont. / 129dB Peak
High Freq. ⁵	127dB Cont. / 133dB Peak
Nominal Impedance - Passive	8 Ohms
Active - Low Freq.	8 Ohms
Active - High Freq.	6.5 Ohms
Crossover Frequency	1200Hz (PXO option)
Transducers - Low Freq.	12" Woofer
High Freq.	PRD1000 Ribbon
Input	NL4 x2 or Barrier Strip on I version
	Pair 1 = LF Pair 2 = HF
	With PXO option Pair 1 = Full Range
Dimensions	28" (71cm) H
	17.25" (44cm) W
	14.5" (37cm) D
Enclosure	13ply Baltic Birch
Weight	52lbs (23.6kg) Shipping 64lbs (29kg)
Rigging (112RT-I Only)	12 points (3/8"/16 threaded inserts)
Optional Accessories	PXO Passive Crossover
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB. HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5 5. Ribbon SPL calculated from IEC long term and short term



112RT/112RT-I Drawings





Product Technical Data Sheet Model 1590

Description

The 1590 is a high quality single 15" two-way passive design. It serves as a multipurpose box that offers solutions for fill coverage, front of house PA and stage monitoring.

The 1590 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide that is rotatable within the cabinet.

The low frequency section uses a single high-powered 15" driver designed with an aluminum basket, neodymium magnet structure and high-temperature edge-wound voice coil.

The 1590 contains an audiophile grade crossover delivering smooth response and consistent polar patterns throughout the crossover region.

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Multi-purpose box design
- Small format
- Handle and pole socket
- 90 degree wide horizontal coverage with rotatable ribbon



Product Specifications	
Operating Range 1	55Hz - 20,000Hz
Sensitivity (1W/1M) ²	96dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB 3	30 Degrees
Power Handling ⁴	300W (49 Volts) AES/2
Recommended Amp Power for Max Output	600 Watts @ 8 ohms
Max SPL (calculated) 1 Meter	121dB Cont. / 127dB Peak
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1500Hz
Transducers - Low Freq.	15" Woofer
High Freq.	PRD500 Ribbon
Input	NL4 x2
Dimensions	30" (76.2cm) H
	19" (48.26cm) W
	13" (33cm) D
Enclosure	13ply Baltic Birch
Weight	55lbs (25kg) Shipping 70lbs (31.6kg)
Rigging	None provided
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications. 2. Full bandwidth pink noise is applied and amplified to a level and

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

 Averaged from 1000Hz to 10kHz
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Front of House PA
- Stage Monitoring



1590 Drawings





Product Technical Data Sheet Model 1590T-I

Description

The 1590T-I is a full-range high quality 15" two-way design with integrated rigging points.

The 1590T-I high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide that is rotatable within the cabinet.

The low frequency section uses a single high-powered 15" driver designed with an aluminum basket, neodymium magnet structure and high-temperature edge-wound voice coil.

Crossovers maintain the high quality using heavy gauge air core inductors and polypropylene capacitors.



Product Specifications		
Operating Bango 1		
Soncitivity (1)//1M) 2	04dP	
Sensitivity (Tw/Tw)2	900B	
Horizontal Coverage Angle -6dB 3	90 Degrees	
Vertical Coverage Angle -6dB 3	30 Degrees	
Power Handling ⁴	300W (49 Volts) AES/2	
Recommended Amp Power for Max Output	600 Watts @ 8 ohms	
Max SPL (calculated) 1 Meter	121dB Cont. / 127dB Peak	
Nominal Impedance	8 Ohms	
Crossover Frequency	Internal Passive 1500Hz	
Transducers - Low Freq.	15" Woofer	
High Freq.	PRD500 Ribbon	
Input	Barrier Strip	
Dimensions	30" (76.2cm) H	
	20" (50.8cm) W	
	15" (38.1cm) D	
Enclosure	13ply Baltic Birch	
Weight	58lbs (26.3kg) Shipping 73lbs (33kg)	
Rigging	12 Points 3/8"/16 Threaded Inserts	
Finish Options	Black Latex	
	White Latex	
	Paintable Natural Finish	

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 100Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Integrated rigging points
- 90 degree wide horizontal coverage with rotatable ribbon
- ¾" 13 ply Baltic Birch cabinet

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Sound reinforcement in churches and auditoriums
- Installation systems



1590T-I Drawings





Product Technical Data Sheet Model 1290

Description

The 1290 is a high quality single 12" two-way passive design. It serves as a multipurpose box that offers solutions for fill coverage, front of house PA and stage monitoring.

The 1290 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide that is rotatable within the cabinet.

The low frequency section uses a single high-powered 12" driver designed with an aluminum basket, neodymium magnet structure and hightemperature edge-wound voice coil.

The 1290 contains an audiophile grade crossover delivering smooth response and consistent polar patterns throughout the crossover region.

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Multi-purpose box design
- Small format
- Handle and pole socket
- 90 degree wide horizontal coverage with rotatable ribbon

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Front of House PA
- Stage Monitoring



Product Specifications	
Operating Range ¹	52Hz - 20,000Hz
Sensitivity (1W/1M) ²	96dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	250W (45 Volts) AES/2
Recommended Amp Power for Max Output	500 Watts @ 8 ohms
Max SPL (calculated) 1 Meter	120dB Cont. / 126dB Peak
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1500Hz
Transducers - Low Freq.	12" Woofer
High Freq.	PRD500 Ribbon
Input	NL4 x2
Dimensions	26.375" (67cm) H
	15.75" (40cm) W
	12" (30.5cm) D
Enclosure	13ply Baltic Birch
Weight	43lbs (19.5kg) Shipping 57lbs (25.9kg)
Rigging	None provided
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



1290 Drawings




Product Technical Data Sheet Model 1290T-I

Description

The 1290T-I is a full-range high quality 12" two-way design with integrated fly points.

The 1290T-I high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide that is rotatable within the cabinet.

The low frequency section uses a single high-powered 12" driver designed with an aluminum basket, neodymium magnet structure and high-temperature edge-wound voice coil.

Crossovers maintain the high quality using heavy gauge air core inductors and polypropylene capacitors.



Product Spe	ecifications
Operating Range 1	52Hz - 20,000Hz
Sensitivity (1W/1M) ²	96dB
Horizontal Coverage Angle -6dB 3	90 Degrees
Vertical Coverage Angle -6dB 3	30 Degrees
Power Handling ⁴	250W (45 Volts) AES/2
Recommended Amp Power for Max Output	500 Watts @ 8 ohms
Max SPL (calculated) 1 Meter	120dB Cont. / 126dB Peak
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1500Hz
Transducers - Low Freq.	12" Woofer
High Freq.	PRD500 Ribbon
Input	Barrier Strip
Dimensions	28" (71cm) H
	17.25" (44cm) W
	14.5 (37cm) D
Enclosure	13ply Baltic Birch
Weight	46lbs (20.9kg) Shipping 63lbs (28.6kg)
Rigging	12 Points 3/8"/16 Threaded Inserts
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Integrated rigging points
- 90 degree wide horizontal coverage with rotatable ribbon
- ¾" 13 ply Baltic Birch cabinet

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 100Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Sound reinforcement in churches and auditoriums
- Installation systems



1290T-I Drawings



Polars





Product Technical Data Sheet Model 8290

Description

The 8290 a full-range passive high quality dual 8" design. It serves as a multipurpose portable PA box that offers a small format with maximum SPL. The multi-angle cabinet allows for use as a stage monitor as well.

The 8290 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide.



Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Multi-angle cabinet for house or stage monitor use
- Included rubber feet for stage monitor use
- Rotatable Ribbon
- Handle and pole socket
- 90 degree wide horizontal coverage
- 3/4" 13 ply Baltic Birch cabinet

Product Spe	ecifications
Operating Range 1	55Hz - 20,000Hz
Sensitivity (1W/1M) ²	96dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	200W RMS (40 Volts) AES/2
Max SPL (calculated) 1 Meter	119dB Cont. / 125dB Peak
Recommended Amp Power for Max Output	400 Watts @ 8 ohms
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1600Hz
Transducers - Low Freq.	8" Bass/Midrange x2
High Freq.	PRD500 Ribbon
Input	NL4 x2
Dimensions	29.75" (75.6cm) H
	11.63" (29.5cm) W
	12.1" (30.7cm) D
Enclosure	13ply Baltic Birch
Weight	43lbs (19.5kg) 51lbs (23kg)
Rigging	No rigging points provided
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Portable PA
- Multi-Media Installations
- . Stage Monitor

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



8290 Drawings



1650 W. Jackson Ozark, MO 65721 (417) 883-4549



Product Technical Data Sheet Model 8290T-I

Description

The 8290T-I is a full-range passive high quality dual 8" two-way design. It serves as a installation box that offers a small format with maximum SPL.

The 8290T-I high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide.

The crossover maintains the high quality using heavy gauge air core inductors and polypropylene capacitors.



Product Spe	ecifications
Operating Range ¹	58Hz - 20,000Hz
Sensitivity (1W/1M) ²	96dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	200W RMS (40 Volts) AES/2
Max SPL (calculated) 1 Meter	119dB Cont. / 125dB Peak
Recommended Amp Power for Max Output	400 Watts @ 8 ohms
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1600Hz
Transducers - Low Freq.	8" Bass/Midrange x2
High Freq.	PRD500 Ribbon
Input	Barrier Strip
Dimensions	29.75" (75.6cm) H
	12" (30.5cm) W
	13.5" (34.4cm) D
Enclosure	13ply Baltic Birch
Weight	40lbs (18kg) Shipping 48lbs (21.8kg)
Rigging	14 Points 3/8"/16 Threaded Inserts
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Integrated rigging points
- 90 degree wide horizontal coverage
- ¾" 13 ply Baltic Birch cabinet

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Choir Monitoring
- Installation spot fills



8290T-I Drawings



Polars



1650 W. Jackson Ozark, MO 65721 (417) 883-4549



Product Technical Data Sheet Model T28R

Description

The T28R is a full-range extremely high quality dual 8" two-way design. It serves as a multipurpose portable loudspeaker that provides very low distortion with a wide horizontal dispersion in a small enclosure.

The T28R high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 110 degree die cast aluminum waveguide that can be rotated 90 degrees within the cabinet.

The low frequency section uses two 8" drivers identical to our highly acclaimed S8R studio monitors. These drivers offer the best balance between maximum performance and the SPL capability for live applications.

The crossover maintains the high quality using heavy gauge air core inductors and polypropylene capacitors.

Product Specifications	
Operating Range ¹	54Hz - 20,000Hz
Sensitivity (1W/1M) ²	93dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	250W RMS (31.6 Volts) AES/2
Max SPL (calculated) 1 Meter	117dB Cont. / 123dB Peak
Recommended Amp Power for Max Output	500 Watts @ 4 ohms
Nominal Impedance	4 Ohms
Crossover Frequency	Internal Passive 1500Hz
Transducers - Low Freq.	8" Bass/Midrange x2
High Freq.	PRD500 Ribbon
Input	NL4 x2
Dimensions	29.75" (75.6cm) H
	12" (30.5cm) W
	13.5" (34.3cm) D
Enclosure	13ply Baltic Birch
Weight	40lbs (18kg) Shipping 48lbs (21.8kg)
Rigging	12 Points 3/8"/16 Threaded Inserts
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Dual 8" studio quality low frequency drivers
- Handles and pole socket
- 110 degree wide horizontal coverage with rotatable ribbon
- ¾" 13 ply Baltic Birch cabinet

LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

• The ultimate in Portable PA for moderate SPL requirements

Rev: 805



T28R Drawings





Product Technical Data Sheet Model T28R-I

Description

The T28R-I is a full-range extremely high quality dual 8" two-way design with integrated rigging points. It serves as a multipurpose installation loudspeaker that provides very low distortion with wide horizontal coverage in a small enclosure.

The T28R-I high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 110 degree die cast aluminum waveguide that can be rotated 90 degrees within the cabinet.

The low frequency section uses two 8" drivers identical to our highly acclaimed S8R studio monitors. These drivers offer the best balance between maximum performance and the SPL capability for live applications.

The crossover maintains the high quality using heavy gauge air core inductors and polypropylene capacitors.

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Dual 8" studio quality low frequency drivers
- Integrated rigging points
- 110 degree wide horizontal coverage with rotatable ribbon
- ¾" 13 ply Baltic Birch cabinet



Product Specifications	
Operating Range ¹	54Hz - 20,000Hz
Sensitivity (1W/1M) ²	93dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	250W RMS (31.6 Volts) AES/2
Max SPL (calculated) 1 Meter	117dB Cont. / 123dB Peak
Recommended Amp Power for Max Output	500 Watts @ 4 ohms
Nominal Impedance	4 Ohms
Crossover Frequency	Internal Passive 1500Hz
Transducers - Low Freq.	8" Bass/Midrange x2
High Freq.	PRD500 Ribbon
Input	Barrier Strip
Dimensions	29.75" (75.6cm) H
	12" (30.5cm) W
	13.5" (34.4cm) D
Enclosure	13ply Baltic Birch
Weight	40lbs (18kg) Shipping 48lbs (21.8kg)
Rigging	14 Points 3/8"/16 Threaded Inserts
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

• The ultimate in installation PA for moderate SPL requirements



T28R-I Drawings



Polars





Product Technical Data Sheet Model 8190v2

Description

The 8190v2 s a high quality single 8" two-way passive design. It serves as a multipurpose box that offers solutions for fill coverage, small format PA and stage monitoring.

The 8190v2 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide that is rotatable within the cabinet.

The 8190v2 contains an improved woofer with greater sensitivity and power handling resulting in a 6dB louder design over the original 8190.



Product Specifications	
Operating Range 1	62Hz - 20,000Hz
Sensitivity (1W/1M) ²	95dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	225W RMS (42 Volts) AES/2
Max SPL (calculated) 1 Meter	119dB Cont. / 125dB Peak
Recommended Amp Power for Max Output	450 Watts @ 8 Ohms
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1800Hz
Transducers - Low Freq.	8" Bass/Midrange
High Freq.	PRD500 Ribbon
Input	NL4 x2
Dimensions	18.5" (47cm) H
	11.5" (29.5cm) W
	10.5" (27.6cm) D
Enclosure	13ply Baltic Birch
Weight	23lbs (10.4kg) Shipping 29lbs (13kg)
Rigging	Non Provided
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Multi-purpose box design
- Small format
- Handle and pole socket
- 90 degree wide horizontal coverage with rotatable ribbon

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Small format PA
- Stage Monitoring
- Front Fill

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



8190v2 Drawings





TOP



FRONT



BACK

Polars





Product Technical Data Sheet Model 8190Tv2-I

Description

The 8190Tv2-I is a high quality single 8" two-way passive design. It serves as a multipurpose box that offers solutions for fill coverage and small format PA.

The 8190Tv2-I high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide that is rotatable within the cabinet.

The 8190Tv2-I contains an improved woofer with greater sensitivity and power handling resulting in a 6dB louder design over the original 8190T-I.

The 8190Tv2-I contains an audiophile grade crossover delivering smooth response and consistent polar patterns throughout the crossover region.

Rigging points are provided as well as mounting options for 3rd party wall and ceiling mount brackets.

Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Small format
- Rigging points and wall/ceiling bracket attachment points
- 90 degree wide horizontal coverage with rotatable ribbon



Product Specifications	
Operating Range 1	70Hz - 20,000Hz
Sensitivity (1W/1M) ²	95dB
Horizontal Coverage Angle -6dB ³	90 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling ⁴	225W RMS (42 Volts) AES/2
Max SPL (calculated) 1 Meter	119dB Cont. / 125dB Peak
Recommended Amp Power for Max Output	450 Watts @ 8 Ohms
Nominal Impedance	8 Ohms
Crossover Frequency	Internal Passive 1800Hz
Transducers - Low Freq.	8" Bass/Midrange
High Freq.	PRD500 Ribbon
Input	Barrier Strip
Dimensions	18.5" (46.9cm) H
	11.75" (29.8cm) W
	8.5" (21.6cm) D
Enclosure	13ply Baltic Birch
Weight	25lbs (11.3kg) Shipping 31lbs (14kg)
Rigging	12 Points 3/8"/16 Threaded Inserts
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Small format installation PA
- Spot fills in larger systems
- Choir Monitoring

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10KHz

 A. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



8190Tv2-I Drawings



Polars





Product Technical Data Sheet Model 2403

Description

The 2403 is a high quality dual 4.5" two-way design. It serves as a multipurpose box that offers solutions for fill coverage and monitoring.

The 2403's dual woofers and 3 inch ribbon share the same bolt patterns so they are interchangeable for creating different baffle mounting configurations. The ribbon driver is also rotatable to change the coverage of the system.

An audiophile grade crossover aids the components in delivering smooth response and consistent polar patterns.



Product Specifications	
Operating Range 1	100Hz - 20,000Hz
Sensitivity (1W/1M) ²	91dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle -6dB ³	50 Degrees
Power Handling ⁴	80W RMS (18 Volts) AES/2
Max SPL (calculated) 1 Meter	110dBCont. / 116dB Peak
Recommended Amp Power for Max Output	160 Watts @ 4 Ohms
Nominal Impedance	4 Ohms
Crossover Frequency	Internal Passive 2300Hz
Transducers - Low Freq.	4.5" Bass/Midrange x2
High Freq.	3" Ribbon
Input	Terminal Strip
Dimensions	16.75" (42.4cm) H
	6.95" (17.6cm) W
	6.13" (15.6cm) D
Enclosure	MDF
Weight	13lbs (6.1kg) Shipping 18lbs (8kg)
Rigging	4 Points 1/4"/20 Threaded Inserts
Optional Accessories	Internal 30Watt 70V Transformer
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Key Features:

- 3" high frequency ribbon delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Rigging points for U-brackets to facilitate vertical or horizontal yoke mounting on 16" stud centers.
- 110 degree wide horizontal coverage with rotatable ribbon
- Optional 30-Watt internal 70V transformer

1. LF at -10dB, HF -6dB at 25kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- Underbalcony
- . Choir Monitoring
- . Front Fill
- . Home Theater surround systems
- Home Theater Center Channel



2403 Drawings





Product Technical Data Sheet Model 2413

Description

The 2403 is a high quality dual 4.5" two-way design. It serves as an in-stair installation enclosure with an optional back box

The 2403's dual woofers and 3 inch ribbon share the same bolt patterns so they are interchangeable for creating different baffle mounting configurations. The ribbon driver is also rotatable to change the coverage of the system.

An audiophile grade crossover aids the components in delivering smooth response and consistent polar patterns.



Product Specifications	
Operating Range ¹	100Hz - 20,000Hz
Sensitivity (1W/1M) ²	91dB
Horizontal Coverage Angle -6dB ³	50 Degrees
Vertical Coverage Angle -6dB ³	110 Degrees
Power Handling ⁴	80W RMS (18 Volts) AES/2
Max SPL (calculated) 1 Meter	110dBCont. / 116dB Peak
Recommended Amp Power for Max Output	160 Watts @ 4 Ohms
Nominal Impedance	4 Ohms
Crossover Frequency	Internal Passive 2300Hz
Transducers - Low Freq.	4.5" Bass/Midrange x2
High Freq.	3" Ribbon
Input	Terminal Strip
Dimensions	5.375" (13.65cm) H
	14.375" (36.51cm) W
	7.625" (19.37cm) D
Enclosure	MDF
Weight	13lbs (6.1kg) Shipping 18lbs (8kg)
Optional Accessories	Internal 30Watt 70V Transformer
	2413-BB In-stair Backbox
Optional Backbox Dimensions	5.5" (13.97cm) H
	16.75" (42.55cm) W
	11.25" (28.58cm) D

Key Features:

- 3" high frequency ribbon delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Front Baffle size designed for in-stair applications
- Optional back box
- Optional 30W 70V transformer
- 110 degree wide vertical coverage, 50 degree horizontal in typical orientation

Applications

Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required

- In-stair frontfill
- In-wall choir fill
- In-wall Home Theater

 LF at -10dB, HF -6dB at 25kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.
 Full bandwidth pink noise is applied and amplified to a level and

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.

3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5







Product Technical Data Sheet Model 212EL

Description

The 212EL is a dual 12" high powered vented loudspeaker, designed for low bass and subwoofer applications. It delivers maximized performance in a small enclosure.

The 12" drivers for the 212EL use a Neo magnet structure and a high-temperature voice coil.



Key Features:

- Ported front loaded driver design for high sensitivity and transient response
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated rigging points

Product Specifications	
Operating Range 1	42Hz- 800Hz
Sensitivity (1W/1M) ²	100dB
Power Handling ³	1000W (64 Volts) AES/2
Recommended Amp Power for Max Output	2000 Watts @ 4 ohms
Max SPL (calculated) 1 Meter	130dB Cont. / 136dB Peak
Nominal Impedance	4 Ohms
Transducers	2 x 12" Woofers
Input	NL4 x2
	Pair 1 = Woofers 1 & 2
Dimensions	29" (74cm) H
	18" (46cm) W
	22.44" (57cm) D
Enclosure	13ply Baltic Birch
Weight	58lbs (26.3kg) Shipping 90lbs (40.8kg)
Rigging	16 points (3/8"/16 threaded inserts)
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Applications

Developed for a wide range of professional applications where the highest quality is required

- Portable PA
- Ideally sized for steered bass array applications
- Flown to supplement main clusters
- Installation under stages
- Placed between two full range boxes as part of an engineered cluster design

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



212EL Drawings



FRONT

SIDE

BACK



Product Technical Data Sheet Model 115EL

Description

The 115EL is a single 15" subwoofer. It provides maximized performance in a small enclosure size while still providing excellent low frequency extension.

The 15" driver in the 115EL uses a Neo magnet structure and a high-temperature voice coil.



Key Features:

- Ported front loaded driver design
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated rigging points

Operating Range 1	37Hz- 800Hz
Sensitivity (1W/1M) ²	98dB
Power Handling ³	500W (64 Volts) AES/2
Recommended Amp Power for Max Output	1000 Watts @ 8 ohms
Max SPL (calculated) 1 Meter	125dB Cont. / 131dB Peak
Nominal Impedance	8 Ohms
Transducer	15" Woofer
Input	NL4 x2
Dimensions	23" (58cm) H
	22" (56cm) W
	23.5" (60cm) D
Enclosure	13ply Baltic Birch
Weight	65lbs (29.5kg) Shipping 92lbs (41.7kg)
Rigging	16 points (3/8"/16 threaded inserts)
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish
	Paintable Natural Finish

Product Specifications

Applications

Developed for a wide range of professional applications where the highest quality is required

- Portable PA
- Installation under stages
- Flown to supplement main clusters
- Placed between two full range boxes as part of an engineered cluster design

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



115EL Drawings



BOTTOM

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Product Technical Data Sheet Model 215EL

Description

The 215EL is a dual 15" high powered vented loudspeaker, designed for low bass and subwoofer applications.

The 15" drivers for the 215EL use a Neo magnet structure and a high-temperature voice coil.

Key Features:

- Ported front loaded driver design with dual woofer chambers
- 13-ply Baltic Birch cabinets
- Extensive internal bracing
- Integrated rigging points

Applications

Developed for a wide range of professional applications where the highest quality is required

- Portable PA
- Installation under stages
- Flown to supplement main clusters
- Placed between two full range boxes as part of an engineered cluster design



Product Specifications	
Operating Range 1	37Hz- 800Hz
Sensitivity (1W/1M) ²	101dB
Power Handling ³	1000W (64 Volts) AES/2
Recommended Amp Power for Max Output	2000 Watts @ 4 ohms
Max SPL (calculated) 1 Meter	131dB Cont. / 137dB Peak
Nominal Impedance	4 Ohms
Transducers	2 x 15" Woofers
Input	NL4 x2
	Pair 1 = Woofers 1 & 2
Dimensions	45.31" (115cm) H
	22" (56cm) W
	23.5" (60cm) D
Enclosure	13ply Baltic Birch
Weight	105lbs (47.6kg) Shipping 180lbs (81.7kg)
Rigging	16 points (3/8"/16 threaded inserts)
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



215EL Drawings





Product Technical Data Sheet Model 118EL

Description

The 118EL is a single 18" subwoofer. It provides maximized performance in a small enclosure size while still providing excellent low frequency extension.

The 18" driver for the 118EL uses a Neo magnet structure and a high-temperature voice coil.



Key Features:

- Ported front loaded driver design
- 13-ply Baltic Birch cabinets
- Extensive internal bracing
- Integrated rigging points

Applications

Developed for a wide range of professional applications where the highest quality is required

- Portable PA
- Installation under stages
- Flown to supplement main clusters
- Placed between two full range boxes as part of an engineered cluster design

Operating Range 1	34Hz - 400Hz
Sensitivity (1W/1M) ²	99dB
Power Handling ³	500W (64 Volts) AES/2
Recommended Amp Power for Max Output	1000 Watts @ 8 ohms
Max SPL (calculated) 1 Meter	126dB Cont. / 132dB Peak
Nominal Impedance	8 Ohms
Transducer	18" Woofer
Input	NL4 x2
Dimensions	25" (64cm) H
	25" (64cm) W
	25.3" (65cm) D
Enclosure	13ply Baltic Birch
Weight	68lbs (30.8kg) Shipping 108lbs (49kg)
Rigging	16 points (3/8"/16 threaded inserts)
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

Product Specifications

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers norminal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



SUPERIOR LISTENING SYSTEMS

118EL Drawings





Product Technical Data Sheet Model 118XEL

Description

The 118XEL is a single 18" subwoofer. It is a high performance front loaded vented box design with maximized low frequency extension.

The 18" driver for the 118XEL uses a Neo magnet structure, a high-temperature voice coil and is rated at 1000W RMS.

Key Features:

- Ported front loaded driver design
- Extended low frequency response
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated rigging points
- 1000W RMS 18" Driver

Applications

Developed for a wide range of professional applications where the highest quality is required

- Portable PA
- Installation under stages
- Flown to supplement main clusters
- Placed between two full range boxes as part of an engineered cluster design



Product Specifications		
Operating Range 1	29Hz - 200Hz	
Sensitivity (1W/1M) ²	99dB	
Power Handling ³	1000W (89 Volts) AES/2	
Recommended Amp Power for Max Output	2000 Watts @ 8 ohms	
Max SPL (calculated) 1 Meter	129dB Cont. / 135dB Peak	
Nominal Impedance	8 Ohms	
Transducer	18" Woofer	
Input	NL4 x2	
Dimensions	30" (76cm) H	
	25" (64cm) W	
	27.5" (70cm) D	
Enclosure	13ply Baltic Birch	
Weight	100lbs (45kg) Shipping 131lbs (59kg)	
Rigging	16 points (3/8"/16 threaded inserts)	
Finish Options	Black Latex	
	White Latex	
	Paintable Natural Finish	

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



118XEL Drawings







FRONT



SIDE

BACK



Product Technical Data Sheet Model 218EL

Description

The 218EL is a dual 18" high powered vented loudspeaker, designed for subwoofer applications. It delivers maximized performance and excellent low frequency extension.

The 18" drivers for the 218EL use a Neo magnet structure and high-temperature voice coil.

Key Features:

- Ported front loaded driver design with dual woofer chambers
- 13-ply Baltic Birch cabinets
- Extensive internal bracing
- Integrated rigging points

Applications

Developed for a wide range of professional applications where the highest quality is required

- Portable PA
- Installation under stages
- Flown to supplement main clusters



Product Specifications		
Operating Range 1	34Hz - 400Hz	
Sensitivity (1W/1M) ²	102dB	
Power Handling ³	1000W (64 Volts) AES/2	
Recommended Amp Power for Max Output	2000 Watts @ 4 ohms	
Max SPL (calculated) 1 Meter	132dB Cont. / 138dB Peak	
Nominal Impedance	4 Ohms	
Transducers	2 x 18" Woofers	
Input	NL4 x2	
	Pair 1 = Woofers 1 & 2	
Dimensions	48" (122cm) H	
	25" (64cm) W	
	25.3" (65cm) D	
Enclosure	13ply Baltic Birch	
Weight	126lbs (57kg) Shipping 196lbs (89kg)	
Rigging	16 points (3/8"/16 threaded inserts)	
Finish Options	Black Latex	
	White Latex	
	Paintable Natural Finish	

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



218EL Drawings



FRONT

SIDE

BACK



Product Technical Data Sheet Model SP1000

Description

The SP1000 is a dual 18" portable subwoofer. It includes built in castors and skid plates for self contained portability. In addition, the skid plates provide stacking support by mating top to bottom when the SP1000 is stacked into ground clusters.

The SP1000 uses an integrated pole socket mount so any speaker with a pole mount type adaptor can be used with the subwoofer.

The 18" drivers for the SP1000 use a Neo magnet structure and hightemperature voice coil with modern manufacturing techniques resulting in a very durable and efficient design.



Key Features:

- Ported front loaded driver design
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated sub to sub stacking support
- Built in castors and skid plates
- Built in pole socket mount

Product Specifications		
Operating Range 1	33Hz - 200Hz	
Sensitivity (1W/1M) ²	102dB	
Power Handling ³	1000W (64 Volts) AES/2	
Recommended Amp Power for Max Output	2000 Watts @ 4 ohms	
Max SPL (calculated) 1 Meter	132dB Cont. / 138dB Peak	
Nominal Impedance	4 Ohms	
Transducers	2 x 18" Woofers	
Input	NL4 x2	
	Pair 1 = Woofers 1 & 2	
Dimensions	20.97" (53.3cm) H	
	38" (96.5cm) W	
	37.5" (95.3cm) D	
Enclosure	13ply Baltic Birch	
Weight	180bs (81.7kg) Shipping 260lbs (117.9kg)	
Rigging	None Provided	
Finish Options	Black Latex	

Applications

Developed for portable applications where integrated rigging and low frequency support is desired

- Portable PA
- Integrated pole socket
- Traditional ground stacked subwoofer clusters

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



SP1000 Drawings





ТОР







FRONT

SIDE

BACK



BOTTOM



Product Technical Data Sheet Model SP2000

Description

The SP2000 is a high SPL dual 18" portable subwoofer. It includes built in castors and skid plates for self contained portability. In addition, the skid plates provide stacking support by mating top to bottom when the SP2000 is stacked into ground clusters.

The SP2000 uses an integrated pole socket mount so any speaker with a pole mount type adaptor can be used with the subwoofer.

The very high power 18" drivers for the SP2000 use a Neo magnet structure and high-temperature voice coil with modern manufacturing techniques resulting in a very durable and efficient design.



Key Features:

- Ported front loaded high power driver design
- 13-ply Baltic Birch cabinet
- Extensive internal bracing
- Integrated sub to sub stacking support
- Built in castors and skid plates
- Built in pole socket mount

Product Specifications		
Operating Range ¹	33Hz - 200Hz	
Sensitivity (1W/1M) ²	102dB	
Power Handling ³	2000W (89 Volts) AES/2	
Recommended Amp Power for Max Output	4000 Watts @ 4 ohms	
Max SPL (calculated) 1 Meter	135dB Cont. / 141dB Peak	
Nominal Impedance	4 Ohms	
Transducers	2 x 18" Woofers	
Input	NL4 x2	
	Pair 1 = Woofers 1 & 2	
Dimensions	20.97" (53.3cm) H	
	38" (96.5cm) W	
	37.5" (95.3cm) D	
Enclosure	13ply Baltic Birch	
Weight	180bs (81.7kg) Shipping 260lbs (117.9kg)	
Rigging	None Provided	
Finish Options	Black Latex	

Applications

Developed for portable applications where integrated rigging and high level low frequency support is desired

- Portable PA
- Integrated pole socket
- Traditional ground stacked subwoofer clusters

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



SP2000 Drawings





ТОР







FRONT

SIDE

BACK



BOTTOM



Product Technical Data Sheet Model 115RM

Description

The 115RM is a full-range bi-amped high quality 15" stage monitor that offers high SPL at very low distortion.

The 115RM high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance. The PRD1000 is contained within an 80-degree die cast aluminum waveguide that can be rotated 90 degrees within the cabinet.

The rotatable ribbon provides an option to maximize the monitoring coverage area. An 80-degree horizontal pattern for wide left to right monitoring allows for multiple performers or for a single performer to move left to right while maintaining vertical control of sound coverage. An 80-degree vertical pattern allows a single performer to move up and down stage while maintaining tight horizontal control of sound coverage.

The low frequency section uses a single high-powered 15" driver designed with a Neo magnet structure and high-temperature voice coil.

An optional passive crossover is available. The PXO crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

Key Features:

- PRD1000 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Rotatable ribbon for maximized monitoring coverage area
- Optional passive crossover for single amp operation
- 34" 13 ply Baltic Birch cabinet



Product Specifications	
Operating Range 1	48Hz - 20,000Hz
Sensitivity (1W/1M) -Passive ²	97dB
Active - Low Freq.	96dB
Active - High Freq.	107dB
Horizontal Coverage Angle -6dB 3	80 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling - Passive 4	500W (64 Volts) AES/2
Active - Low Freq.	500W (64 Volts) AES/2
Active - High Freq.	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Recommended Amp Power for Max Output	
Passive or Bi-amp Low Freq.	1000 Watts @ 8 ohms
High Freq.	400 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.	123dB Cont. / 129dB Peak
High Freq. ⁵	127dB Cont. / 133dB Peak
Nominal Impedance - Passive	8 Ohms
Active - Low Freq.	8 Ohms
Active - High Freq.	6.5 Ohms
Crossover Frequency	1200Hz (PXO option)
Transducers - Low Freq.	15" Woofer
High Freq.	PRD1000 Ribbon
Input	NL4 x2
	Pair 1 = LF Pair 2 = HF
	With PXO option Pair 1 = Full Range
Dimensions	17.75" (45cm) H
	33" (84cm) W
	19" (48cm) D
Enclosure	13ply Baltic Birch
Weight	79lbs (35.8kg) Shipping 104lbs (47kg)
Rigging	No rigging points provided
Optional Accessories	PXO Passive Crossover
Finish Options	Black Latex
	White Latex
	Paintable Natural Finish

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

 2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 3. Averaged from 1000Hz to 10kHz

 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 Ribbon SPL calculated from IEC long term and short term

Applications

Developed for professional stage monitoring applications where the highest quality and intelligibility of sound is required

• High quality / High SPL live music performances



115RM Drawings



TOP



RIGHT SIDE

-19.00-


Product Technical Data Sheet Model 112RM

Description

The 112RM is a full-range bi-amped high quality 12" stage monitor that offers high SPL with very low distortion.

The 112RM high frequency section features a high performance PRD1000 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance. The PRD1000 is contained within an 80-degree die cast aluminum waveguide that can be rotated 90 degrees within the cabinet.

The rotatable ribbon provides an option to maximize monitoring coverage area. An 80-degree horizontal pattern for wide left to right monitoring allows for multiple performers or for a single performer to move left to right while maintaining vertical control of sound coverage. An 80-degree vertical pattern allows a single performer to move up and down stage while maintaining tight horizontal control of sound coverage.

The low frequency section uses a single high-powered 12" driver designed with a Neo magnet structure and high-temperature voice coil.

An optional passive crossover is available. The PXO crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

Key Features:

- PRD1000 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Optional passive crossover for single amp operation
- Rotatable ribbon for optimized coverage
- ¾" 13 ply Baltic Birch cabinet

Applications

Developed for professional stage monitoring applications where the highest quality and intelligibility of sound is required

• High quality / High SPL live music performances



Product Specifications		
Operating Range 1	58Hz - 20,000Hz	
Sensitivity (1W/1M) -Passive ²	97dB	
Active - Low Freq.	96dB	
Active - High Freq.	107dB	
Horizontal Coverage Angle -6dB ³	80 Degrees	
Vertical Coverage Angle -6dB ³	30 Degrees	
Power Handling - Passive 4	500W (64 Volts) AES/2	
Active - Low Freq.	500W (64 Volts) AES/2	
Active - High Freq.	385W (50 Volts) IEC Short Term	
	104W (26 Volts) IEC Long Term	
	60W (20 Volts) AES/2	
Recommended Amp Power for Max Output		
Passive or Bi-amp Low Freq.	1000 Watts @ 8 ohms	
High Freq.	400 Watts @ 8 ohms	
Max SPL (calculated) 1 Meter - Low Freq.	123dB Cont. / 129dB Peak	
High Freq. ⁵	127dB Cont. / 133dB Peak	
Nominal Impedance - Passive	8 Ohms	
Active - Low Freq.	8 Ohms	
Active - High Freq.	6.5 Ohms	
Crossover Frequency	1200Hz (PXO option)	
Transducers - Low Freq.	12" Woofer	
High Freq.	PRD1000 Ribbon	
Input	NL4 x2	
	Pair 1 = LF Pair 2 = HF	
	With PXO option Pair 1 = Full Range	
Dimensions	15.65" (40cm) H	
	30" (76cm) W	
	16" (41cm) D	
Enclosure	13ply Baltic Birch	
Weight	54lbs (24.5kg) Shipping 79lbs (35.8kg)	
Rigging	No rigging points provided	
Optional Accessories	PXO Passive Crossover	
Finish Options	Black Latex	
	White Latex	
	Paintable Natural Finish	

1. LF at -10dB, HF -6dB at 30kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10KHz

 A.AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 S. Ribbon SPL calculated from IEC long term and short term



112RM Drawings



TOP





LEFT SIDE

FRONT

RIGHT SIDE



Product Tech Data Sheet Model CM141CC

Description

The CM141CC is intended for background music playback where a very small and elegant finish enclosure is desired.

The high frequency section features a high performance coax mounted PRD100 planar ribbon transducer designed by SLS Loudspeakers. The unique design and properties of this ribbon driver allows for an extremely accurate high frequency presentation. It is mounted in front of a high quality 4" polycone woofer.

As an option the CM832JB junction box can be used to power four CM141CC units as a single 8 ohm load or as a single 70V 160W tap (32 ohm loading). Either of these wiring solutions bypass the need for performance degrading 70V transformers.

For extended range operation the CM Series subwoofers should be used. These subwoofers also provide a high pass and low pass crossover network, 8 ohm series parallel wiring for the CM141CC and an optional internal 70V 60W transformer.

Key Features

- High quality polycone 4" woofer
- Coax mounted direct radiating planar PRD100 ribbon high frequency line source module delivers unsurpassed sound quality.
- 110 degree symmetrical coverage
- Very small box design
- Barrier strip inputs
- Available in an elegant high gloss white or black with removable fabric grill

Applications

- High quality business music playback
 - Retail
 - Restaurant
 - Hospitality
- Home Theater
- Commons area fill music and lower SPL paging





Product Specifications	
Operating Range 1	100Hz - 20,000Hz
Sensitivity (1W/1M) ²	85dB
Horizontal Coverage Angle -6dB ³	110 Degrees
Vertical Coverage Angle -6dB ³	110 Degrees
Power Handling ⁴	50W RMS (20 Volts)
Max SPL (calculated) 1 Meter	102dB SPL
Recommended Amp Power for Max Output	100Watts @ 8 ohms
Nominal Impedance	8 Ohms
Suggested Crossover Frequency - HPF	100Hz - 4th order BW
Transducers - Low Freq.	4" Bass/Midrange
High Freq.	PRD100 Ribbon
Input	Barrier Strip
Dimensions	5" (12.7cm) H
	5" (12.7cm) W
	5" (12.7cm) D
Enclosure	3/4" MDF closed box
Weight	3.5lbs (1.6kg)
Mounting	Threaded inserts 1/4 - 20 thread
Optional Accessories	CM832JB Series-Parallel Junction Box
	MNT.CM141CC Mounting Bracket
	CM Series Subwoofer
Finish Options	White High Gloss
	Black High Gloss

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10KHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



CM141CC Drawings



Polars (Symmetrical Coverage)















Product Technical Data Sheet Model CM208W

Description

The CM208W is a small format dual 8" high end subwoofer intended for background and foreground music playback as well as small sound reinforcement applications with an operating range down to 33Hz.

The input section includes a low pass crossover as well as high passed outputs that incorporate our series parallel network for driving four 8 ohm satellite speakers at an 8 ohm total load. Additionally, by removing a pair of jumpers the subwoofer can be used with DSP based bi-amp designs while still incorporating the series parallel network for the high pass satellite outputs to avoid using 70V transformers.

As an option the subwoofer can be ordered with an internal 70V 60W transformer. This transformer is in circuit before the crossover so the subwoofer and four CM Series satellites can be powered by one 70V amplifier channel if desired.



Key Features

- Operating range extending down to 33Hz using dual 8" poly cone drivers
- Integrated fly points
- Small format design
- Built in crossover with high pass series/paralell outputs for use with other CM series speakers. This configuration can also be biamped with DSP crossover based designs for maximum performance
- Optional internal 70V 60W transformer that can power the subwoofer and satellites or just the subwoofer with one 70V amplifier channel
- Barrier Strip inputs and outputs
- Available in white or black

Applications

- High quality business music playback
 - Retail
 - Restaurant
 - Hospitality
- Home Theater
- Commons area fill music

Product Specifications	
Operating Range 1	33Hz - 200Hz
Sensitivity (1W/1M) ²	89dB
Power Handling ³	200W RMS (40 Volts)
Max SPL (calculated) 1 Meter	112dB SPL
Recommended Amp Power for Max Output	400 Watts @ 8 ohms
Nominal Impedance	8 Ohms, 70V 60W tap w/optional transformer
Bi-amp Suggested xover Frequency - HPF	30Hz - 4th order BW
LPF	100Hz - 4th order BW
Transducers	Dual 8" Woofers
Input/Output	Barrier Strip
Dimensions	10.5" (27cm) H
	24.6" (62.5cm) W
	18" (46cm) D
Enclosure	13ply Baltic Birch
Weight	48 lbs (21.77kg) Shipping 63lbs (28.6kg)
Mounting	(16) Threaded inserts for 3/8" -16 eyebolts
Optional Accessories	Internal 60W 70V transformer
Finish Options	White
	Black

1. LF at -10dB

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
3. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



CM208W Drawings









Product Technical Data Sheet Model CM208W-TB

Description

The CM208W-TB is a dual 8" subwoofer intended for background music playback. It is specifically designed for installation in tile grid ceilings.

The input section includes a low pass crossover as well as high passed outputs that incorporate our series parallel network for driving four 8 ohm satellite speakers at an 8 ohm total load. Additionally, by removing a pair of jumpers the subwoofer can be used with DSP based bi-amp designs while still incorporating the series parallel network for the high pass satellite outputs to avoid using 70V transformers.

As an option the subwoofer can be ordered with an internal 70V 60W transformer. This transformer is in circuit before the crossover so the subwoofer and four CM Series satellites can be powered by one 70V amplifier channel if desired.

Key Features

- Operating range extending down to 32Hz using dual 8" poly cone drivers
- Small format design
- Built in crossover with high pass series/paralell outputs for use with other CM series speakers. This configuration can also be biamped with DSP crossover based designs for maximum performance
- Optional factory installed 70V 60W transformer that can power the subwoofer and the satellites or just the subwoofer with one 70V amplifier channel
- Barrier Strip inputs and outputs
- Comes with an installation ring that can be delivered in advance of the subwoofer for mounting during project construction.
- Enclosure and installation ring painted with a Class A fire rated finish
- Paintable white grill

Applications

- High quality business music playback
 - Retail
 - Restaurant
 - Hospitality
- Commons area fill music



Product Specifications		
Operating Range ¹	32Hz - 200Hz	
Sensitivity (1W/1M) 2	89dB	
Power Handling 3	200W RMS (40 Volts)	
Max SPL (calculated) 1 Meter	112dB SPL	
Recommended Amp Power for Max Output	400 Watts @ 8 ohms	
Nominal Impedance	8 Ohms or optional 70V 60W tap	
Suggested DSP Crossover Frequency - HPF	30Hz - 4th order BW	
LPF	100Hz - 4th order BW	
Transducers	Dual 8" Woofers	
Input/Output	Barrier Strip	
Dimensions	19" L (48.3cm)	
	19" W (48.3cm)	
	15.75" D (40cm)	
Enclosure	13ply Baltic Birch	
Weight	45 lbs (20.4kg) Shipping 63lbs (28.6kg)	
Mounting	Included eye-bolts (4)	
Optional Accessories	Internal 60W 70V transformer	
Finish	White Grill with white trim (paintable)	

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



CM208W-TB Drawings





Product Technical Data Sheet Model CM208W-SR

Description

The CM208W-SR is a dual 8" subwoofer intended for background music playback. It is specifically designed for installation in sheetrock ceilings.

The input section includes a low pass crossover as well as high passed outputs that incorporate our series parallel network for driving four 8 ohm satellite speakers at an 8 ohm total load. Additionally, by removing a pair of jumpers the subwoofer can be used with DSP based bi-amp designs while still incorporating the series parallel network for the high pass satellite outputs to avoid using 70V transformers.

As an option the subwoofer can be ordered with an internal 70V 60W transformer. This transformer is in circuit before the crossover so the subwoofer and four CM Series satellites can be powered by one 70V amplifier channel if desired.

Key Features

- Operating range extending down to 32Hz using dual 8" poly cone drivers
- Small format design
- Built in crossover with high pass series/paralell outputs for use with other CM series speakers. This configuration can also be biamped with DSP crossover based designs for maximum performance
- Optional factory installed 70V 60W transformer that can power the subwoofer and the satellites or just the subwoofer with one 70V amplifier channel
- Barrier Strip inputs and outputs
- Comes with an installation ring that can be delivered in advance of the subwoofer for mounting during project construction.
- Enclosure and installation ring painted with a Class A fire rated finish
- Paintable white grill

Applications

- High quality business music playback
 - Retail
 - Restaurant
 - Hospitality
- Commons area fill music



Product Specifications		
Operating Range ¹	32Hz - 200Hz	
Sensitivity (1W/1M) 2	89dB	
Power Handling 3	200W RMS (40 Volts)	
Max SPL (calculated) 1 Meter	112dB SPL	
Recommended Amp Power for Max Output	400 Watts @ 8 ohms	
Nominal Impedance	8 Ohms or optional 70V 60W tap	
Suggested DSP Crossover Frequency - HPF	30Hz - 4th order BW	
LPF	100Hz - 4th order BW	
Transducers	Dual 8" Woofers	
Input/Output	Barrier Strip	
Dimensions	19" L (48.3cm)	
	19" W (48.3cm)	
	15.75" D (40cm)	
Enclosure	13ply Baltic Birch	
Weight	45 lbs (20.4kg) Shipping 63lbs (28.6kg)	
Mounting	Install/mounting ring	
Optional Accessories	Internal 60W 70V transformer	
Finish	White Grill with white trim (paintable)	

1. LF at -10dB

 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in a half-space environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



CM208W-SR Drawings





Product Technical Data Sheet Model PRD8COM

Description

The PRD8COM is an advanced professional in-ceiling loudspeaker that provides high fidelity performance for commercial applications. The PRD8COM combines a proprietary 3" Neodymium high frequency ribbon driver with a high-tech cone 8" low frequency driver.

The low frequency transducer features a high efficiency motor structure with high excursion capabilities and very low distortion. An advanced Kevlar TM cone results in excellent clarity even at extreme SPL output levels.

A rotary switch positioned on the front panel allows for multiple 70V power tap selection using a high quality transformer as well as for 8 ohms direct connection.

The PRD8COM uses high quality crossover components like polypropylene capacitors to insure minimum distortion and preservation of accurate signal structure and resolution.

The PRD8COM loudspeaker has two options of premium metal back boxes, a 0.5 cu.ft. and a 1 cu.ft. internal volume are available. They can be mounted in a hard deck ceiling or in a suspended tile ceiling. Each backbox is shipped with a pair of channel rails.







PRD8COM.BBOX.5 Option

PRD8COM.BBOX Option

Product Specifications		
Operating Range(w/1cu ft backbox) 1	45Hz - 20,000Hz	
Sensitivity (1W/1M) ²	94dB	
Across ribbon radiating slot - 6dB 3	120 Degrees	
Along ribbon radiating slot - 6dB ³	90 Degrees	
Power Handling ⁴	100W RMS (28 Volts) AES/2	
Max SPL (calculated) 1 Meter	114dBCont. / 120dB Peak	
Recommended Amp Power for Max Output	200 Watts @ 8 Ohms	
Nominal Impedance (bypassed transformer)	8 Ohms	
Transformer Taps	7.5, 15, 30, 60 Watts	
Transformer Insertion Loss	0.6dB	
Crossover Frequency	Internal Passive 2400Hz	
Transducers - Low Freq.	8" Kevlar Woofer	
High Freq.	3" Ribbon Coax Mounted	
Input	Wire Tails	
Dimensions	Baffle diameter of 10.75"	
	Typical 12.25" diameter ceiling cutout	
	⁵ 4.5" minimum vertical clearance needed	
Weight	10lbs (4.5kg)	
Weight with BBOX.5 option	14lbs (6.4kg)	
Weight with BBOX option	18lbs (8.2kg)	
Optional Accessories	PRD8COM.BBOX (1cu ft backbox)	
	PRD8COM.BBOX.5 (.5cu ft backbox)	
	PRD8COM.TB (tilebridge)	

1. LF at -10dB, HF -6dB at 25kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

 A.ES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
 5. Minimum height clearance with no backbox, measured from front baffle of PRD8COM.

Key Features:

- 3" ribbon high frequency ribbon delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- High quality crossover components
- 60W high performance low loss transformer for 70V operation
- 8 ohm bypass for high fidelity applications

Applications

Developed for the highest quality ceiling speaker uses

- High Ceiling/High SPL
- Dance Studios
- Under Balcony Fill
- Foreground Music



PRD8COM Backbox Drawings



Typical ceiling cutout will be 12.25" Dia.



Product Technical Data Sheet Model S1266

Description

The S1266 is a full-range world class very high SPL studio monitor that offers extreme output at very low distortion.

This speaker features the high-performance PRD1000 planar ribbon high-frequency transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance.

The PRD1000 is paired with two 6.5" midrange drivers via a passive network. This audiophile mid/high crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

The low frequency section uses dual high-powered 12" Paper/Kevlar drivers designed for incredible speed to keep pace with the transient performance of the PRD1000 ribbon.



Product Specifications	
Operating Range ¹	34Hz - 30,000Hz
Sensitivity (1W/1M) - Low Freq. 2	97dB
Mid/High Freq.	100dB
Horizontal Coverage Angle -6dB ³	120 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling - Low Freq. ⁴	600W (49 Volts) AES/2
Mid/High Freq.	500W (48 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	1200 Watts @ 4 ohms
Mid/High Freq.	1000 Watts @ 4 ohms
Max SPL (calculated) 1 Meter - Low Freq.	125dB Cont. / 131dB Peak
Mid/High Freq.	127dB Cont. / 131dB Peak
Nominal Impedance - Low Freq.	4 Ohms
Mid/High Freq.	4 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	12" Woofers x 2
Mid Freq.	6.5"" Midrange x 2
High Freq.	PRD1000 Ribbon
Input	NL4 x2 (Pair 1 = LF, Pair 2 = MF, HF)
Dimensions	30" (76.2cm) H
	34" (86.4cm) W
	17.5" (44.5cm) D
Enclosure	13ply Baltic Birch
Weight	168lbs (76.2kg) Shipping 175lbs (79.4kg)
Rigging	None Provided
Finish Options	Black Latex
	Paintable Natural Finish

Key Features:

- PRD1000 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- 120-degree wide horizontal coverage
- Extensively braced 1" 13 ply Baltic Birch cabinet construction

Applications

Developed for very high SPL studio monitoring where the highest quality and neutrality of sound is required

- In-wall placement very high SPL monitoring
- Installation systems for foreground music playback
- High-end Club systems
- High SPL Home Theater

1. LF at -10dB, HF -6dB 40Hz - 2kHz +/- 1.5dB.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. Averaged from 1000Hz to 10kHz
 AES established with ambient temperature at 22C in accordance with

AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



S1266 Drawings





Product Technical Data Sheet Model S1065

Description

The S1065 is a full-range world class studio monitor that offers high SPL at very low distortion. The entire mid/high section can also be rotated in order to achieve mirror imaging for left, center, right configurations.

This speaker features the high-performance PRD500 planar ribbon high-frequency transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance.

The PRD500 is paired with a 6.5" midrange driver via a passive network. This audiophile mid/high crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

The low frequency section uses dual high-powered 10" Poly-Neo drivers designed for incredible speed to keep pace with the transient performance of the PRD500 ribbon.



Product Specifications	
Operating Range ¹	23Hz - 40,000Hz
Sensitivity (1W/1M) - Low Freq.2	94dB
Mid/High Freq.	97dB
Horizontal Coverage Angle -6dB ³	120 Degrees
Vertical Coverage Angle -6dB ³	30 Degrees
Power Handling - Low Freq. ⁴	250W (31 Volts) AES/2
Mid/High Freq.	250W (45 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	500 Watts @ 4 ohms
Mid/High Freq.	500 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.	118dB Cont. / 124dB Peak
Mid/High Freq.	121dB Cont. / 127dB Peak
Nominal Impedance - Low Freq.	4 Ohms
Mid/High Freq.	8 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	10" Woofers x 2
Mid Freq.	6.5"" Midrange
High Freq.	PRD500 Ribbon
Input	NL4 x2 (Pair 1 = LF, Pair 2 = MF, HF)
Dimensions	26" (66cm) H
	34" (86.4cm) W
	12" (30.5cm) D
Enclosure	MDF
Weight	136lbs (61.7kg) Shipping 146lbs (66.2kg)
Rigging	None Provided
Finish Options	Black Latex

Key Features:

- PRD500 ribbon high-frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- 120-degree wide horizontal coverage with a rotatable mid/high section
- Extensively braced 1" MDF cabinet construction
- Motorboard uses 2" MDF construction

Applications

Developed for high SPL studio monitoring where the highest quality and neutrality of sound is required

- In-wall placement high SPL monitoring
- Installation systems for foreground music playback
- High SPL Home Theater

1. LF at -10dB, HF -6dB 35Hz - 3kHz +/- 1.5dB.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



S1065 Drawings





Product Technical Data Sheet Model S8R

Description

The S8R is a full-range 8" two-way world class studio monitor. It also serves as a multipurpose loudspeaker enclosure that offers high SPL at very low distortion.

This speaker features the high performance PRD500 planar ribbon high-frequency transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance.

The PRD500 is contained within a 120-degree die cast aluminum waveguide that can be rotated 90-degrees within the cabinet. The waveguide also eliminates edge diffraction from the sides of the cabinet.

The low frequency section uses a single high-powered 8" driver designed with an integral phase plug and aluminum voice coil former for higher power handling.

The audiophile crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.



Product Specifications		
Operating Range 1	37Hz - 40,000Hz	
Sensitivity (1W/1M) ²	89dB	
Horizontal Coverage Angle -6dB ³	120 Degrees	
Vertical Coverage Angle -6dB ³	30 Degrees	
Power Handling ⁴	125W RMS (31 Volts) AES/2	
Max SPL (calculated) 1 Meter	110dBCont. / 116dB Peak	
Recommended Amp Power for Max Output	250 Watts @ 8 ohms	
Nominal Impedance	8 Ohms	
Crossover Frequency	Internal Passive 1500Hz	
Transducers - Low Freq.	8" Woofer	
High Freq.	PRD500 Ribbon	
Input	Binding Posts (Bi-Wire Capable)	
Dimensions	19" (48.3cm) H	
	10.5" (26.7cm) W	
	11.25" (28.6cm) D	
Enclosure	MDF	
Weight	25lbs (11.3kg) Shipping 33lbs (15kg)	
Rigging	4 Points 1/4"/20 Threaded Inserts	
Finish Options	Black Latex	

Key Features:

- PRD500 ribbon high-frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Rear Mounted Attachment Points for 3rd Party Hardware
- Bi-Wire Capability
- Extensively braced MDF cabinet construction

Applications

Developed for studio monitoring where the highest quality and neutrality of sound is required

- Console placement high SPL monitoring
- Installation systems for foreground, delay fill or background music
- Home Theater setups

 LF at -10dB, HF -6dB 44Hz - 3kHz +/- 1.5dB.
 Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
 Averaged from 1000Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



S8R Drawings





Product Technical Data Sheet Model CT8R

Description

The CT8R is a full-range 8" two-way world class studio monitor. The CT8R is identical to the popular S8R with the exception of a front mounted slotted port verses the rear mounted port on the S8R.

This speaker features the high performance PRD500 planar ribbon high-frequency transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows for very clear delivery and transient accuracy even at the limits of its performance.

The PRD500 is contained within a 120-degree die cast aluminum waveguide that can be rotated 90-degrees within the cabinet. Rotation of the waveguide provides flexibility for placement of the monitor on studio consoles. The waveguide also eliminates edge diffraction from the sides of the cabinet.

The low frequency section uses a single high-powered 8" driver designed with an integral phase plug and aluminum voice coil former for higher power handling.

The audiophile crossover utilizes high quality heavy gauge air core inductors and polypropylene capacitors.

Use of the CT8R is recommended when the speaker must be placed next to a rear obstruction that interferes with the operation of a rear port.

Key Features:

- PRD500 ribbon high-frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Rear Mounted Attachment Points for 3rd Party Hardware
- Bi-Wire Capability
- Extensively braced MDF cabinet construction

Applications

Developed for studio monitoring where the highest quality and neutrality of sound is required

- Console placement high SPL monitoring
- Installation systems for foreground, delay fill or background music when the speaker is placed very close to a back boundary
- Home Theater bookshelf setups



Product Specifications		
Operating Range ¹	37Hz - 40,000Hz	
Sensitivity (1W/1M) ²	89dB	
Horizontal Coverage Angle -6dB ³	120 Degrees	
Vertical Coverage Angle -6dB ³	30 Degrees	
Power Handling ⁴	125W RMS (31 Volts) AES/2	
Max SPL (calculated) 1 Meter	110dBCont. / 116dB Peak	
Recommended Amp Power for Max Output	250 Watts @ 8 ohms	
Nominal Impedance	8 Ohms	
Crossover Frequency	Internal Passive 1500Hz	
Transducers - Low Freq.	8" Woofer	
High Freq.	PRD500 Ribbon	
Input	Binding Posts (Bi-Wire Capable)	
Dimensions	19" (48.3cm) H	
	10.5" (26.7cm) W	
	11.25" (28.6cm) D	
Enclosure	MDF	
Weight	25lbs (11.3kg) Shipping 33lbs (15kg)	
Rigging	4 Points 1/4"/20 Threaded Inserts	
Finish Options	Black Latex	

1. LF at -10dB, HF -6dB 55Hz - 3kHz +/- 1.5dB.

2. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker. 3. Averaged from 100Hz to 10kHz

4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5



CT8R Drawings





Product Technical Data Sheet Model PS8R

Description

The PS8R is a full-range 8" two-way world-class powered studio monitor utilizing dual Sigma-Delta 1-bit discrete digital amplifiers. These new technology amplifiers combine exceptional sonic performance with over 90% efficiency. They are setting a new standard in small-format, low-heat, high-performance audio amplifiers.

This speaker also features the high-performance PRD500 planar ribbon high frequency transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allow for very clear delivery and transient accuracy even at the limits of its performance.

The PRD500 is contained within a 120-degree die-cast aluminum waveguide that can be rotated 90 degrees within the cabinet. Rotation of the waveguide provides flexibility for placement of the monitor on studio consoles. The waveguide also eliminates edge diffraction from the sides of the cabinet.

The low-frequency section uses a single high-powered 8" driver designed with an integral phase plug and aluminum voice coil former for higher power handling.



Product Specifications		
Operating Range 1	36Hz - 40,000Hz	
Horizontal Coverage Angle -6dB ²	120 Degrees	
Vertical Coverage Angle -6dB ²	30 Degrees	
Input Sensitivity	1.1V RMS	
Max SPL (calculated) 1 Meter	110dBCont. / 116dB Peak	
Amplifier Power Low Freq.	270 Watts	
Amplifier Power High Freq.	50 Watts	
AC Power Consumption	4.3 Amps at rated maximum output	
	0.2 Amps at idle	
Crossover Frequency	Internal 1500Hz	
Transducers - Low Freq.	8" Woofer	
High Freq.	PRD500 Ribbon	
Input	XLR	
Dimensions	19" (48.3cm) H	
	10.5" (26.7cm) W	
	12.375" (31.4cm) D	
Enclosure	MDF	
Weight	46.5lbs (21kg) Shipping 51lbs (23kg)	
Rigging	None Provided	
Finish Options	Black Latex	

LF at -10dB, HF -6dB 44Hz - 3kHz +/- 1.5dB.
 Averaged from 1000Hz to 10kHz

Applications

Developed for studio monitoring where the highest quality and neutrality of sound is required

- Console placement high SPL monitoring
- Installation systems for foreground or background music
- Home Theater

Key Features:

- PRD500 ribbon high-frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducers and Sigma-Delta Amplifier technology
- Frequency Progressive Limiting Circuit
- Selectable 2nd-order 80Hz HPF
- 3rd-order 20Hz sub-sonic filter
- Active crossover with matched filtering to S8R
- LED Status indication for power, protect, peak limit and standby
- 120-degree wide horizontal coverage with rotatable ribbon
- Extensively braced MDF cabinet construction



PS8R Drawings





The LS6593v2:

The LS6593v2 represents a break-through in high quality live sound solutions. This application note is formated to provide designers a working understanding of line array physics, allowing them to properly incorporate the LS6593v2 into their designs. It will also identify specific product features in the LS6593v2 and discuss how to use them to further advance design solutions.

The Engineering staff at SLS

Point Source vs Line Source

A point source can be defined as a single point in space from which the measured sound "seems" to emanate or expand equally in all directions, i.e. spherically. (see Figure 1) A line array can be defined as an array of loudspeakers acting in unison to create the measured sound that expands in only a single plane. (see Figure 2)

An advantage of a line array (over a point source loudspeaker) is the resultant Sound Pressure Level (SPL) at distance. The line array only reduces SPL by 3 dB for each doubling of the distance from the loudspeaker, as opposed to a point source loudspeaker that looses 6 dB per doubling of distance.

A group of "stacked up" loudspeakers will display the properties of both a point source and a line array. The wave propagation characteristic will depend upon the frequency being measured and the height of the array. Figure 1 and Figure 2 are both LS6593v2 units, only the measured frequency and the array height have changed. **Therefore, not all "stacked up" loudspeakers can be considered true line arrays at the frequency where the characteristic is needed**.





Figure 1: Vertical Energy Dispersion of a point source (1) LS6593v2 @ 500Hz 119 dB at 1 meter



The Problem - Maintaining Frequency Response at Distance

The "plot" below is an overlay of individual energy dispersion plots from a single LS6593v2 loudspeaker measured at two frequencies. It graphically shows what happens to the frequency response as the measuring point is moved farther from the loudspeaker. The single LS6593v2 is acting as a point source at 630Hz but acting as a line source at 8000Hz. The further away from the source, the less low frequency will be measured relative to the high frequencies. **All line arrays will exhibit this behavior at some frequency.** The length of the line will determine how low in frequency this behavior starts. Therefore, a single LS6593v2 would only rarely be used as it only becomes a line source starting at a very high frequency (about 5000Hz).



Frequency response curve referenced at a position far from the speaker (back row seating) Note that the higher frequencies peak **11 dB higher** then the low frequencies. This is a non-correctable situation. Any EQ done at the back position will cause an equal error to be created at the front position. **This is a result of not using enough LS6593v2 in the design.** More units are needed to extend low frequencies to the desired distance.



Growing Your Array

Below are energy dispersion plots measured at the same lower frequency of 630Hz used on the previous page. These show how the number of LS6593v2 modules used starts to control the lower midrange. Notice that it takes a minimum of five modules at the measured frequency to truly become a line source. However, even using just two modules offers a substantial improvement over just one. For this reason the minimum recommended LS6593v2 modules are two per location to minimize frequency response errors and providing vertical control at distance.





Typical Application Example

This venue's RT60 time is 1.4 seconds, the throw distance is 90 feet to the back row and the vertical coverage required is 3 feet. Using the previously shown calculation formulas, it is determined that three units are the minimum number needed (the RT60 calculation requirement is 7.5 feet and three LS6593v2 units are 8 feet). Using LASS, the coverage area (throw distance and elevation) and array information is entered. By rotating the three LS6593v2 modules 2 degrees down and carefully adjusting the overall height, astonishing results can be achieved.



Conclusion

We at SLS are excited about the potential of your success with our LS6593v2 modules. With the basic understanding available in this application note you are well on your way to a great variety of designs that can exceed your customer's expectations.

SLS maintains a full time staff to assist you with your specific applications and we encourage your use of this resource. There are many situations where the LS6593v2 modules can be implemented that are beyond the scope of this application note so e-mail or give us a call whenever practical. We will be glad to assist you.



The LS6500 is an amazing line array element that when properly implemented can outperform much larger and more expensive system designs. To make the LS6500 even more economical we offer the following diagrams that allow the entire line array to be powered by one amplifier, up to 12 elements!

The Engineering staff at SLS







9 and 12 Element Wiring Solutions





Properly setting up system limiters to protect your drivers but at the same time providing for maximum performance can be a tricky business. This is due to the many techniques of DSP limiting that are available to DSP designers. There is no perfect way to establish a single method of limiter setup that protects from all forms of signal input stimulus that the driver may encounter without knowing very specific data about the limiter block characteristics for the DSP in use. As an example, how a DSP limiter threshold reacts between normal music and feedback can be quite substantial depending on the DSP software and hardware. **Please remember that in severe situations, drivers can still be damaged so good system design (see Application Note "Which SLS Line Array to Choose") and common sense are the rule.** Below is a method of setting a limiter threshold that will do a good job of protecting the driver with normal program material, however the driver may still be vulnerable to sustained high frequency feedback or very large low frequency transients.

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- 1. Obtain a source to generate pink noise and obtain a true RMS voltage meter.
- 2. Set up the system's gain structure to match the application.
- 3. **Disconnect the speakers from the amplifier under test.** Damage to the drivers will result if this in not done.
- 4. Make sure that the limiter is bypassed on your processor unit being used for protection. Leave the crossover, HPF and any EQ filters used engaged (if applicable).
- 5. Put the voltage meter across the amplifier terminals and turn up the pink noise volume until the meter reads 2 volts above the RMS voltage rating specified for that driver.
- 6. Set your limiter to a minimum of a 100:1 ratio and input the suggested attack and release times. Engage the limiter and slowly decrease the threshold until the voltage is lowered to the rating specified (without changing the gain of the pink noise).
- 7. Repeat the above procedure for each driver and/or box type being used.
- 8. Turn off the pink noise and re-connect the speakers.
- 9. Engage the predictive peak stop limiter if the DSP has one available at 6dB above the RMS setting (we have provided the calculated voltage as well). Be aware of amplifier clipping. If this occurs during system use, lower the peak stop threshold until the amplifier is just into clipping. As an alternative, engage the self-contained limiter circuit in the amplifier if it has one.

This only needs to be done once as long as the amplifier/limiter combination does not change. However, any change of the amplifier gain will modify the limiter's action. If the amplifier gain is decreased, protection will engage early, limiting driver output. If the amplifier gain is increased, protection will engage only after the driver is above the safe RMS voltage. For this reason, it is recommended that this limiter setup procedure be performed with the amplifier gain at maximum when the system will be used in an unsupervised situation or when the amplifier gain can be user modified.



SLS Driver Protection for Current Products

	SLS Woofers and/or	Passive Protection Chart
4" Woofers	2403, 2413	18V, 8msec attack, 128msec release, peak stop 36V
	CM141CC	20V, 8msec attack, 128msec release, peak stop 40V
	CM141CC x4 (CM208W series/parallel output)	40V, 8msec attack, 128msec release, peak stop 80V
5.25" Woofers	LS6593v2 (passive or LF)	60V, 8msec attack, 128msec release, peak stop 120V
6.5" Woofers	CS200	28V, 2msec attack, 32msec release, peak stop 56V
	LS6500, CS6500 (LF)	28V, 4msec attack, 64msec release, peak stop 56V
	LS7500 (LF)	45V, 16msec attack, 256msec release, peak stop 90V
	LS8695v2 (LF)	56V, 8msec attack, 128msec release, peak stop 112V
	LS9000 (MF)	64V, 2msec attack, 32msec release, peak stop 128V
	LS9900 (MF)	89V, 2msec attack, 32msec release, peak stop 178V
8" Woofers	PRD8COM	28V, 8msec attack, 128msec release, peak stop 56V
	T28R, T28R-I	28V, 16msec attack, 256msec release, peak stop 56V
	S8R, CT8R	31V, 16msec attack, 256msec release, peak stop 62V
	8290, 8290T-I	40V, 16msec attack, 256msec release, peak stop 80V
	CM208W, CM208W-TB, CM208W-SR	40V, 45msec attack, 720msec release, peak stop 80V
	8190v2, 8190Tv2-I, CS890Sv3	42V, 8msec attack, 128msec release, peak stop 84V
	LS9000 (LF), LS8800 (LF), 2806H (LF), CS-MH2806 (LF)	64V, 16msec attack, 256msec release, peak stop 128V
12" Woofers	1290, 1290T-I, CS300E	45V, 16msec attack, 256msec release, peak stop 90V
	112RT, 112RT-I, 112RM	64V, 16msec attack, 256msec release, peak stop 128V
	212EL	64V, 45msec attack, 720msec release, peak stop 128V
15" Woofers	1590, 1590T-I, CSB115, CSB215	49V, 16msec attack, 256msec release, peak stop 98V
	115RT, 115RT-I, 115RM	64V, 16msec attack, 256msec release, peak stop 128V
	LS9900 (LF), LSB8115, 115EL, 215EL	64V, 45msec attack, 720msec release, peak stop 128V
18" Woofers	118EL, CS118, 218EL, CS218EL, SP1000, SP810	64V, 45msec attack, 720msec release, peak stop 128V
	118XEL, CS118XEL, SP2000, SP820	89V, 45msec attack, 720msec release, peak stop 178V
	SLS Ribbon F	Protection Chart
PRD1000 Ribbons	LS9900 (HF)	40V, .5msec attack, 8msec release, no peak stop
	All bi-amp models with (1) PRD1000 ribbon w/o TPAC	20V, .5msec attack, 8msec release, no peak stop
	All bi-amp models with (1) PRD1000 ribbon with TPAC	No RMS limiting, peak stop 50V
PRD500 Ribbons	LS8695v2 (HF)	47V, .5msec attack, 8msec release, no peak stop
	All bi-amp models with (1) PRD500 ribbon w/o TPAC	15.6V, .5msec attack, 8msec release, no peak stop
	All bi-amp models with (1) PRD1000 ribbon with TPAC	No RMS limiting, peak stop 32V
PRD250 Ribbons	LS6593v2 (HF)	70V, .5msec attack, 8msec release, no peak stop

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US Air force Academy

Virginia Sports Hall of Fame

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