SONOTONE

Innovative Sonic Technology

PRODUCT CATALOG

2024-25

SINCE 1991
The Ultimate Loudspeaker

DynaTech SUPERIOR SOUND
Sound systems & Electronics

JTS®
Professional Microphones

MACKIE.

MARANI®
Digital Processors

UNiKA PROFESSIONAL AUDIO

VOLITE

Professional Audio Products

Providing high quality professional audio components and systems since 1991. Our goal is to make every sound better and let everyone enjoys the sound they like.

SINCE 1991
The Ultimate Loudspeaker

KNOW US

OUR HISTORY

The Chen family started the business as a voice coil manufacturer in Taiwan back in 1976. After 15 years of specializing in this core component of loudspeakers, Steve Chen, founder of P.Audio, decided to build his very own loudspeaker and found P.Audio in Thailand in 1991.

Over the years, P.Audio has earned its reputation for making high-quality products and accessible price. The brand has well-established distribution network around the world and supply to many of the world's leading pro-audio brands.

Key Developments to the ultimate speakers

1990s

- Produce speakers for car audio and professional audio
- Start vertical integration and produce steel parts in-house

2000s

- Focus on building our own speaker wooden box and in-house designed speaker systems
- Start OEM for European audio brands

2010s

- Develop comprehensive vertical integration
- Expand production to include wooden box, metal parts, plastic injections, and laser works for rigging parts

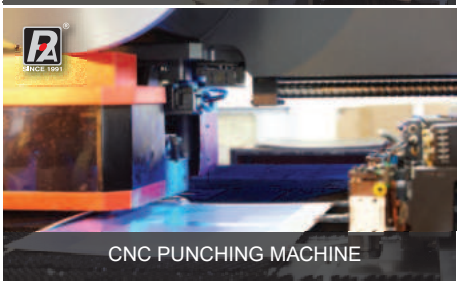
2020 onwards

- Develop production methods that allow us to produce more powerful products

ROBOT CNC MACHINE

AUTO CNC MACHINE

LARGE INJECTION MACHINE



CNC PUNCHING MACHINE

SINCE 1991
The Ultimate Loudspeaker

FT SERIES / Low Frequency 18”

19FT-125XB

Ferrite Magnet Die-cast Chassis Driver

General Specifications

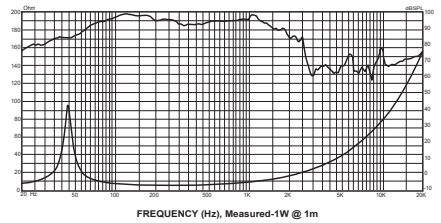
Nominal Diameter	483 mm (19 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	2000 W(AES)
Continuous Program Power capacity	3000 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	40-1000 Hz
Voice Coil Diameter	126 mm (5 in)
Voice Coil Material	EISVW (IN+OUT)
Former Material	Glass fiber
Effective Piston Diameter	444.5 mm (17.5 in)
Flux Density	1.2T

Frequency response and Impedance curve



19FT-115XB

Ferrite Magnet Die-cast Chassis Driver

General Specifications

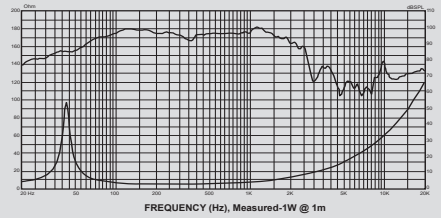
Nominal Diameter	483 mm (19 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1800 W(AES)
Continuous Program Power capacity	2400 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	40-1000 Hz
Voice Coil Diameter	114.4 mm (4.5 in)
Voice Coil Material	EISVW (IN+OUT)
Former Material	Glass fiber
Effective Piston Diameter	444.5 mm (17.5 in)
Flux Density	1.2T

Frequency response and Impedance curve



GM18-1800N

Neodymium Magnet Die-cast Chassis Driver

General Specifications

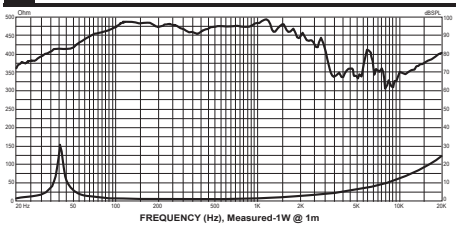
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1800W (AES)
Continuous Program Power capacity	3400W
Sensitivity	97 dB

Physical Information

Magnet Material	Neodynium
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Double Spider with Silicone)
Gasket	EVA
Pole Design	Straight Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	35-1500 Hz
Voice Coil Diameter	114.4 mm (4.5 In)
Voice Coil Material	HML Wire (in+out)
Former Material	Glass fiber
Effective Piston Diameter	395 mm (15.5 in)
Flux Density	1.2T

Frequency response and Impedance curve



GST-181500 v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

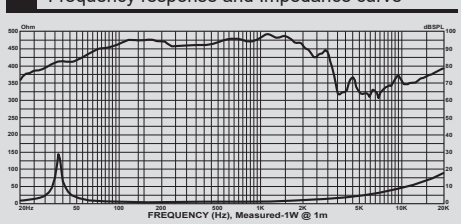
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	2000 W(AES)
Continuous Program Power capacity	3000 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	40-800 Hz
Voice Coil Diameter	127.0 mm (5 in)
Voice Coil Material	Copper (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	397.0 mm (15.6 in)
Flux Density	1.2T

Frequency response and Impedance curve



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The Ultimate Loudspeaker

Low Frequency 18”

GM18-100N

Low Frequency Neodymium Woofer

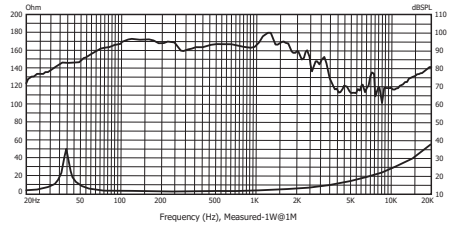
General Specifications

Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1200 W(AES)
Continuous Program Power capacity	2400 W
Sensitivity	97 dB

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Silicone Impregnated Spider)
Gasket	
Pole Design	EVA
Woofer Cone Treatment	T-Pole Waterproof Front Side

Frequency Range	30-200 Hz
Voice Coil Diameter	101.6 mm / 4 in
Voice Coil Material	Round Copper Wire
Former Material	Glass fiber
Effective Piston Diameter	392.0 mm (15.4 in)
Flux Density	1.0T

Frequency response and Impedance curve



GST-181200 v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

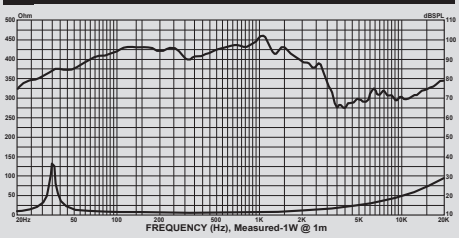
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1200 W(AES)
Continuous Program Power capacity	2400 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Silicone Impregnated Spider)
Gasket	
Pole Design	EVA
Woofer Cone Treatment	T-Pole Waterproof Front Side

Frequency Range	30-1000 Hz
Voice Coil Diameter	101.6 mm (4.0 in)
Voice Coil Material	Copper (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	397.0 mm (15.6 in)
Flux Density	1.1T

Frequency response and Impedance curve



SD18-1700EL

Ferrite Magnet Die-cast Chassis Driver

General Specifications

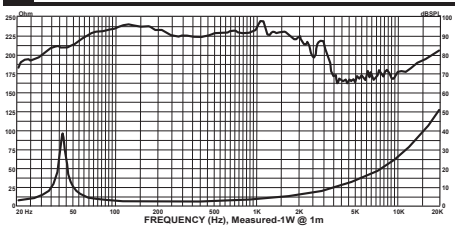
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1700 W(AES)
Continuous Program Power capacity	3400 W
Sensitivity	98 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	35-1000 Hz
Voice Coil Diameter	114.4 mm (4.5 in)
Voice Coil Material	SV-SQ (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	394.5 mm (15.5 in)
Flux Density	0.8T

Frequency response and Impedance curve



C18-1000 v3

Ferrite Magnet Die-cast Chassis Driver

General Specifications

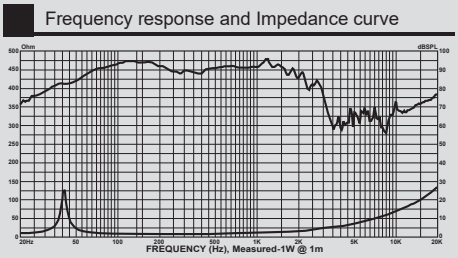
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1500 W(AES)
Continuous Program Power capacity	3000 W
Sensitivity	94 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	40-1000 Hz
Voice Coil Diameter	114.4 mm (4.5 in)
Voice Coil Material	Copper (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	394.5 mm (15.5 in)
Flux Density	0.9T

Frequency response and Impedance curve



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Low Frequency 18”

C18-650EL v3

Ferrite Magnet Die-cast Chassis Driver

General Specifications

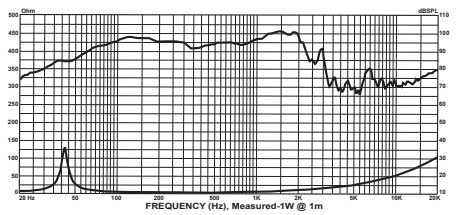
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1000 W(AES)
Continuous Program Power capacity	2000 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	35-1000 Hz
Voice Coil Diameter	99.3 mm (4 in)
Voice Coil Material	Flat aluminium wire
Former Material	Glass fiber
Effective Piston Diameter	395.9 mm (15.6 in)
Flux Density	1.0T

Frequency response and Impedance curve



New P180/2243

Ferrite Magnet Die-cast Chassis Driver

General Specifications

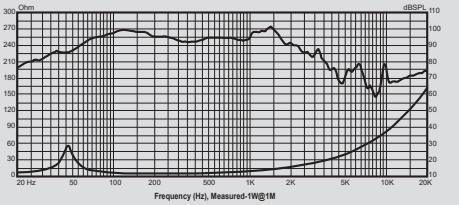
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1200 W(AES)
Continuous Program Power capacity	2400 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	40-1000 Hz
Voice Coil Diameter	101.6 mm (4 in)
Voice Coil Material	Flat aluminium wire
Former Material	Glass fiber
Effective Piston Diameter	405.2 mm (16.0 in)
Flux Density	1.1T

Frequency response and Impedance curve



P180/2242 v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

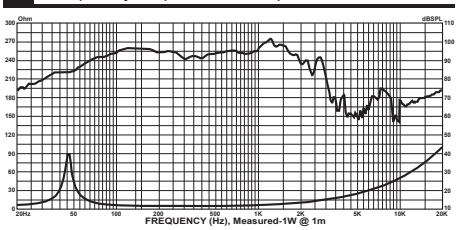
Nominal Diameter	457 mm (18 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1200 W(AES)
Continuous Program Power capacity	2400 W
Sensitivity	95 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	40-1000 Hz
Voice Coil Diameter	99.3 mm (3.9 in)
Voice Coil Material	Flat aluminium wire
Former Material	Glass fiber
Effective Piston Diameter	405.2 mm (16.0 in)
Flux Density	1.0T

Frequency response and Impedance curve



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Low Frequency 15”

C15-600EL v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

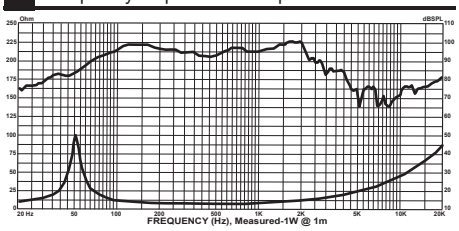
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1200W (AES)
Continuous Program Power capacity	2400W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Double)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	55-2000 Hz
Voice Coil Diameter	99.3 mm (4 In)
Voice Coil Material	CCAR
Former Material	Glass fiber
Effective Piston Diameter	335mm (13.1 in)
Flux Density	1.0T

Frequency response and Impedance curve



GST-151200

Ferrite Magnet Die-cast Chassis Driver

General Specifications

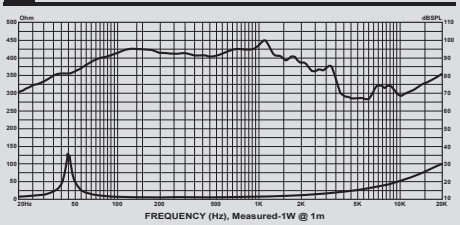
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1200W (AES)
Continuous Program Power capacity	2400W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Double Spider with Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	40-2000 Hz
Voice Coil Diameter	101.6mm (4.0 In)
Voice Coil Material	SVW (in+out)
Former Material	Glass fiber
Effective Piston Diameter	331.9mm (13.1 in)
Flux Density	1.0T

Frequency response and Impedance curve



GM15-100F

Low Frequency Ferrite Woofer

General Specifications

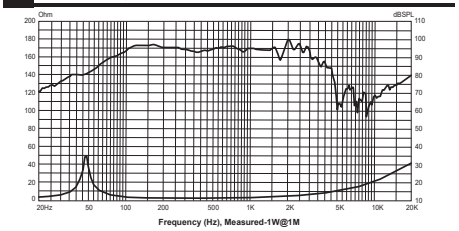
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1000 W(AES)
Continuous Program Power capacity	2000 W
Sensitivity	98 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Silicone Impregnated Spider)
Gasket	EVA
Pole Design	Straight Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	40-2000 Hz
Voice Coil Diameter	101.6 mm (4.0 in)
Voice Coil Material	Round Copper Wire (IN/OUT)
Former Material	Glass fiber
Effective Piston Diameter	332.1 mm (13.1 in)
Flux Density	1.0T

Frequency response and Impedance curve



P150/2228

Ferrite Magnet Die-cast Chassis Driver

General Specifications

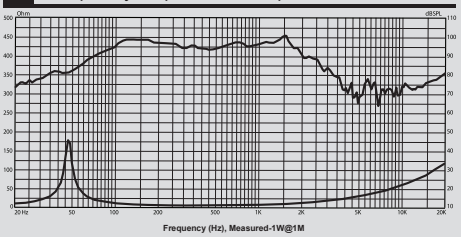
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1000W (AES)
Continuous Program Power capacity	2000W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Double)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	40-2000 Hz
Voice Coil Diameter	99.3 mm (4 In)
Voice Coil Material	SVW
Former Material	Glass fiber
Effective Piston Diameter	335mm (13.1 in)
Flux Density	1.0T

Frequency response and Impedance curve



SINCE 1991
The Ultimate Loudspeaker

Low Frequency 15”

New P150/2227

Ferrite Magnet Die-cast Chassis Driver

General Specifications

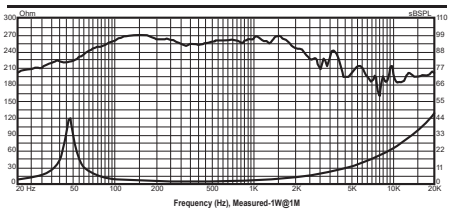
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	1000 W(AES)
Continuous Program Power capacity	2000 W
Sensitivity	97 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Double)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	45-2000 Hz
Voice Coil Diameter	101.6 mm (4 in)
Voice Coil Material	Flat aluminium wire
Former Material	Glass fiber
Effective Piston Diameter	340.2 mm (13.4 in)
Flux Density	1.2T

Frequency response and Impedance curve



P150/2226 v3

Ferrite Magnet Die-cast Chassis Driver

General Specifications

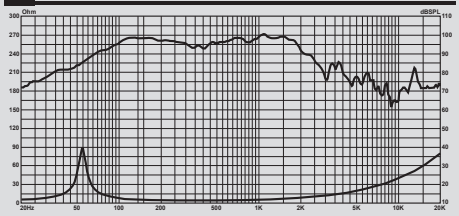
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	800 W(AES)
Continuous Program Power capacity	1600 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Double Silicone)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	40-2000 Hz
Voice Coil Diameter	99.3 mm (4 in)
Voice Coil Material	Flat aluminium wire
Former Material	Glass fiber
Effective Piston Diameter	340.2 mm (13.4 in)
Flux Density	1.0T

Frequency response and Impedance curve



SN-15LF

Ferrite Magnet Die-cast Chassis Driver

General Specifications

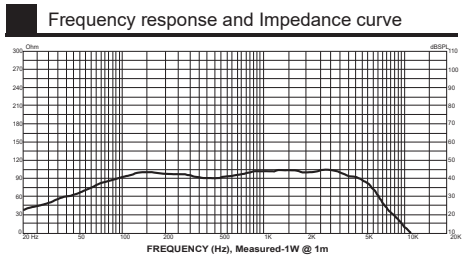
Nominal Diameter	381 mm / 15 in
Nominal Impedance	8 Ohm
Nominal Power Handling	600W (AES)
Continuous Program Power capacity	1200W
Sensitivity	98 dB

Physical Information

Magnet Material	Neodymium
Basket Material	Cast Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	55-1500 Hz
Voice Coil Diameter	76.2 mm/3 in
Voice Coil Material	Copper
Former Material	Glass fiber
Effective Piston Diameter	331.0 mm (13.0 in)
Flux Density	1.2T

Frequency response and Impedance curve



15BM-500B v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

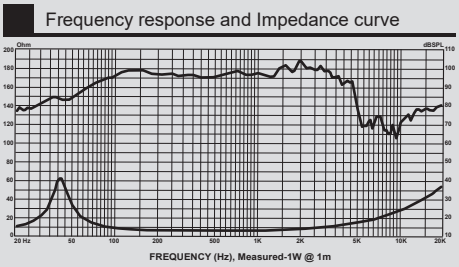
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	500W (AES)
Continuous Program Power capacity	1000W
Sensitivity	97 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton(Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	45-3500 Hz
Voice Coil Diameter	82.5mm (3.25 In)
Voice Coil Material	CCAW
Former Material	Glass fiber
Effective Piston Diameter	331 mm (13.0 in)
Flux Density	1.1T

Frequency response and Impedance curve



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Low Frequency 15”

15BM-400B v3

Ferrite Magnet Die-cast Chassis Driver

General Specifications

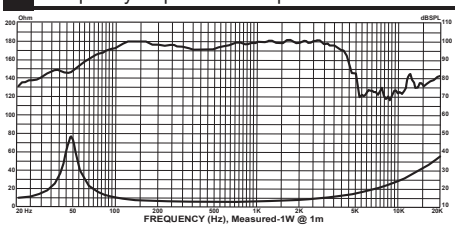
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	400 W(AES)
Continuous Program Power capacity	800 W
Sensitivity	97 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	45-3500 Hz
Voice Coil Diameter	76.2 mm (3.0 in)
Voice Coil Material	Copper
Former Material	Kapton
Effective Piston Diameter	331 mm (13.0 in)
Flux Density	1.2T

Frequency response and Impedance curve



C15-400B

Ferrite Magnet Die-cast Chassis Driver

General Specifications

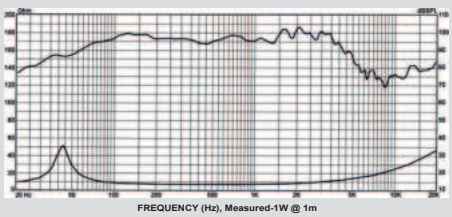
Nominal Diameter	381 mm (15 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	400 W(AES)
Continuous Program Power capacity	8000 W
Sensitivity	97 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Cast Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	Waterproof Front Side

Frequency Range	55-2000 Hz
Voice Coil Diameter	75.7 mm (3.0 in)
Voice Coil Material	AL-W
Former Material	Glass fiber
Effective Piston Diameter	331 mm (13.0 in)
Flux Density	1.2T

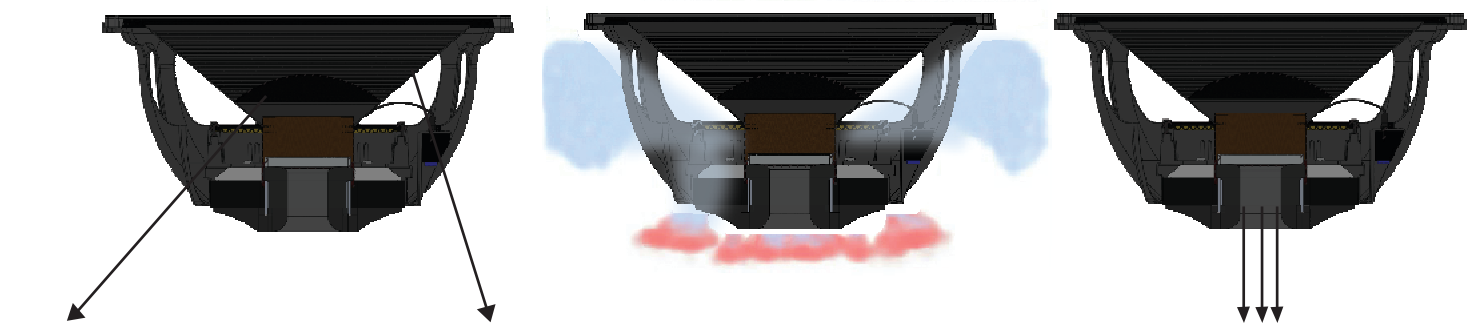
Frequency response and Impedance curve



TECHNOLOGY HIGHLIGHT - AUTO BALANCED COOLING (ABC)™

Auto Balanced Cooling, or ABC, is a combination of techniques that P Audio is utilizing for a wide range of very high performance loudspeaker designs. ABC technology produces substantially higher power handling and superior power compression performance. These new techniques will yield higher product reliability and higher sound pressure level capability.

ABC technology uses the air flow produced by the loudspeaker dust cap and cone to channel air flow across the voice coil.



SINCE 1991
The Ultimate Loudspeaker

Low Frequency 12”

C12-500MB v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

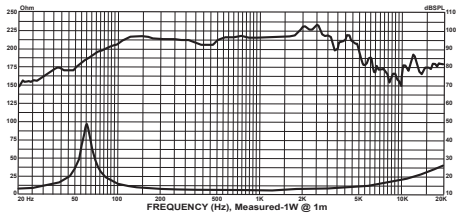
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ω
Nominal Power Handling	500 W(AES)
Continuous Program Power capacity	1000 W
Sensitivity	95 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	60-3000 Hz
Voice Coil Diameter	99.3 mm (4 in)
Voice Coil Material	CCA-R
Former Material	Glass fiber
Effective Piston Diameter	262.4 mm (10.3 in)
Flux Density	1.2T

Frequency response and Impedance curve



C12-400N

Ferrite Magnet Die-cast Chassis Driver

General Specifications

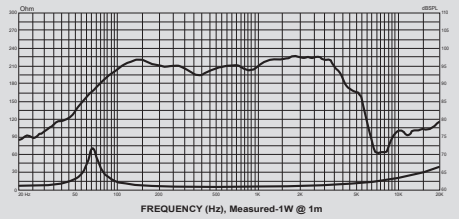
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ω
Nominal Power Handling	400 W(AES)
Continuous Program Power capacity	800 W
Sensitivity	96 dB

Physical Information

Magnet Material	Neodymium
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	Straight Pole
Woofer Cone Treatment	No Treatment

Frequency Range	60-4000 Hz
Voice Coil Diameter	76.2 mm (3.0 in)
Voice Coil Material	EI-ALW (in+out)
Former Material	Glass fiber
Effective Piston Diameter	262.4 mm (10.3 in)
Flux Density	1.3T

Frequency response and Impedance curve



C12-400F

Ferrite Magnet Die-cast Chassis Driver

General Specifications

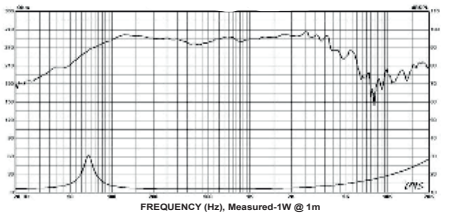
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	400 W(AES)
Continuous Program Power capacity	800W
Sensitivity	95 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Cast Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	Straight Pole
Woofer Cone Treatment	No Treatment

Frequency Range	50-4000 Hz
Voice Coil Diameter	76.2 mm (3.0 in)
Voice Coil Material	AL-W
Former Material	GSV
Effective Piston Diameter	262.4 mm (10.3 in)
Flux Density	1.3T

Frequency response and Impedance curve



SNII-12MB

Ferrite Magnet Die-cast Chassis Driver

General Specifications

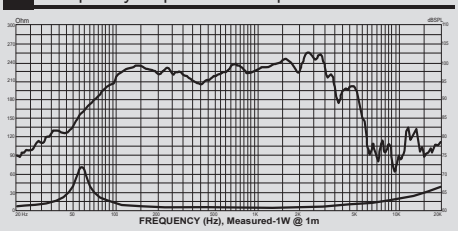
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ω
Nominal Power Handling	600 W(AES)
Continuous Program Power capacity	1200 W
Sensitivity	100 dB

Physical Information

Magnet Material	Neodymium
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	Straight Pole
Woofer Cone Treatment	No Treatment

Frequency Range	60-2000 Hz
Voice Coil Diameter	76.2 mm (3.0 in)
Voice Coil Material	ALW (in+out)
Former Material	Glass fiber
Effective Piston Diameter	265 mm (10.4in)
Flux Density	1.2T

Frequency response and Impedance curve



SINCE 1991
The Ultimate Loudspeaker

Low Frequency 12”

12BM-300B v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

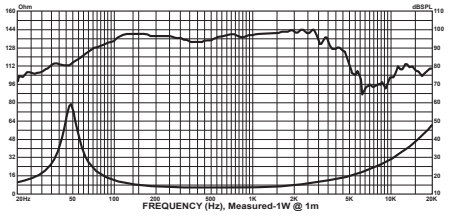
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ω
Nominal Power Handling	300 W(AES)
Continuous Program Power capacity	600 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	45-3000 Hz
Voice Coil Diameter	76.2 mm (3.0 in)
Voice Coil Material	CCA-W
Former Material	Glass fiber
Effective Piston Diameter	264 mm (10.4 in)
Flux Density	1.2T

Frequency response and Impedance curve



12BM-500B

Ferrite Magnet Die-cast Chassis Driver

General Specifications

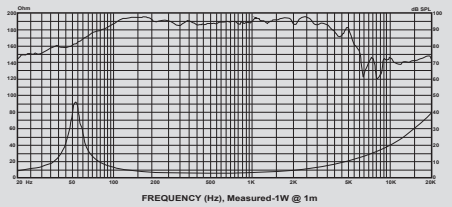
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	500 W(AES)
Continuous Program Power capacity	1000 W
Sensitivity	96 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Aluminium
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	50-3000 Hz
Voice Coil Diameter	82.5 mm (3.25 in)
Voice Coil Material	CCA-W
Former Material	Glass fiber
Effective Piston Diameter	264 mm (10.4 in)
Flux Density	1.1T

Frequency response and Impedance curve



E12-200S v2

Ferrite Magnet Die-cast Chassis Driver

General Specifications

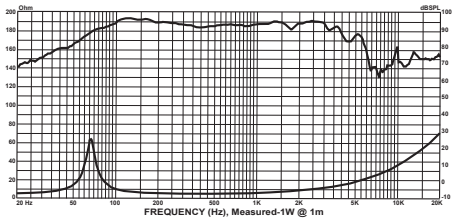
Nominal Diameter	305 mm (12 in)
Nominal Impedance	8 Ω
Nominal Power Handling	200 W(AES)
Continuous Program Power capacity	400 W
Sensitivity	95 dB

Physical Information

Magnet Material	Ferrite
Basket Material	Heavy Duty Stamp Steel
Surround Material	Cloth
Cone Material	Paper
Dust Cap Material	Paper
Spider Material	Cotton (Single)
Gasket	EVA
Pole Design	T-Pole
Woofer Cone Treatment	No Treatment

Frequency Range	50-3500 Hz
Voice Coil Diameter	63.7 mm (2.5 in)
Voice Coil Material	CCA-W
Former Material	Glass fiber
Effective Piston Diameter	258.7 mm (10.1 in)
Flux Density	1.1T

Frequency response and Impedance curve



SINCE 1991
The Ultimate Loudspeaker

FD SERIES / High Frequency

FD-100/2
Ferrite Magnet Compression Driver

General Specifications

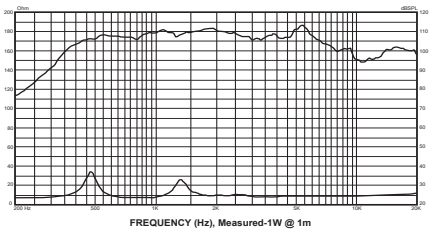
Throat Diameter	50.8 mm (2 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	150 W(AES)
Continuous Program Power capacity	300 W
Sensitivity	110 dB

Mounting and Shipping Info

Overall Diameter	226 mm (9 in)
Mounting hole diameter	4xM6 PCD 101.6mm
Depth	113.7 mm
Net Weight	12.6 kg / 27.8 lb
Shipping Units	1 pcs
Shipping Weight	13.4 kg / 29.5 lb
Shipping Box	265 x 265 175 mm
Service Kit	
Replacement Coil	Model number

Frequency Range	500-18000 Hz
Voice Coil Diameter	99.1 mm (4 in)
Winding Materia	AL-R (Flat aluminium wire)
Diaphragm Material	Titanium
Recommended Crossover	0.8KHz
Flux Density	1.9T

Frequency response and Impedance curve



FD-75/2
Ferrite Magnet Compression Driver

General Specifications

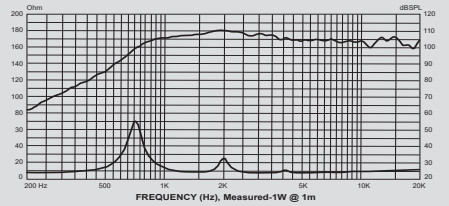
Throat Diameter	50.8 mm (2 in)
Nominal Impedance	8 Ohm
Nominal Power Handling	100 W(AES)
Continuous Program Power capacity	200 W
Sensitivity	110 dB

Mounting and Shipping Info

Overall Diameter	186 mm (7.3 in)
Mounting hole diameter	4xM6 PCD 101.6mm
Depth	75.6 mm
Net Weight	75.6 mm
Shipping Units	1 pcs
Shipping Weight	6.2 kg / 13.7 lb
Shipping Box	195 x 195 x 90 mm
Service Kit	
Replacement Coil	Model number

Frequency Range	800-18000 Hz
Voice Coil Diameter	76.2 mm (3 in)
Winding Material	AL-R (Flat aluminium wire)
Diaphragm Material	Titanium
Recommended Crossover	1.2KHz
Flux Density	1.9 T

Frequency response and Impedance curve



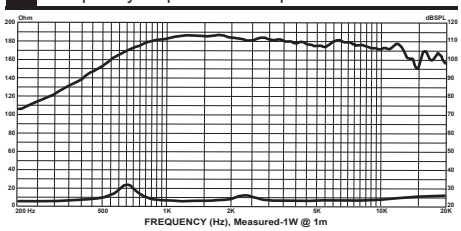
SD-75BN
Neodymium Magnet Compression Driver

General Specifications

Throat diameter	35.5 mm / 1.4 in
Peak Power	400 W
AES Power	100 W
Nominal impedance	8 Ohm
Sensitivity (1W/1m)	110 dB
Frequency range	800 - 18000 Hz
Recommended min.crossover(12dB/oct)	1200 Hz
Magnet type	Neodymium
Diaphragm material	Titanium
Voice coil diameter	76.2 mm / 3 in
Voice coil material	AL-R
Mounting type	Bolt On
Overall diameter	115 mm / 4.5 in
Mounting hole diameter	4xM6 PCD 89mm 4xM6 PCD 100mm

Unit weight	1.5 kg / 3.3 lb
Shipping weight (12 pcs)	19.6 kg / 43.3 lb
Packaging dimension WxDxH	380x260x170 mm 15x10.2x6.7 in

Frequency response and Impedance curve



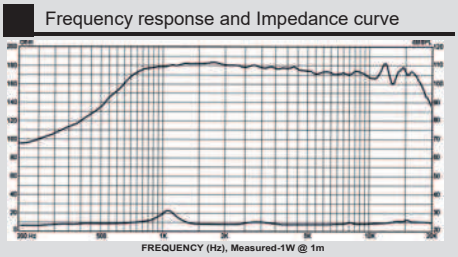
SD-63BN
Neodymium Magnet Compression Driver

General Specifications

Throat diameter	1.4 in / 35 mm
Peak Power	400 W
AES Power	80 W
Nominal impedance	8 Ohm
Sensitivity (1W/1m)	108 dB
Frequency range	1000 - 20000 Hz
Recommended min.crossover(12dB/oct)	1500 Hz
Magnet type	Neodymium
Diaphragm material	Titanium
Voice coil diameter	63.5mm/2.5 in
Voice coil material	AL-R
Mounting type	Bolt On
Overall diameter	115 mm / 4.5 in
Mounting hole diameter	4xM6 PCD 89mm 4xM6 PCD 100mm

Unit weight	1.2 kg/2.7 lb
Shipping weight (12 pcs)	15.0 kg/33.0 lb
Packaging dimension HxWxD	380x260x160 mm

Frequency response and Impedance curve



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The Ultimate Loudspeaker

High Frequency

BM-D760

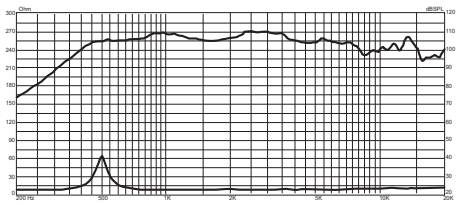
Ferrite Magnet Die-cast Chassis Driver

General Specifications

Throat diameter	50.8 mm / 2in
Peak Power	440W
AES Power	110W
Nominal impedance	8 ohm
Sensitivity (1W/1m)	112 dB
Frequency range	1200Hz-20kHz
Recommended min.crossover(12dB/oct)	800Hz 12dB/oct
Magnet type	Ferrite
Diaphragm material	Titanium
Voice coil diameter	72.2 mm / 2.84 in
Voice coil material	ALR
Mounting type	Bolt on
Overall diameter	174mm / 6.9 in
Mounting hole diameter	4 Ø6mm PCD 101.6 mm

Unit weight	4.8 kg / 10.5 lb
Shipping weight (12 pcs)	15.3 kg / 3pcs
Packaging dimension	340x215x230mm

Frequency response and Impedance curve



BM-D750

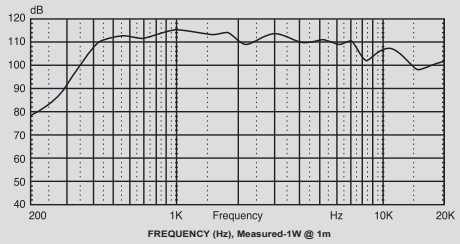
High Frequency Ferrite Compression Driver

General Specifications

Throat diameter	50 mm / 2 in
Peak Power	400 W
AES Power	100 W
Nominal impedance	8 Ohm
Sensitivity (1W/1m)	108 dB
Frequency range	500 - 18000 Hz
Recommended min.crossover(12dB/oct)	1000 Hz
Magnet type	Ferrite
Diaphragm material	Titanium
Voice coil diameter	72.2 mm / 2.84 in
Voice coil material	AL-R
Mounting type	Bolt On
Overall diameter	169 mm / 6.6 in
Mounting hole diameter	4xM6 PCD 101mm

Unit weight	4.7 kg / 10.6 lb
Shipping weight (12 pcs)	15.1 kg / 33.3 lb
Packaging dimension	340x215x240 mm
WxDxH	13.4x8.5x9.4 in

Frequency response and Impedance curve



BM-D750 (II)

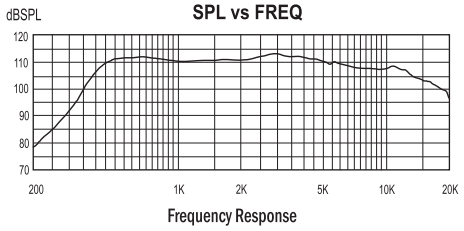
High Frequency Ferrite Compression Driver

General Specifications

Throat diameter	50.8 mm / 2 in
Peak Power	400 W
AES Power	100 W
Nominal impedance	8 Ohm
Sensitivity (1W/1m)	110 dB
Frequency range	800 - 18000 Hz
Recommended min.crossover(12dB/oct)	1000 Hz
Magnet type	Ferrite
Diaphragm material	Titanium
Voice coil diameter	72.2 mm / 2.8 in
Voice coil material	AL-R
Mounting type	Bolt On
Overall diameter	169 mm / 6.6 in
Mounting hole diameter	4xM6 PCD 101.6mm

Unit weight	4.9 kg / 10.8 lb
Shipping weight (12 pcs)	21.2 kg / 46.7 lb
Packaging dimension	400x400x140 mm
WxDxH	15.7x15.7x5.5 in

Frequency response and Impedance curve



BM-D460 / BM-D460S

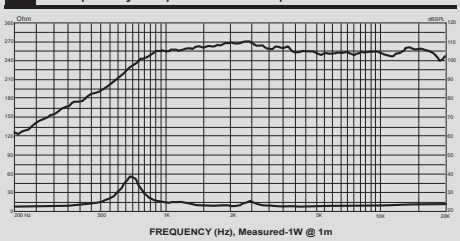
Ferrite Magnet Die-cast Chassis Driver

General Specifications

Throat diameter	25 mm / 1in
Peak Power	320W
AES Power	80W
Nominal impedance	8 ohm
Sensitivity (1W/1m)	108 dB
Frequency range	1500Hz-18kHz
Recommended min.crossover(12dB/oct)	2.2Hz 12dB/oct
Magnet type	Ferrite
Diaphragm material	Titanium
Voice coil diameter	44.4 mm / 1.75 in
Voice coil material	ALR
Mounting type	Bolt on / Screw on
Overall diameter	134mm / 5.3 in
Mounting hole diameter	4 Ø6mm PCD 76.2 mm

Unit weight	2.5 kg /5.5 lb
Shipping weight (12 pcs)	20 kg /8 pcs
Packaging dimension	310x310x195mm

Frequency response and Impedance curve



Installation Products & Passive Crossovers

Weather Proof

MODEL	SW-12D	SW-8C	SW-181S	Gallardo-4
Type	Passive / 2-Way	Passive / 2-Way	Passive Subwoofer	Passive / 2-Way
Woofer Size, Voice Coil	12 in, 3 in	8 in, 2 in	18 in, 3 in	2x4 in, 1 in
Sensitivity (1w/1m)	103 dB	97 dB	97 dB	87 dB
-10dB Response	70-20000 Hz	90-20000 Hz	35-130Hz	80-18000 Hz
Power Handling	600 W	200 W	600 W	50 W
Maximum Peak SPL	133 dB	124 dB	129 dB	107 dB
Dispersion (HxV)	60° x 40°	90° x 40°	-	90° x 40°
Impedance	8Ω	8Ω/Hi-Z Switchable	8Ω	8Ω/Switchable
Construction	UV Protected HDPE Resin	UV Protected HDPE Resin	UV Protected HDPE Resin	Plastic Polycarbonate
Pole Mount	Accessory Only	Molded In & Accessory	Optional Accessory	Mounting Bracket
Weight	22 kg/48.5 lb	11 kg/24.3 lb	40 kg/88.2 lb	5 kg/11 lb

MODEL	XT-10	XT-8	A-100FNT
Type	Passive / 2-Way	Passive / 2-Way	Passive / 2-Way
Woofer Size, Voice Coil	10 in, 2 in	8 in, 2 in	6.5 in
Sensitivity (1w/1m)	93 dB	92 dB	92 dB
-10dB Response	60-20000 Hz	65-20000 Hz	75-18000 Hz
Power Handling	200 W	200 W	100 W
Maximum Peak SPL	123 dB	122 dB	-
Dispersion (HxV)	90° x 65°	90° x 65°	-
Impedance	8Ω	8Ω	8Ω
Construction	Plywood with PU	Plywood with PU	High Impact Polycarbonate
Pole Mount	1 Top Hat Receptacle	1 Top Hat Receptacle	1 U-Bracket, 2 Recessed M8
Weight	13 kg/28.7 lb	10 kg/22 lb	5.1 kg/11.2 lb

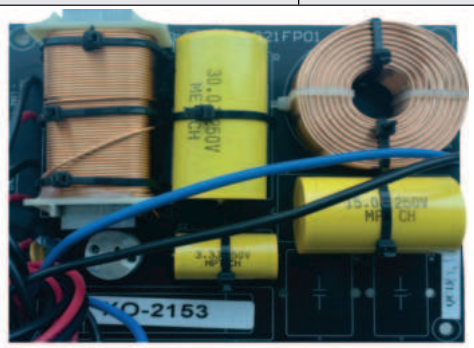
MODEL	Eco-100F	MS-50
Type	Passive / 2-Way	Mini Satellite Cabinet
Woofer Size, Voice Coil	-	3 in, 0.5 in
Sensitivity (1w/1m)	92 dB	87 dB
-10dB Response	75Hz – 18kHz	200-20000 Hz
Power Handling	100 W	50 W
Maximum Peak SPL	-	-
Dispersion (HxV)	-	-
Impedance	8Ω	8Ω
Construction	High Impact Polycarbonate	Magnetically Shielded
Pole Mount	-	-
Weight	5.1 kg /11.2 lbs	0.71 kg/1.57 lb

Passive Crossovers, Spare Parts

Passive Crossovers

MODEL	XO-2151	XO-2152	XO-2153	XO-1151
Type	Quasi 3-Way	Quasi 3-Way	Quasi 3-Way	2-Way
Frequency	1800 Hz	2500 Hz	2500 Hz	2500 Hz
Slope	12 dB/Octave	12 dB/Octave	12 dB/Octave	12 dB/Octave
Power Handling	1200 W(RMS)	600 W(RMS)	600 W(RMS)	300 W(RMS)
Impedance	4Ω(LF), 8Ω(HF)	4Ω(LF), 8Ω(HF)	4Ω(LF), 8Ω(HF)	8Ω(LF), 8Ω(HF)
Recommended Drivers	LF: 2 x P150/2226, 2 x C15-600EL HF: BM-D760, BM-D750, BM-D750(II)	LF: 2 x 15BM-300B, 2 x 15BM-350B HF: BM-D460, BM-D450	LF: 2 x 15BM-300B, 2 x 15BM-350B HF: BM-D760, BM-D750, BM-D750(II)	LF: 2 x 15BM-300B, 2 x 15BM-350B HF: BM-D460, BM-D450
Recommended Horn	PH-2380	PH-3220	PH-2380	PH-3220

MODEL	XO-750	XO-450
Type	1-Way	1-Way
Frequency	2000 Hz	2500 Hz
Slope	12 dB/Octave	12 dB/Octave
Power Handling	100 W(RMS)	80 W(RMS)
Impedance	8Ω(HF)	8Ω(HF)
Recommended Drivers	HF: BM-D760, BM-D750, BM-D750(II)	HF: BM-D460, BM-D450
Recommended Horn	PH-2380	PH-3220



Spare Parts




MODEL	VC-001	VC-004	DT-001	DT-002
Type	FITS: JBL 2268, 2265, 2262, SRX Series	FITS: JBL 2268, 2265, 2262, SRX Series	FITS: JBL 2440 2441, 2445, 2446, 2447, 2450, 2452 P.AUDIO PA-D99, PA-DE-99	FITS: JBL 2440, 2441, 2445, 2446, 2447, 2450, 2452 P.AUDIO PA-D99, PA-DE-99
Voice Coil Size			4 in	4 in


MODEL	DT-012	DT-005
Type	FITS: JBL 2426, 2425 P.AUDIO PA-D45, PA-D44	FITS: JBL 2412 P.AUDIO PA-D25
Voice Coil Size	1.75 in	1 in

P Audio Replacement Diaphragms :
P Audio makes replacement high frequency diaphragms for all P Audio HF drivers plus many of the popular HF drivers used in various manufacturers cabinets.

SINCE 1991
The Ultimate Loudspeaker

HD+ Series Amplifiers

Applications: Rental Companies | House of Worship | Entertainment Centers

			
MODEL	**HD-80+**	**HD-60+**	**HD-40+**
8Ω Stereo	1450 W x 2	1000 W x 2	800 W x 2
4Ω Stereo	2250 W x 2	1650 W x 2	1400 W x 2
2Ω Stereo	3600 W x 2	2400 W x 2	2200 W x 2
8Ω Bridge	4500 W	3300 W	2800 W
4Ω Bridge	7200 W	4800 W	4400 W
Frequency Response	20-20000 Hz		
THD+N	<0.5%		
S/N Rate (A Weighted)	≥96 dB		
Damping Factor	>1200		
Crosstalk	≥60 dB		
Slew Rate	>12V/μs		
Input Sensitivity	0.775 V/1 V/32 dB		
Input Impedance	20 kΩ(Bal)/10 kΩ(Unbal)		
Voltage Gain	43.4 dB	41.9 dB	40.5 dB
Cooling	Air flow from front to rear		
Protection	Soft start, VHF, DC, Short, Circuit, Over load, Clip limit, Peak current limit over heat, Progressive volume		
Input	Balance input XLR-F, Balance output XLR-M		
Output	Two red and black Binding posts NL4 SPEAKON		
Front Panel Indicator	Rock power Switch/Independent channel volume control knob/Power indicator/Signal indicator/ Clipping indicator/Protection instructions		
Rear Panel Indicator	Stereo/Parallel/Bridge mode selector switch, sensitivity selector switch, soft cut switch		
Product Dimensions	483x503x133 mm(3U)	483x503x133 mm(3U)	483x503x133 mm(3U)
Packaging Dimensions	620x585x210 mm(3U)	620x585x210 mm(3U)	620x585x210 mm(3U)
Gross Weight (±2.5 kg)	36 kg	33 kg	29 kg

Audio Electronics and Systems

HP Series Power Amplifiers

Models

HP-9000
HP-7000
HP-5000
HP-4000

Specifications

Model	HP-9000	HP-7000	HP-5000	HP-4000
RMS Output Power (Per Channel, 8Ω)	2 x 1900 W	2 x 1500 W	2 x 1150 W	2 x 800 W
RMS Output Power (Per Channel, 4Ω)	2 x 2800 W	2 x 2300 W	2 x 1800 W	2 x 1300 W
RMS Output Power (Per Channel, 2Ω)	2 x 4000 W	2 x 3600 W	2 x 2400 W	2 x 1750 W
Rated Power (Bridge 8Ω)	1 x 4800 W	1 x 4500 W	1 x 3450 W	1 x 2550 W
Rated Power (Bridge 4Ω)	1 x 9200 W	1 x 7200 W	1 x 4600 W	1 x 3400 W
S/N Ratio (A Weight)	≥108dB	> 80 dB	> 80 dB	> 80 dB
Frequency Response (+0/-0.5dB)	20 Hz - 20 kHz			
Slew rate	≥35V/μs	>20V/μs	>20V/μs	>20V/μs
Damping Factor	≥1500	>1300	>1300	>1300
THD (10% Rated Power)	≤0.1%	<0.02%	<0.02%	<0.02%
Input sensitivity	0.775V / 1.0V / 1.4V			
Crosstalk	≥65dB	≥60dB	≥60dB	≥60dB
Input Connector	Jack & female Neutrik XLR			
Input Impedance (bal/unbal)	20kΩ/10kΩ			
Output Connectors	Binding post & Neutrik Speakon			
Mode	Stereo / Parallel / Bridge			
Dimensions (H × W × D)(mm)	483 x132x483mm	483 x 503 x 133 (3U)		
Net weight	44.0Kgs	36.8 Kgs	-	-

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New V-01 Series Power Amplifiers

Models

V-7001
V-5001
V-4001

Specifications

Model	V-7001	V-5001	V-4001
RMS Output Power (Per Channel, 8Ω)	1400 W	1000 W	700 W
RMS Output Power (Per Channel, 4Ω)	2200 W	1600 W	1200 W
RMS Output Power (Per Channel, 2Ω)	3520 W	2300 W	1700 W
Rated Power (Bridge 8Ω)	4400 W	3200 W	2400 W
Rated Power (Bridge 4Ω)	7040 W	4600 W	3400 W
Input Sensitivity	0.775V, 32dB, 26dB Selectable		
S/N Ratio (A Weight)	>108 dB		
Frequency Response (+0/-0.25dB)	20Hz - 20 kHz		
Class	H	H	H
Damping Factor	>880 : 1	>880 : 1	>700 : 1
THD (10% Rated Power)	0.05%		
Input Connector	2 x XLR		
Input Impedance	20 KΩ Balanced, 10 KΩ unbalanced		
Output Connectors	Speakon + Binding Post		
Cooling	2 x Fan airflow from back to front		
Power Supply	230 V AC / 50Hz		
Dimensions (H × W × D)(mm)	133 x 483 x 462	133 x 483 x 407	133 x 483 x 407
Net Weight (1 piece/pack)	32.4 Kgs	31.2 Kgs	27.2 Kgs
Gross Weight	38 Kgs	33 Kgs	32 Kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

V Series Power Amplifiers

Models

V-4000
V-5000
V-7000
V-9000

Specifications

Model	V-9000	V-7000	V-5000	V-4000
RMS Output Power (Per Channel, 8Ω)	1600 W	1400 W	1000 W	700 W
RMS Output Power (Per Channel, 4Ω)	2600 W	2200 W	1600 W	1200 W
RMS Output Power (Per Channel, 2Ω)	3700 W	3520 W	2300 W	1700 W
Rated Power (Bridge 8Ω)	5200 W	3570 W	2500 W	2000 W
Rated Power (Bridge 4Ω)	7400 W	5720 W	3600 W	3000 W
Input Sensitivity	0.775V, 1V, 1.4V Selectable			
S/N Ratio (A Weight)	>108 dB			
Frequency Response (+0/-0.25dB)	20Hz - 20 kHz			
Class	H	H	H	H
Damping Factor	>1000 : 1	>880 : 1	>880 : 1	>700 : 1
THD (10% Rated Power)	Less than 0.02%			
Input Connector	2 x XLR			
Input Impedance	20 KΩ Balanced, 10 KΩ unbalanced			
Output Connectors	Speakon + Binding Post			
Cooling	Dual 2-Speed Fans and Heatsinks			
Power Supply	11A@230V AC	15.8A@230V AC	12.5A@230V AC	10A@230V AC
Dimensions (H × W × D)(mm)	133 x 483 x 524	133 x 483 x 465	132 x 483 x 410	132 x 483 x 410
Net Weight (1 piece/pack)	32.2 Kgs	33 Kgs	28 Kgs	27.5 Kgs
Gross Weight	40 Kgs	38 Kgs	33 Kgs	32 Kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New V Series Power Amplifiers

Models

V4.25
V2.70

Specifications

Model	V4.25	V2.70
8Ω Stereo	4 × 1300 W	2 × 2300 W
4Ω Stereo	4 × 2100 W	2 × 3900 W
2Ω Stereo	4 × 2500 W	2 × 6000 W
Frequency Response (+0/-0.25dB)	20 Hz - 20 kHz	20 Hz - 20 kHz
THD+N	<0.05%	<0.05%
S/N Rate	> 80 dB	> 90 dB
Damping Factor	> 800	-
Input Sensitivity	32 dB	32 dB
Input Impedance (bal/unbal)	20kΩ/10kΩ	20kΩ/10kΩ
Voltage gain (8Ω)	32 dB	32 dB
Output circuitry	Class I™	Class I™
Cooling	Air flow from front to rear	Air flow from front to rear
Input	Balanced input XLR-F, Balanced output XLR-M	Balanced input XLR-F, Balanced output XLR-M
Output	Nl4 SPEAKON	NL4 SPEAKON
Dimensions (mm)	483 × 412 × 89	483 × 412 × 89
Power Supply	16A power cord	2.5 mm² power cord
Gross Weight	15.6 Kg	15.9 Kg

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

PD Series Power Amplifiers

Models

PD-2500 MK2
PD-4000 MK2
PD-5000 MK2

Specifications

Model	PD-5000	PD-4000	PD-2500
RMS Output Power (Per Channel, 8Ω)	1200 W	900 W	500 W
RMS Output Power (Per Channel, 4Ω)	1800 W	1200 W	750 W
RMS Output Power (Per Channel, 2Ω)	2500 W	1800 W	1300 W
Rated Power (Bridge 8Ω)	3600 W	2400 W	1500 W
Rated Power (Bridge 4Ω)	5000 W	3600 W	2600 W
Input Sensitivity	0.775, 1V, 1.4 Selectable		
S/N Ratio (A Weight)	> 107 dB		
Frequency Response (+0/-0.25dB)	20Hz to 20 kHz		
Class	H	H	AB
Damping Factor	>1000 : 1	>900 : 1	>700 : 1
THD (10% Rated Power)	0.05%		
Input Connector	2 x XLR		
Input Impedance	20KΩ Balanced, 10 KΩ Unbalanced		
Output Connectors	Speakon + Binding post		
Cooling	2 x Fan Airflow from front to back		
Power Supply	230 VAC / 50Hz		
Dimensions (H × W × D)(mm)	132 x 483 x 498	132 x 483 x 498	89 x 483 x 496
Net Weight (1 piece/pack)	39 Kgs	38 Kgs	23 Kgs
Gross Weight	52 Kgs	47 Kgs	33 Kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

PD Series Power Amplifier

Models

PD-1600Q

Description

Three power Configurations; 4 channel 3 channel or 2 channel. Individual 4 channel inputs and 2 channels inputs. Independent volume control 4 channels, independent signal indication, Independent clip indication Bridge mode switch for channel 1 & 2 and channel 3&4. The PD-Quad channel series offer maximum flexibility without compromising on power or performance. The PD-1600Q comes with additional bass and treble controls.

Specifications

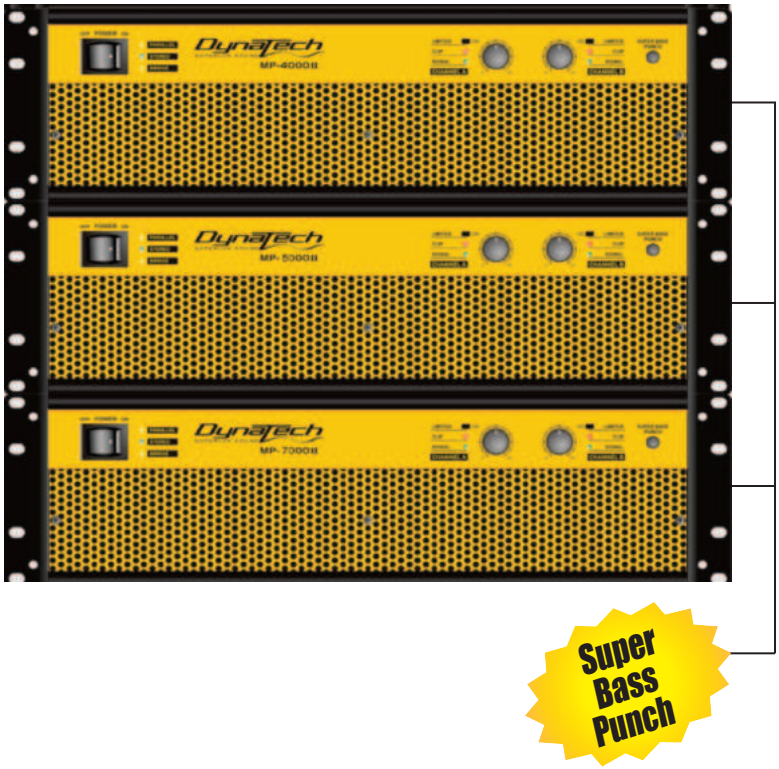
Model	**PD-1600Q**
RMS Output Power (Per Channel, 8Ω)	4 x 200 W
RMS Output Power (Per Channel, 4Ω)	4 x 300 W
Rated Power (Bridge 8Ω)	2 x 600 W
Rated Power (Bridge 4Ω)	2 x 800 W
Input Sensitivity	0.775 V
S/N Ratio (A Weight)	>100 dB
Frequency Response (+0/-0.25dB)	20 Hz to 20 kHz
Class	AB
Damping Factor	>200 : 1
THD (10% Rated Power)	0.05%
Input Connector	4 x XLR
Input Impedance	20KΩ Balanced, 10 KΩ Unbalanced
Output Connectors	Binding post
Cooling	2 x Fan Airflow from front to back
Power Supply	230 VAC / 50Hz
Dimensions (H × W × D)(mm)	89 x 483 x 360
Net Weight (1 piece/pack)	16 Kgs
Gross Weight	19 Kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

MP Series Power Amplifiers

Models

MP-4000 II
MP-5000 II
MP-7000 II



Super Bass Punch

Specifications

Model	MP-7000 II	MP-5000 II	MP-4000 II
RMS Output Power (Per Channel, 8Ω)	1400 W	1000 W	700 W
RMS Output Power (Per Channel, 4Ω)	2400 W	1600 W	1200 W
RMS Output Power (Per Channel, 2Ω)	3000 W	2100 W	1600 W
Rated Power (Bridge 8Ω)	4800 W	3200 W	2400 W
Rated Power (Bridge 4Ω)	6000 W	4200 W	3400 W
Input Sensitivity	0.775V, 1 V, 1.4V Selectable		
S/N Ratio (A Weight)	>108 dB		
Frequency Response (+0/-0.25dB)	20-20 kHz		
Class	H	H	H
Damping Factor	>1000 : 1	>900 : 1	>800 : 1
THD (10% Rated Power)	0.05%		
Input Connector	2 XLR		
Input Impedance	20 KΩ Balanced, 10 KΩ unbalanced		
Output Connectors	Speakon + Binding Post		
Cooling	2 x Fan airflow from back to front		
Power Supply	230 V AC / 50Hz		
Dimensions (H × W × D)(mm)	133 x 483 x 465	132 x 483 x 410	132 x 483 x 410
Net Weight (1 piece/pack)	32.5 Kgs	29.2 Kgs	25.3 Kgs
Gross Weight	38 Kgs	33 Kgs	32 Kgs

SD-21EL

SD-18EL

FEATURES

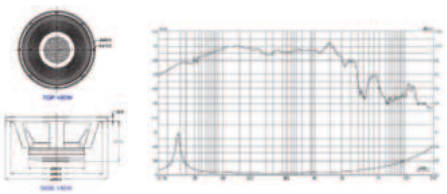
→ 5” Large Format Voice Coil
→ 8800 Watts Peak Power Handling
→ Active Balanced Cooling
→ Ferrite Magnetics
→ Double Spider Suspension
→ Heavy-Duty Cast Aluminum Chassis For Increased Rigidity
→ Power Compression Only 1.6dB at Rated Power
→ A B/L in Excess of 30 T/m
→ Double Suspension
→ Appropriate For Applications as Diverse as Scoop Bins, Conventional Reflex Cabinets and Horn Loaded Systems

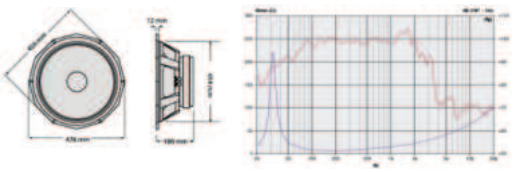
SPECIFICATIONS

	SD-21EL	SD-18EL
Nominal Diameter	530 mm/21 in	460 mm/18 in
Power Rating	2200 W(AES)	1800 W(AES)
Nominal Impedance	8Ω	8Ω
Sensitivity	98 dB	98 dB
Frequency Range	30-300 Hz	30-200 Hz
Chassis Type	Aluminum	Aluminum
Magnet Type	Ferrite	Ferrite
Magnet Weight	4.3 kg/150.8 oz	150.8 oz
Voice Coil Diameter	127 mm/5 in	127 mm/5 in
Coil Material	Aluminum Wire	Copper
Former Material	Glass Fiber	Glass Fiber
Cone Material	Pulp Paper	Paper
Surround Material	Cloth	Cloth
X-max	7.5 mm	6.3 mm
Gap Depth	-	12 mm/0.47 in
Packing Dimension WxDxH (mm)	580 x 580 x 300	505 x 505 x 290
Net Weight	19.5 kg/42.99 lb	18.5 kg/40.78 lb
Shipping Weight	20 kg/44 lb	19.0 kg/41.88 lb

SMALL SIGNAL PARAMETERS

Re	5.8Ω	5.22Ω
Fs	32.8 Hz	33.15 Hz
Mms	315.02 g	215.24 g
Qms	9.526	15.42
Qes	0.378	0.24
Qts	0.364	0.24
Vas	292.92 lt	2.3.84 lt
SD	0.1662 m^2	1164.16 cm^2
BI	31.55 Tm	30.99 Tm
Cms	NA	107 µm/N
Le (at 1kHz)	0.81 mH	1.33 mH





DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New MS-14 Wireless Microphone System

MS-14H Handheld Microphone

- **MS14HH**
- **MS14HL**
- **MS14LL**

MS-14R Receiver

4 Antenna and Rack mountable

The Dynatech MS-14 Wireless microphone system is very easy to install and convenient to use, the first choice for singers.

Receiver

Carrier Frequency	: UHF640-690MHz
Bandwidth	: 50MHz
Dynamic Range	: 96dB
Distortion	: <0.1%
Frequency Response	: 30-20KHz/±2dB
Signal/Noise Ratio	: 96dB
Sensitivity	: -95dBm
Power Supply	: DC12V 1A
Audio Output	: 1x6.3mm, 2xXLR balance output

Handheld & Bodypack Microphone

Carrier Frequency	: UHF640-690MHz
Bandwidth	: 50MHz
Frequency Switch	: IR SYNC
Output Power	: 10mW-30mW
Harmonic Radiation	: <-50 dBc
Battery	: 2×1.5V AA battery
Battery Life	: >5h

FEATURES

- Unique digital 16 bit ID pilot technology, no crosstalk disturbance even in the same frequency.
- LCD display on receiver show frequency and battery condition.
- Adopt Single chip design, with true diversity function to avoid dead point.
- Auto frequency scanning and user set frequency function.
- Suitable for stages, ballrooms, conference rooms, speech and home entertainment.
- Ideal distance: longer than 80M in open space.

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

G2 Wireless Microphone System

G2H Handheld Microphone

G2L Bodypack

G2 Series

Professional UHF Wireless Microphone System

- **G2R | 2 x G2HH**
- **G2R | 1 x G2H | 1 x G2L**
- **G2R | 2 x G2LL**

RECEIVER

Carrier Frequency: UHF640-690MHz

Bandwidth: 50MHz

Dynamic Range: 96dB

Distortion: <0.3%

Frequency Response: 30Hz-20KHz/±2dB

Signal/Noise Ratio: 96dB

Sensitivity: -95dBm

Power Supply: DC14V, 400mA

Audio Output: 1×6.3mm, 2×XLR balanced output

TRANSMITTER

Carrier Frequency: UHF640-690MHz, optional

Bandwidth: 50MHz

Frequency Switch: IR SYNC

Output Power: 30mW

Harmonic Radiation: <-50 dBc

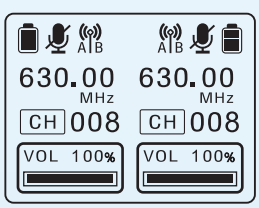
Battery: 2×1.5V AA battery

Battery Life: >5h

FEATURES

- Unique digital 16 bit ID pilot technology, no crosstalk disturbance even in same frequency.
- Display on receiver and transmitter show frequency and battery condition.
- Adopt single chip design, with multi-frequency selecting function.
- Suitable for stages, ballrooms, conference rooms, speech and home entertainment.
- Ideal distance: 80M in open space.

RECEIVER DISPLAY



Power of working handheld microphone

MUTE symbol

A|B Diversity signal symbol

630.00 MHz Receiver working frequency is 630.00MHz;

CH 008 Channel 008

VOL 100% Receiver volume

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New SC-90 Professional In-Ear Monitoring System

Bodypack receiver

Power supply: 3V (2X1.5V AA battery)

Harmonic distortion: < 0.5%

SNR: >90dB

Image rejection: > 80dB

Receive sensitivity: <10dBuV(SINAD=30dB)

Earphone impedance: 32 ohm

Transmitter

Power supply: DC14V 400mA

Modulation: FM

Image interference: >60dB

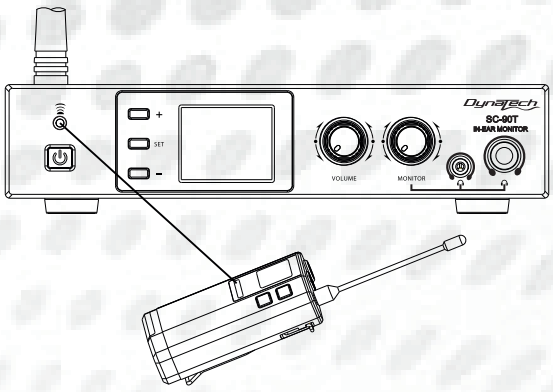
Frequency stability: ±0.005%

Harmonic distortion: < 0.5%

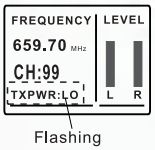
Earphone impedance: 32 ohm

Features

- UHF 660-690 MHz
- Phased Locked Loop (PLL) Frequency Stabilization
- One transmitter Synced with Multiple Receivers
- 100 Preset Frequency Channels
- Transmitter TFT Display and Receiver OLED Display.
- High/Low Transmitter Power Mode Switch
- 12 dB PAD Switch
- Mono/Stereo Audio Input Switch
- Half 19” Rack Transmitter Design

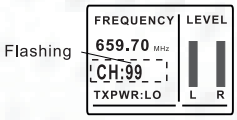


Switching Power Mode



- Long-press the SET button to unlock the screen; you will see the channel number on the display flashing;
- Press the SET button again to the TX PWR on the menu;
- Press +/- button to switch to the HI/LO power mode.

Change Channel



- Long-press the SET button to unlock the screen; you will see the channel number on the display flashing;
- Then press+/button to select a preferred channel.

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New Measurement Microphone Series

BROAD FREQUENCY RESPONSE | OMNI DIRECTIVITY | INTERFERENCE RESISTANT | EXTREMELY LIGHTWEIGHT

M1

Measurement Microphone

The M1 is a measurement microphone which has been designed specifically for measuring sound reinforcement and PA-system. It is designed to work with spectrum analysers for measuring frequency response and sound pressure levels of loud speaker systems. The M1 is the ideal microphone for the measurement of audio signals in the research, development, for reverberation testings and other applic ations. The narrow tubular construction ensures that the microphone has negligable influence on the sound field so that an increase in sound pressure is avoided with high frequencies. A natural reproduction is achieved due to the linear frequency response .

Specifications

Element	Back Electret Condenser
Polar Pattern	Omni
Frequency Response	20Hz-20KHz (±1.5dB)
Sensitivity	-40dB±3dB (1dB=1V/Pa at 1kHz)
Output Impedance	600Ω±20% (at 1kHz)
Max.Input SPL	130dB (T.H.D≤1% at 1kHz)
Equivalent Base Noise	28dBA
Power Requirements	48V (48V DC) 2mA
Output Interface	XLRM
Weight	93g
Dimensions	Φ 20 x 146mm

M2

Measurement Microphone

M2 is a new measurement microphone, it could capture wider frequency response than M1, upper limit could be reaching 30kHz, specially designing for measuring sound reinforcement and PA-systems. And is designed to work with spectrum analysers for measuring frequency response and sound pressure levels of loud speaker systems. The M2 is the ideal microphone for the measurement of audio signals in the research, development, for reverberation testings and other applications. The narrow tubular construction ensures that the microphone has negligable influence on the sound field so that an increase in sound pressure is avoided with high frequencies. A natural reproduction is achieved due to the linear frequency response.

Specifications

Element	Back Electret Condense4rmm
Electret Specification：	Φ
Polar Pattern	Omni
Frequency Response	40Hz-23KHz (±1dB) 40Hz-25KHz (±2dB) 40Hz-30KHz (±3dB) 30Hz-30KHz (±6dB) 20Hz-30KHz (±10dB)
Sensitivity	-39.5dB±3dB (1dB=1V/Pa at 1kHz)
Output Impedance	600Ω±20% (at 1kHz)
Max.Input SPL	132dB±2dB(T.H.D≤1% at 1kHz)
Equivalent Base Noise	28dBA
Power Requirements	48V (48V DC) 2mA
Output Interface	XLRM
Weight	93g
Dimensions	Φ 20 x 125mm

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New Advanced wireless Microphone System Kit

MWL Kit

ADVANCED WIRELESS MICROPHONE SYSTEM KIT

MWL Kit is a new product; it is plug-in transmitter. Which is composed of the most advanced and mature high-frequency transmission equipment. It is safe, reliable and easy to use. Each transmitter and receiver can achieve high quality wireless audio transmission. Plug in transmitter can be combined with MWL Kit mobile receiver. The receiver has the same frequency range to choose from and has the same channel library system.

Technical Parameters:

Carrier Frequency Band:	500-900 MHz (Select Within This Range)
Frequency Adjustment:	Automatic Tracking Receiver Working Channel @ Infrared Transfer / Manual Adjustment
Output Power:	H= 30mW L= 10mW
Harmonic Radiation:	<55dBc
Input Socket:	XLR Mother Seat
Input Mode:	Condenser Microphone Dynamic Microphone Line In
Frequency Response:	Microphone Mode: 80 Hz - 16000 Hz Line Mode: 30 Hz - 18000 Hz
Maximum Input Voltage:	2.5V @ 1KHz
Maximum Offset	340KHz @ 1KHz
Sensitivity Adjustment:	48dB @ 6dB Stepping
Input Low Cut:	H= 150Hz L= 75Hz
Phantom Output Voltage:	+48V
Use Battery:	AA1.5V / 1.2V Nickel Metal Hydride Battery
Charge:	Type-c Input DC5V @ ≥1000mA
Working Hours:	About 7 Hours
Size:	128mm x 47mm x 47mm
Weight Including Battery:	221 g

New Headworn Microphone

G2HW / DH2-CS

Headworn microphone for G2

- Omni-directional pickup pattern.
- Smooth frequency response.
- No proximity effect.
- High quality steel headband assures durability, mini gooseneck for best position.

Specifications

Polar pattern	Omnidirectional
Frequency Response)	60Hz–16000Hz
Sensitivity	-45dBV/Pa @1kHz ±3dB
Impedance	1.7kΩ
Self-Noise	30dB(A)
Dynamic Range	100dB
Net Weight	22.7 gram

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New X1 Wired Microphone

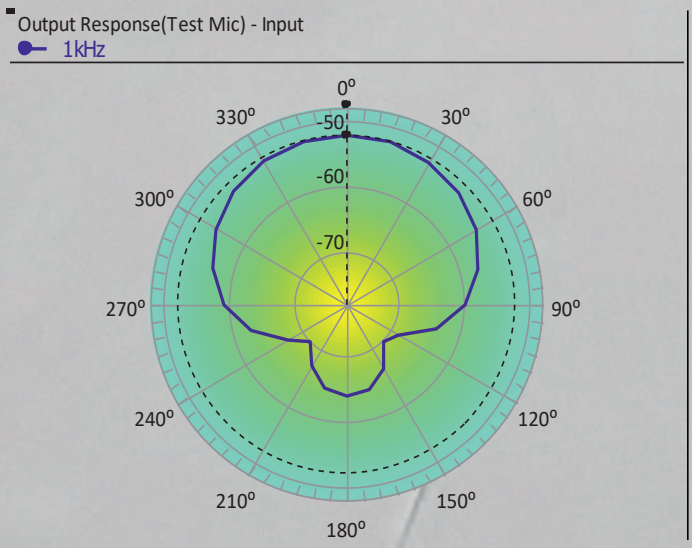
Type: Dynamic

Output Impedance: 580Ω±15% at 1KHz

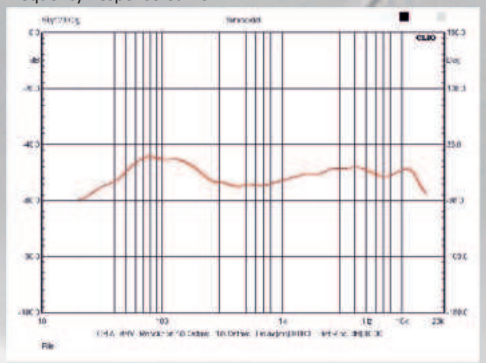
Polar Pattern: Supercardious pointing

Sensitivity: -52dB±2dB (0dB=1V / Pa) (at 1KHz)

Frequency Response: 40Hz-15KHz



Frequency Response Curve:



DynaTech SUPERIOR SOUND
Audio Electronics and Systems

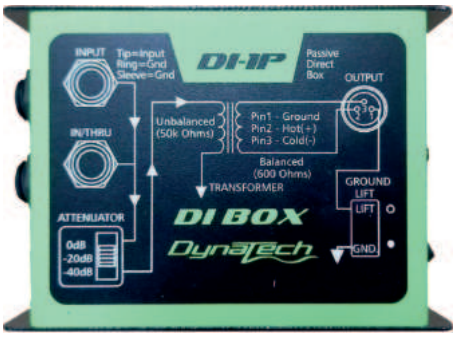
New Active & Passive DI-Box

DI-1A
Active DI-Box

Model	DI-1A	
Inputs	1/4" mono jack connector (Top hot, sleeve ground) or 3-pin XLR connector (pin 2 hot, pins 1-3 ground, unbalanced parallel link output 1/4" jack connector for feeding to other equipment or via buffer amplifier	
Attenuator	At 0dB	At 20dB
Impedance	1M Ohm	47K Ohm
Max. Input Level	+13dB	+33dB
Outputs	3-pin connector, transformer balanced output, will drive lines from 600ohm upwards. Maximum output level clip greater than +6dBu with battery or Phantom supply.	
Frequency Response	10Hz to 30KHz, ±1dB	
Noise	-108dBu "unweighted"	
THD	Less than 0.02% a 1KHz, 0dBu Output	
"Phantom Power" power requeriments	+20V DC to +48V DC	
Current Drain	"Phantom power" less than 8mA, Battery less than 2mA	
Dimensions	130 x 127 x 45mm	
Weight	0.6Kg	

DI-1P
Passive DI-Box

Model	DI-1P
Input	1/4" mono Jack connector (Tip Hot, Sleeve Ground) parallel link output 1/4" Jack connector for feeding to other equipment
Attenuator	0dB / 20dB / 40dB
Impedance	Unbalanced 50K Ohms / Balanced 600 Ohms
Output	3 pins connector, transformer balanced, will drive lines from 600 Ohms
Frequency Response	10Hz to 30KHz ±1dB
Dimensions	127 x 76 x 45mm
Weight	0.54Kg



DI-2P
Passive DI-Box

Model	DI-2P
Input L or R	RCA jack unbalanced
Load Impedance	>600 Ohms
Output L or R	XLR balanced
Frequency Response	10Hz~30kHz
Maximum Input Level	+30dB
Dimensions	110.5x73x43.3mm
Weight	570g

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New Stereo/Mono Active Crossover

PSC-234MKII
2-Way/3-Way Stereo/4-Way Mono Active

INPUT		
Connectors	XLR	
Type	Electronically servo-balanced, RF filtered	
Impedance	Balanced >50k Ohms, unbalanced >25k Ohms	
Max. Input Level	+22dBu typical, balanced or unbalanced	
CMRR	>40dB, typically >55dB at 1 kHz	
OUTPUT		
Connectors	XLR	
Type	Electronically servo-balanced, RF filtered	
Impedance	Balanced 60 Ohms, unbalanced 30 Ohms	
Max. Output Level	+20dBm, balanced / unbalanced	
PERFORMANCE		
Bandwith	20Hz to 20kHz +0 / -0.5dB	
Frequency Response	+5 Hz to -90kHz, +0 / -0.3dB	
Signal to Noise Ratio	Ref.: +4dBu, 20Hz to 20kHz, unweighted	
	Stereo Mode:	Mono Mode:
Low Output	>93dB	>93dB
Low-Mid Output		>94dB
Mid Output	>95dB	
High-Mid Output		>94dB
High Output	>90dB	>88dB
Dynamic Range	>106dB, unweighted	
THD & Noise	Limiter Off	Limiter On

New Splitter/Mixer

SM-828
Splitter/Mixer

AUDIO INPUTS	Connectors	XLR and 1/4" TRS
	Type	RF filtered, servo-balanced input
	Impedance	50 kOhms balanced, 25 kOhms unbalanced
	Nominal operating level	-10 dBV to +4 dBu
	Max. input level	+21 dBu balanced and unbalanced
	CMRR	Typ. 40 dB, > 55 dB @ 1 kHz
AUDIO OUTPUTS	Connectors	XLR and 1/4" TRS
	Type	Electronically servo-balanced output stage
	Impedance	60 Ohms balanced, 30 Ohms unbalanced
	Max. output level	+22 dBu balanced and unbalanced
SYSTEM SPECIFICATIONS	Frequency response	5 Hz to 200 kHz, +/- 3 dBu
	S/N ratio	>95 dBu, unweighted, 22 Hz to 22 kHz
	THD	≦0.002 % typ. @ +4 dBu, 1kHz, gain 1
FUNCTION CONTROLS	Main input level	variable
	Main output level	variable
	Level	variable for each channel
	Balance/pan	placing in the stereo field
FUNCTION SWITCHES	Main Link	links the main input signal to the main output
	Split/mix	changeover from split to mix mode for each channel
INDICATORS	Input level (main)	6-digit LED display: -18/-12/-6/0/+12/Clip
	Output level (main)	6-digit LED display: -18/-12/-6/0/+12/Clip
	Input/output level	6-digit LED display: -18/-12/-6/0/+12/Clip
POWER SUPPLY	Mains Voltages	USA/Canada 120V ~, 60 Hz
		U.K./Australia 240V ~, 50 Hz
		Europe 230V ~, 50 Hz
	Power Consumption	max. 15 Watts
	Fuse	100 - 120 V ~: T 500 mA H
		220 - 240 V ~: T 315 mA H
	Mains Connection	Standard IEC receptacle
PHYSICAL	Dimensions (H*W*D)	483(W)x195(D)x44(H)mm (19"x7.54"x1.7")
	Net Weight	2.6 kg(5.73lb)
	Shipping Weight	3.5 kg

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

New LFX Series Channels Mixing Console

LFX12
12 Channel Mixing Console

LFX16
16 Channel Mixing Console

LFX20
20 Channel Mixing Console

Specifications

MODEL	**LFX12/LFX16/LFX20**		
Mono channels			
Microphone input	XLR with balanced		
Frequency response	22Hz to 22KHz,+/-2dB		
Distortion(THD+N)	<0.03% at +0dB ,22Hz~22KHz A-weighted		
Gain range	0dB to 50dB		
Max Input	+20 dB		
LOW CUT	120Hz @18dB OCT		
SNR	<-100dBr A-weighted		
Phantom power	+48V with switch control		
Line input	1/4” TRS with balanced		
Frequency response	22Hz to 22KHz,+/-2dB		
Distortion(THD+N)	<0.03% at +0dB ,22Hz~22KHz A-weighted		
Sensitivity range	+20dB~ -30dB		
COMPRESSOR	GAIN:0~9dB		
	THRESHOLD:20dB--->5dB		
Stereo input channels			
Mic input	XLR with balanced		
Line input	1/4' TRS with balanced		
Frequency response	22Hz to 22KHz,+/-2dB		
Distortion(THD+N)	<0.03% at +0dB ,22Hz~22KHz A-weighted		
Sensitivity range	+20dBu~ -30dBu		
SNR	<-100dBr A-weighted		
Channels EQ			
	Mono Channel	Stereo Channel	
High	+/-15dB @12KHz	+/-15dB @12KHz	
Mid	+/-12dB @100Hz -8KHz	+/-15dB @2.5KHz	
Low	+/-15dB @80Hz	+/-15dB @80Hz	
Impedances			
Microphone input	1.8KΩ		
All other input	10KΩ or greater		
All other output	120Ω		
Power supply			
	LFX12	LFX16	LFX20
Main voltage	100-240V~50/60Hz	100-240V~50/60Hz	100-240V~50/60Hz
Fuse	T1.25A AC250V	T1.25A AC250V	T1.25A AC250V
Rated power consumption	40W	40W	40W

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

DLA Line Array & DLA High Power Subwoofers

Specifications	DLA-212	DLA-218
Configuration	Passive	Passive
Rated Power	1200W (RMS)	2400W (RMS)
Construction	18mm multilayered Plywood	18 mm multilayered plywood
LF Driver	2 × 12”, 3”VC, Ferrite Magnet	2 × 18”, 4”VC , Ferrite Magnet
HF Driver	2 × 1.4” exit, 1.75”VC, Ferrite Magnet	–
Crossover	Bi-amped switchable to 1.8kHz passive	–
Frequency Response (+/-3dB)	50Hz - 18kHz	25Hz - 300 Hz
Max SPL	136 dB peak	138 dB
Rated Impedance	8Ω	4Ω
Dispersion (H × V)	120° × 15°	Omni
Connectors	2 × NL4R Speakon	–
Packaging Dimensions (L×B×H)	80 × 73 × 86 cms (2 pcs)	–
Net Weight	43 kgs	–
Gross Weight	140 kgs (2 pcs)	–

High Performance Full Range Passive Systems

Specifications	DVX-225	DVX-125	DEL-115	DEL-112
Rated Power	1200W (RMS)	600W (RMS)	400W (RMS)	350W (RMS)
Construction	18mm multilayered Plywood		15mm Multilayered Plywood	
LF Driver	2 × 15”, 4”VC	1 × 15”, 4”VC	1×15”, 3”VC	1×12”, 2.5”VC
HF Driver	1 × 1.4” exit, 3”VC		1×1.4” exit, 1.75”VC	
Crossover	1.6 kHz	1.8 kHz	2.4 kHz	2.6 kHz
Frequency Response (-3dB)	45Hz - 19 kHz	50 Hz - 20 kHz	60 Hz - 17 kHz	65Hz - 17 kHz
Maximum Peak Output	138 dB	136 dB	134 dB	133 dB
Rated Impedance	4Ω	8Ω	8Ω	8Ω
Dispersion (H × V)	60° × 40°		90° × 50°	
Connector	2 × NL4 Speakon			
Packaging Dimensions (L×B×H)(cms)	59 × 58 × 130	52 × 47 × 85	50 × 46 × 78	42 × 40 × 67
Net Weight	70 kgs	30 kgs	24 kgs	20 kgs
Gross Weight	77 kgs	32 kgs	27 kgs	22 kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

DEL High Power Sub Woofers and DEL Active Speakers / HDA

Specifications	DEL-118	HDA-15	DEL-115A
Rated Power	1000W (RMS)	400W (RMS)	400W (RMS)
Construction	18 mm multilayered plywood	Moulded Polypropylene Enclosure	15mm Multilayered Plywood
LF Driver	1 × 18", 4"VC , Ferrite Magnet	15", 3"VC, Ferrite Magnet	1 X 15", 3" VC, Ferrite Magnet
Frequency Response (-3dB)	30Hz - 300 Hz	50Hz - 18kHz	60Hz - 17kHz
Maximum Peak Output	137 dB	130 dB	134 dB
Rated Impedance	8Ω	8Ω	8Ω
Dispersion (H × V)	Omni	$80^o \times 60^o$	$90^o \times 50^o$
Connector	2 × NL4R Speakon	2 × XLR; 2 × TS mic i/p	2 X XLR; 2 X TS mic i/p
Packaging Dimensions (L×B×H)(cms)	77 × 76 × 64	50 × 52 × 77	50 X 46 X 78
Net Weight	45 kgs	30 kgs	34 kgs
Gross Weight	50 kgs	33.5 kgs	37 kgs

Active Sub Woofers

Specifications	SUB-18D	SUB-15D
Rated Power	800W (RMS)	600W (RMS)
Construction	18mm Multilayered Plywood	18mm Multilayered Plywood
Transducers	1 × 18", 4"VC, Ferrite Magnet	1 × 15", 4"VC, Ferrite Magnet
Frequency Response (-3dB)	35Hz - 300 Hz	40 Hz - 300 Hz
Maximum Peak Output	132 dB	130 dB
Crossover Frequency	80Hz - 200Hz Adjustable	80Hz - 200Hz Adjustable
Connector	2 × XLR; RCA	2 × XLR; RCA
Packaging Dimensions (L×W×H)(cms)	64 × 58 × 76	64 × 49 × 64
Net Weight	56 kgs	49 kgs
Gross Weight	59 kgs	52 kgs

FEATURES

BUILT-IN AMP MODULE

Revolutionary built-in class-AB amplifier technology provides enormous power, and incredible sonic delivery for an extraordinary performance at unmatched value. The HP Series features 2 mic inputs, a line & mix input, and built-in volume controls.

MULTIPLE APPLICATIONS

The Dynatech HP Series can be used in applications including sound reinforcement for Houses of Worship, Events, Indoor Stadiums, Theme Parks, Multi-Functional Auditoriums, Schools and Transit Terminals etc. They are the best choice for live, rental and portable sound reinforcement applications.

PORTABLE & LIGHTWEIGHT

Its super lightweight plastic construction and design with ergonomic, easy to carry handles makes it extremely portable and handy for DJ's or for touring.

AXI™ ASYMMETRIC PLAN

Dynatech HP Series are powered with AXI™ advanced asymmetric plan, high frequency horn design which delivers dispersion such that every listener hears the exact same sound throughout any venue. Using this advanced technology, the HP speakers reproduce music and audio signals as they were originally captured.

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

HP Active Speakers




Available in Black or White

Specifications	HP - 15A+	HP - 12A+	HP-10A+	HP-8A+
Rated Power	400W (RMS)	350W (RMS)	250W (RMS)	150W (RMS)
Construction	Moulded Polypropylene Enclosure			
LF Driver	15”, 3”VC, Ferrite Magnet	12”, 2.5”VC, Ferrite Magnet	10”, 2”VC, Ferrite Magnet	8”, 1.5”VC, Ferrite Magnet
HF Driver	1” Exit, 1.75”VC, Ferrite	1” Exit, 1.75”VC, Ferrite	1” Exit, 1.5”VC, Ferrite	1” Exit, 1”VC, Ferrite
Crossover	1.7 kHz	2.2 kHz	2.8 kHz	3.5 kHz
Frequency Response (-3dB)	50Hz - 18kHz	55Hz - 18kHz	60Hz - 18kHz	65Hz - 18kHz
Maximum Peak Output	130 dB	128 dB	124 dB	120 dB
Dispersion (H × V)	80° × 60°	80° × 60°	80° × 60°	90° × 60°
Connector	2 × XLR; 2 × TS mic i/p	2 × XLR; 2 × TS mic i/p	2 × XLR; 1 × TS mic i/p	2 × XLR; 1 × TS mic i/p
Packaging Dimensions (L×B×H) (cms)	50 × 52 × 77	45 × 47 × 69	40 × 44 × 61	33 × 34 × 50
Net Weight	30 kgs	25 kgs	18 kgs	9.5 kgs
Gross Weight	33.5 kgs	28 kgs	20 kgs	21 kgs (pair)

HP Passive Speakers & Premium Install Speakers


Available in Black or White

Specifications	HP-8 WP	Zeta12T	Zeta15T
Rated Power	200W (RMS)	1000W RMS + 2 x 500W RMS output	800W RMS
Construction	-	-	-
LF Driver	1×8”, 2” VC	1 x 12”, 3” VC	1 x 15”, 4” VC
HF Driver	1" exit, 1.5” VC	-	-
Crossover	-	80 Hz - 200 Hz	50 Hz - 200 Hz Adjustable
Frequency Response (-3dB)	70Hz - 20 kHz	30 Hz - 150 Hz	40 Hz - 300 Hz
Maximum Peak Output	120 dB	125 dB	130 dB
Dispersion (H × V)	90° × 60°	-	-
Connector	2 × XLR; 1 × TS mic i/p	2 x Balanced XLR Inputs, 2 x Speak-on Output for satellite speakers	2 x XLR; RCA
Packaging Dimensions (L×B×H) (cms)	33 × 34 × 50	54 x 54 x 54 cms	64 x 49 x 64 cms
Net Weight	8 kgs	24 kgs	49 kgs
Gross Weight	10 kgs	27 kgs	52 kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

Premium Install Speakers

BK Bracket
Precision, Heavy-Duty Pan/Tilt Bracket
for BRT and KS cabinets (sold separately)

Specifications	BRT6	BRT26
Design:	Mid-high cabinet, Reflex tuning	Mid-high cabinet, Reflex tuning
Frequency Response (+/-3 dB):	87 Hz - 24 kHz	90 Hz - 24 kHz
Dispersion:	120° x 60°	120° x 40°
Max SPL:	111 dB cont / 117 dB peak	114 dB cont / 120 dB peak
System Sensitivity 2.83V / 1m:	90 dB	93 dB
Impedance:	16 Ohm	8 Ohm, minimum 6.7 @ 286 Hz
Max. Power Handling (AES):	300 Watts (program) / 600 Watts (peak 10 ms)	500 Watts (program) / 1000 Watts (peak 10 ms)
Power Handling (AES):	150 Watts (continuous)	250 Watts (continuous)
Connector:	2 x 4 pole speakON® Connectors, 2 x Binding Post Connectors	2 x 4 pole speakON® Connectors, 2 x Binding Post Connectors
Components:	1 x 6” Low Frequency Driver, 1 x Horn loaded Tweeter	2 x 6” Low Frequency Driver, 1 x Horn loaded Tweeter
Crossover:	Passive - 3.5 kHz, Active - * LPF - / HPF - 110 Hz	Passive - 3.5 kHz, Active - * LPF - / HPF - 110 Hz
Construction:	Birch Plywood Enclosure	Birch Plywood Enclosure
Dimensions (H x W x D):	300 x 190 x 188 mm	460 x 190 x 188 mm
Weight:	4.4 kg	6.6 kg
Rigging:	6 x M8 mounting points for installation brackets / cradle or truss adaptor	6 x M8 mounting points for installation brackets / cradle or truss adaptor

Specifications	KS1	KS3
Design:	Mid-high cabinet, Reflex tuning	Mid-high cabinet, Reflex tuning
Frequency Response (+/-3 dB):	90 Hz - 20 kHz	75 Hz - 20 kHz
Dispersion:	100° x 100°	100° x 100°
Max SPL:	102 dB cont / 108 dB peak	109 dB cont / 115 dB peak
System Sensitivity 2.83V / 1m:	85 dB	88.5 dB
Impedance:	8 Ohm	8 Ohm
Max. Power Handling (AES):	120 Watts (program) / 240 Watts (peak 10 ms)	250 Watts (program) / 500 Watts (peak 10 ms)
Power Handling (AES):	60 Watts (continuous)	125 Watts (continuous)
Connector:	2 x Binding Post Connectors	2 x Binding Post Connectors
Components:	1 x 5.75” coaxial mid-high driver + dome tweeter	1 x 8” coaxial mid-high driver + dome tweeter
Crossover:	Passive - 3.5 kHz, Active - * LPF - / HPF - 110 Hz	Passive - 3.6 kHz, Active - * LPF - / HPF - 100 Hz
Dimensions (H x W x D):	190 x 260 x 200 mm	250 x 350 x 250 mm
Weight:	4.1 kg	6.6 kg
Rigging:	8 x mounting points for installation brackets / cradle	6 x M8 mounting points for installation brackets, cradle and stand mounting

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

Signal Processing Equipment

Model	PSC-224	PSC-24
Modes	3-Way stereo + subwoofer crossover	2- way Sub + Mid-Hi Crossover
Input Connectors	XLR	
Type	Electronically servo-balanced, RF filtered	
Impedance	Balanced > 50kW, unbalanced > 25kW	Balanced > 20kW, unbalanced > 10kW
Max. Input level	+22 dBu	+27 dB
Common Mode Rejection Ratio	>40 dB, typically >55 dB at 1kHz	
Output Connectors	XLR	
Type	Electronically servo-balanced, RF filtered	
Impedance	Balanced 60W, Unbalanced 30W	Balanced 1W, Unbalanced 600W
Max. Output level	+20 dBm	+27 dBm
Dynamic Range	>160 dB, unweighted	
Frequency Response	20 Hz to 20 kHz, ±1 dB	25 Hz to 20 kHz, ±1 dB
Low/Mid Crossover	120 Hz	120 Hz
Mid/High Crossover	2.5 kHz	
Subwoofer frequency range	20 Hz to 200 Hz	20 Hz to 200 Hz
Dimensions (L×D×H)(mm)	483 × 200 × 45	483 × 214 × 44
Net Weight	2.5 Kgs	2 Kgs
Gross Weight	3 Kgs	3 Kgs

Graphic Equaliser
EQ-215
2 x 15 band

Specifications :

* Dual 15 band, 2/3 Octave from 31.5 hz ~ 16 khz
* +12/-12 db boost/cut range on
* 20 mm slide controls 20 hz ~ 20 khz frequency response, +/-0.5 db
* Low cut filter 60 hz -3db
* XLR, TRS balance & RCA jack unbalance input
* XLR, TRS balance & RCA jack unbalance output
* RCA jack unbalance output for recording (output level -6db)
* Signal level at -10db, 0db, + 17db LEDs indicators
* Low cut & bypass function W/LEDs indicators
* AC 120V/240V switchable
* 1 U rack space

OSA-002
Power Conditioner

Specifications :

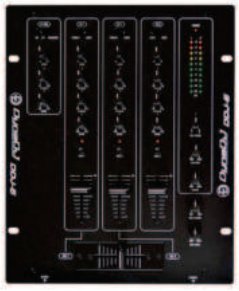
- 2 Front Pull Out LED Light Pipes, Separate On/Off RACK LIGHTS switch for pull-out light pipes.
- Total Power Capacity of 1800 Watts. Front-Mounted Circuit Breaker Reset Switch LED digital readout to monitor Input Voltage & Load Current.
- Rear mounted portable gooseneck 12V lamp-detachable (Included with unit). Aluminum front panel with durable steel chassis occuples 1U rack space.
- Variable Dimmer, Surge & Spike Protection, 2 USB chargers, EMI and RFI filtering.
- Total 9 universal receptacles, including 8 rear panel outlets and 1 unswitched front panel convenience outlet

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

DDJ DJ Mixers

2 Phono, 3 Line

2 Mic



DDJ-6
3 Channel DJ mixer

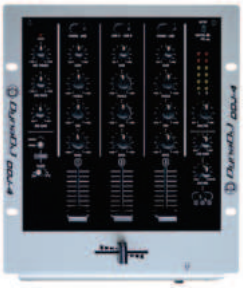
eala BASS

DDJ-6EB
3 Channel DJ mixer
Bass Eala Boost

DDJ-3 and DDJ-3USB
3 Channel DJ mixer
with dual USB pen Drive input

Bluetooth

DDJ-3BT
3 Channel DJ mixer
with Bluetooth



DDJ-4
3 Channel DJ mixer

2 Phono, 4 Line, 1 mic

2 Phono, 4 Line, 2 mic, 1 USB

DDJ-8USB
4 Channel DJ mixer

eala BASS

DDJ-8USB EB
4 Channel DJ mixer with
USB and Bass Eala Boost

Specifications

Model	DDJ-6 / DDJ-6EB	DDJ-3 /DDJ-3USB / DDJ-3BT / DDJ-4	DDJ-8USB / DDJ-8USB EB
Input	2 Phono, 3 Line, 2 mic Eala Bass (DDJ-6EB)	2 Phono, 3 Line, 1 mic	2 Phono, 4 Line, 2 mic, 1 USB Eala Bass (DDJ-8USB EB)
Output	2 master via XLR, 1 booth via RCA	2 master via XLR, 1 booth via RCA	2 master via XLR, 1 booth via RCA
Minimum Input Voltage	0dbV	Output = 1Vrms	0dbV
Phono	1.2 mV	0.85mV	1.2 mV
Line	90 mV	50mV	90 mV
Microphone	1.9 mV	0.4mV	1.9 mV
Line	6.8 Vrms	6.8Vrms	6.8 Vrms
Headphone	0.3W	0.3W	0.3W
Frequency Range	RIAA Standard +/-3dB	RIAA Standard +/-3dB	RIAA Standard +/-3dB
Phono	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz
Line	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz
Microphone	20Hz-18kHz	20Hz-18kHz	20Hz-18kHz
Distortion	0.01%	0.01%	0.01%
S/N Ratio	With JIS Weight	with JIS-A Weight	With JIS Weight
Phono	82dB	82dB	82dB
Line	96dB	97dB	96dB
Microphone	91dB	89dB	91dB
Talkover Attenuation	-14dB	-16dB	-14dB
Headphones Impedance	33 Ohm	33 Ohm	33 Ohm
Tone Control			
Treble (dB)	+10/-30	+10/-30	+10/-30
Middle (dB)	+10/-30	+10/-30	+10/-30
Bass (dB)	+10/-30	+10/-30	+10/-30
eala (3D Surround)	+10dB at 80Hz (Single L or R input)	_	+10dB at 80Hz (Single L or R input)
	+6dB at 1.5kHz (Single L or R input)	_	+6dB at 1.5kHz (Single L or R input)
Bass Effect	+18dB at 40Hz	_	+18dB at 40Hz
Dimension (W × D × H)	254 × 308 × 99(mm)	254 × 355 × 99(mm)	322 × 360 × 99 (mm)
Weight	4 Kgs	3.5 Kgs	4.5 Kgs
Gross Weight	5 Kgs	4.5 Kgs	5.5 Kgs

DynaTech SUPERIOR SOUND
Audio Electronics and Systems

DIGI24.8 - Digital Mixer

- 24 Mics/Line Inputs
- 8 Aux Sends
- 2 Internal FX
- 13 x 100mm Motorized Faders
- 7" Color LCD Touch Screen
- Ethernet/USB Remote Control
- 12 Smart DCAs
- Multi-track USB Recording/Dante Module
- Digital Inserts for External Plug-ins
- App for Wireless Control

FEATURES

MORE FEATURES, MORE CONTROL

The DIGI24 digital mixer offers a myriad of features including 24 Mic/Line Inputs, 8 Aux bus, 2 Internal FX buses, and 12 DCA's. Featuring a powerful DSP, it offers functions like Noise/Gate, Compressor/Limiter, Parametric/Graphic EQ, PAN, Phase Reverse, Time Delay, plus a large choice of high quality digital effects.

EASY ACCESS TO EVERYTHING YOU NEED

The DIGI24 is extremely user-friendly with a 7 inch touchscreen to visualize & edit parameters quickly, 12+1 motorized faders, and a OLED strip. It provides easy access to everything yo need, simply go ahead and mix!

DANTE COMPATIBLE

The mixer features extended possibilities to communicate with external equipment like an optional Dante card for audio transport or a 32 track USB interface for recording. Being Dante compatible opens up a lot of options for recording and playback, which can also be used for virtual sound checks.

CONTROL REMOTELY

The DIGI24 can be controlled wirelessly via an app from an iPad/PC; it even features Ethernet, and USB connectivity, and is perfect for live applications and fixed installations.

New PLL Stereo In Ear Monitoring System

SIEM-121T / SIEM-121R

Professional Microphones

SIEM-121T

UHF PLL Single Channel Transmitter

SPECIFICATIONS	
Carrier Frequency Range	470~960 MHz
RF Output Power	10 mW
Nominal Frequency Deviation	±40KHz (MAX)
Audio Input Impedance	20kΩ
Nominal Input Level	-12 dBu
Maximal Input Level	AUX:12dBu, LINE:22dBu
LCD Display	Key lock, Stereo/Mono, RF power, User Name, Input Selection, Remoset Id, Group, Channel, Frequency
Audio Input Connector	2 x Balanced XLR /Ø6.3mm phone Combo Socket
Audio Output Connector	1 x 6.3mm Stereo Phone Jack
Loop Out Connector	2 x 6.3mm Balanced Loop Out Socket
Switching Power Supply	100-240V
Dimensions	210mm(W)*210mm(H)*42mm(D)
Weight	1140g

SIEM-121R

UHF PLL Body-Pack Receiver

SPECIFICATIONS	
Carrier Frequency Range	470~960 MHz
Earphone Output	60 mW
Minimum Load Impedance	16Ω
LCD Display	RF/AF Level, Key lock, Battery Fuel Gauge, Stereo/Mono, HF booster, Limiter, Group, Channel, Mute, FrequencyRemoset ID, User Name
Output Connector	3.5mm Stereo Phone Jack
Battery	2*AA batteries or 2*MiNH rechargeable battery
Operation Hour.	Over 8 hours
Dimensions	95mm(H)*42mm(W)*20mm(D)
Weight	130g (without batteries)

New E-7Du / E-7th

Wireless Microphone System

- Dual channel receiver
- UHF band
- Diversity Reception
- Field tested to avoid drop outs
- Proprietory Algorithim to maximise working distance

Wireless Microphone System

Professional Microphones

- R4 / R4THA (4 x Handheld)
- R4 / R4 THA / R4TBM or R4TB (2 x Handheld / 2 x Metal or Plastic Bodypack)
- R4 / R4TBM or R4TB (4 x Metal or Plastic Bodypack)

4 microphones

Far receiving distance

R-4

UHF 4 Channel Diversity System

SPECIFICATIONS	
Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	UHF 470~960 MHz
S / N Ratio	> 105dB
T.H.D	<0.6% @ 1KHz
Display Contents	Group, Channel, Frequency, Antenna A / B, Mute Display, AF Meter (LED BAR), RF Meter (LED BAR), Battery Status
Controls	Power On/Off, Group, Channel, Frequency Up/Down, Frequency Scan, Audio Level, Lock-on, Output Pad
Audio Output Level	-12dB
AF Output Impedance	600Ω
Squelch	Pilot Tone & Noise Mute
Operation Voltage	100 ~ 240V
Output Connector	4 independent XLR outputs, and 1 Ø6.3mm and 1 XLR for mixed output
Dimension (m / m)	212.3mm(W)*38.3mm(H)* 144mm(D)

R-4THA

Professional Wideband Handheld Transmitter

SPECIFICATIONS	
Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	UHF 470~960 MHz
Bandwidth	108MHz Wideband
RF Outputs	Low / High
Stability	< ±10KHz
Frequency Deviation	±48KHz (Peak)
LCD Display	Group, Channel, Frequency, Battery Status, User Name, GAIN Adjust
Controls	Power ON/OFF, AF Level, Frequency (Up/Down), Lock-on Mode, REMOSET ID Pairing, RF Output Adjust
Spurious Emissions	<-50 dBC
Audio Frequency Response	50Hz ~ 18k Hz
Capsules Module	Interchangeable
Battery	UM3, AA x2
Output Connector	4P Mini XLR

R-4TB/R-4TBM

Professional Wideband Body-Pack Transmitter

SPECIFICATIONS	
Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	UHF 470~960 MHz
Bandwidth	108MHz Wideband
RF Outputs	Low / High
Stability	< ±10KHz
Frequency Deviation	±48KHz (Peak)
LCD Display	Group, Channel, Frequency, Battery Status, User Name, GAIN Adjust
Controls	Power ON/OFF, AF Level, Frequency (Up/Down), Lock-on Mode, REMOSET ID Pairing, RF Output Adjust
Chassis	R-4TB: Plastic/R-4TBM: Aluminium alloy
Output Connector	4P Mini XLR
Spurious Emissions	<-50 DBC
Audio Frequency Response	50Hz ~ 18k Hz
Battery	UM3, AA x2

JSS-4A/JSS-4B

Professional Wideband Handheld Transmitter

SPECIFICATIONS	
Frequency Preparation	PLL Synthesized Control
Carrier Frequency Range	UHF 470~960 MHz
Bandwidth	108MHz Wideband
RF Outputs	Low / High
Stability	< ±10KHz
Frequency Deviation	±48KHz (Peak)
LCD Display	Group, Channel, Frequency, Battery Status, User Name, GAIN Adjust
Controls	Power ON/OFF, AF Level, Frequency (Up/Down), Lock-on Mode, REMOSET ID Pairing, RF Output Adjust
Spurious Emissions	<-50 dBC
Audio Frequency Response	50Hz ~ 18k Hz
Chassis	Aluminium Alloy
Battery	UM3, AA x2
Output Connector	4P Mini XLR

Professional Microphones

UC-900

Antenna Combiner

SPECIFICATIONS	
Frequency Response	470~970 Mhz
Full System Gain	0dB(±2dB)
VSWR Input / Output	1.5:1
RF Input Power	+20dBm (100mW)
Input Signal Indicator Threshold	+5dBm
Power Consumption	60W
Input/Output Connectors	BNC female (4 input at back,1 output at front) DC female
Input Voltage	100~240VAC MAX2A 50/60Hz
Dimensions	480 (W) * 45 (H) * 260 (D)
Weight	2.3kg

UA-960

Antenna Distributor

SPECIFICATIONS	
Frequency Response	470~952 MHz
RF Output Level(Gain)	3 dB ± 2
Cascade output level	0dB ~ +2dB
Output Connection Isolation	≥ 25 dB
Third Order Intercept Point	24 dBm
Impedance	50 Ohm
Power Consumption	60W
Input AC Voltage	100 ~ 240 V switching power
Output DC Voltage	+12V ---1A x 4
Antenna Booster DC Voltage	12V
Dimension	480(W)*45(H)*250(D) mm
Net Weight	2.15 Kgs

UDA-49A

Active UHF Directional Antenna

SPECIFICATIONS	
Frequency Band	470~870 MHz
Effective Working Angle	100 degree
Antenna Gain	10dB
Net Weight	400g
Power Supply	12V, 50mA
Booster Gain	3dB/10dB Selectable

UDA-49P

Passive UHF Directional Antenna

SPECIFICATIONS	
Frequency Band	470~870 MHz
Effective Working Angle	100 degree
Antenna Gain	10dB
Net Weight	400g
Power Supply	12V, 50mA
Booster Gain	3dB/10dB Selectable

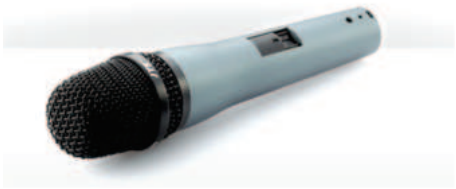
JTS®
Professional Microphones

TK-600
Performance Microphone

SPECIFICATIONS	
Type	Moving Coil Dynamic
Frequency Response	50~15,000 Hz
Polar Pattern	Cardioid,rotationally symmetrical about microphone axis, uniform with frequency
Sensitivity (at 1,000Hz)	-75dB*(0.18mV)*0dB=1V/μbar
Impedance	600Ω

TK-350
Performance Microphone

SPECIFICATIONS	
Type	Moving Coil Dynamic
Frequency Response	80~12,000 Hz
Polar Pattern	Cardioid,rotationally symmetrical about microphone axis, uniform with frequency
Sensitivity (at 1,000Hz)	-75dB*(0.18mV)*0dB=1V/μbar
Impedance	600Ω



TK-280
Performance Microphone

SPECIFICATIONS	
Type	Moving Coil Dynamic
Frequency Response	80~12,000 Hz
Polar Pattern	Cardioid,rotationally symmetrical about microphone axis, uniform with frequency
Sensitivity (at 1,000Hz)	-75dB*(0.18mV)*0dB=1V/μbar
Impedance	600Ω

CX-508 / CX-508W
Condenser Winds Microphone / Wireless

SPECIFICATIONS	
Type	Electret Condenser
Frequency Response	50~18,000 Hz
Polar Pattern	Cardioid
Sensitivity (at 1,000Hz)	-64dB*(0.63mV)* 0dB=1V/μbar
Impedance	220Ω

CX-500
Subminiature Condenser Instrument Microphone

SPECIFICATIONS	
Type	Omni-directional Condenser
Frequency Response	20~20,000 Hz
Sensitivity (at 1,000Hz)	-58±3dB*(1.25mV)*0dB=1V/μbar
Impedance	1.5kΩ
Max.SPL for 1% T.H.D.	130 dB
Signal-To-Noise Ratio	68 dB
Output Connector	4P Mini XLR
Power Supply	1-5 VDC
Current Consumption	≤0.05mA

CX-520D
Harmonica Microphone

SPECIFICATIONS	
Type	Moving Coil Dynamic
Frequency Response	50~16,500 Hz
Polar Pattern	Supercardioid, rotationally Symmetrical about microphone axis, uniform with frequency
Sensitivity (at 1,000Hz)	-78±3dB*(0.125mV)*0dB=1V /μbar
Impedance	600Ω
Cable Length	6m
Connector	Ø6.3 plug
Standard Accessory	MA-500

Professional Microphones

TXB-7M

7 x Drum Microphone Kit

SPECIFICATIONS
Hard-shell carry case against microphone damage. Convenient and tender design. Space available for : TXB-7M : 1 TX-2 and 4 TX-6, 2 TX-9

CM-214iF

Lightweight Headset Microphone

SPECIFICATIONS	
Connector	801C4 (4 pin mini XLR) 801C3 (3 pin mini XLR) 801CS (3.5 stereo plug) 801CR
Frequency Response	60~15,000 Hz
Polar Pattern	Omni-directional
Sensitivity (at 1,000Hz)	-60±3 dB* (1mV)*0dB=1V/µbar
Impedance	1.8kΩ
Max. SPL for 1% THD	130dB

SGM-14

14” Shotgun Microphone

SPECIFICATIONS	
Type	Electret Condenser
Frequency Response	20~20,000 Hz
Sensitivity	-52±3dB*(2.5mV)*0dB=1V/µbar
Polar Pattern	Hypercardioid
Attenuation Switch	-10 dB
Low Frequency Roll-off	80 Hz
Impedance	Rated impedance is 200Ω
Max. SPL for 1% THD	125dB (135dB with -10 dB Attenuation)
Signal To Noise Ratio	78dB
Power Supply	9~48VDC phantom power
Output Connector	3P XLR (M)
Length	355.7mm

CM-201

Dynamic Microphone Capsule

SPECIFICATIONS	
Connector	4P Mini XLR
Frequency Response	60~15,000 Hz
Polar Pattern	Omni-directional
Sensitivity (at 1,000Hz)	-60±3 dB* (1mV)*0dB=1V/µbar
Impedance	2.2kΩ
Max. SPL for 1% THD	130dB
Dimension(mm)	Ø5mm(W)* 9mm(H)
Net Weight	20.7g

MA-XU

Microphone USB Adaptor

SPECIFICATIONS	
Input	XLR
Input Impedance	10KΩ
Input Gain Range	35dB
USB connector	Digital audio interface
Headphone Jack	3.5mm Output:50mW (16Ω)
Indicator	USB Blue, Phantom RED, Peak Level Green: Signal, Red, Peak
Phantom Power	48V±2V,15mA
Frequency Response	25~20000Hz
Power consumption	2.2W
Dimension (mm)	117*31*28mm
Weight	95g

Professional Microphones

JS-1Tube

Large Diaphragm Studio Mic

SPECIFICATIONS	
Type	Large Diaphragm Condenser Microphone
Frequency Response	20~20,000 Hz
Sensitivity (at 1,000Hz)	-38 dB* (12.6mV) 0dB=1V /Pa
Directional Pattern	Cardioid,Omnidirectional,figure-8
Low Frequency Roll-off	80 Hz
Impedance	200Ω
Max. SPL for 1% THD	132 dB
Signal To Noise Ratio	78dB
Power Supply	36-52 VDC phantom power required
Output	3 Pin XLR(M) (power module)
Current Consumption	1mA

JS-1E

Budget Large Diaphragm Studio Mic

SPECIFICATIONS	
Type	Large Diaphragm Condenser Mic
Frequency Response	20~20,000 Hz
Sensitivity (at 1,000Hz)	-38 dB* (12.6mV) 0dB=1V /Pa
Directional Pattern	Cardioid
Impedance	200Ω
Max. SPL for 1% THD	132 dB
Signal To Noise Ratio	78dB
Power Supply	36-52 VDC phantom power
Output	3 Pin XLR(M) (power module)
Current Consumption	≤1mA

JS-1USB

Large Diaphragm Studio Mic

SPECIFICATIONS	
Type	Large Diaphragm Condenser Mic
Frequency Response	20~20,000 Hz
Sensitivity (at 1,000Hz)	-38 dB* (12.6mV) 0dB=1V /Pa
Directional Pattern	Cardioid
USB Connector	B type, Digital audio interface
Impedance	200Ω
Max. SPL for 1% THD	132 dB
Signal To Noise Ratio	78dB
Power Consumption	0.5W
Indicator	USB ..... Green

JTS®
Professional Microphones

GM-5225 / GM-5218 / GM-5212

24''/18''/12'' Gooseneck Microphone

SPECIFICATIONS	
Type	Back Electret Condenser
Frequency Response	80~18,000 Hz
Polar Pattern	Supercardioid
Output Connector	XLR(M) type (power module) : GM-5206 /GM-5212/GM-5218/GM-5212L/GM-5218L /GM-5225/GM5225L Screw 5/8" *27 : GM-5212C
Sensitivity (at 1,000Hz)	-60dB(1mV)
Impedance	220Ω
Max. SPL for 1% T.H.D.	125 dB
Length	GM-5212 : 12" (305mm) GM-5218 : 18" (457mm) GM-5225 : 25" (585mm)

GM-5225L / GM-5218L / GM-5212L

24''/18''/12'' Gooseneck Microphone With LED

SPECIFICATIONS	
Type	Back Electret Condenser
Frequency Response	80~18,000 Hz
Polar Pattern	Supercardioid
Output Connector	XLR(M) type (power module) : GM-5206/ GM-5212/GM-5218/GM-5212L/GM-5218L /GM-5225/GM5225L Screw 5/8" *27 : GM-5212C
Sensitivity (at 1,000Hz)	-60dB(1mV)
Impedance	220Ω
Max. SPL for 1% T.H.D.	125 dB
Length	GM-5212L : 12" (305mm) GM-5218L : 18" (457mm) GM-5225L : 25" (585mm)

FGM-170

Floor Stand Mic with Carbon Boom

SPECIFICATIONS	
Type	Back Electret Condenser
Frequency Response	50~18,000 Hz
Polar Pattern	Cardioid, Supercardioid, Omni-directional
Sensitivity (at 1,000Hz)	-56±3dB(1.58mV) 0dB=1V/μbar
Impedance	220Ω
Max. SPL for 1% T.H.D.	125 dB
Connector	3P mini XLR (M)
Cable Connector	Input: 3P mini-XLR (F) Output: 3P XLR (Power Module)
Power Supply	9-52 VDC phantom power (LED standard Operation voltage 48V)

JTS®
Professional Microphones

ST-5030

Universal Gooseneck Microphone Base

SPECIFICATIONS	
Frequency Response	20~20,000 Hz
Power Requirement	Phantom power 48V or battery power 1.5V*2(ST-5030i work with 12~48V Phantom power)
Current Consumption-Stand-by	2.4mA
Current Consumption-Operating	6.6mA
Switches	Microphone selection:ECM MIC unbalanced input, ECM MIC balanced input, Dynamic MIC input Magnetic switch: power on/off
Connector	audio output (XLR 3P Male)
Net Weight	1150 grams

ST-5050i

Universal Gooseneck Microphone Base

SPECIFICATIONS	
Frequency Response	20~20,000 Hz
Power Requirement	Phantom power 48V or battery power 9V
Current Consumption-Stand-by	0.3mA
Current Consumption-Operating	5mA(BAL) , 0.3mA(UNBAL)
Switches	Microphone selection:ECM MIC unbalanced input, ECM MIC balanced input, Dynamic MIC input Push control: on/off, Function selection: push on/off, momentary on/off
Connector	audio input (XLR 3P Female) audio output (XLR 3P Male)
Net Weight	820 grams

CM-502

Choir Microphone

SPECIFICATIONS	
Type	Electret Condenser
Frequency Response	100~18,000 Hz
Polar Pattern	Supercardioid
Sensitivity (at 1,000Hz)	-48dB*(4mV)*0dB=1V/μbar
Impedance	220Ω
Max. SPL for 1% THD	125dB
Connector	male XLR type
Standard Accessories	Windscreen / Flexible hanger / Mounting plate

CM-601

Boundary Mic with low cut, gain switch

Type	Electret Condenser
Frequency Response	30 to 12,000 Hz
Sensitivity	-53 ± 3dB* (2.23mV) 0dB=1V/μbar
Directional Pattern	Half-Cardioid
Impedance	100Ω
Max. SPL For 1% THD	125 dB
Signal to Noise Ratio	67 dB
Power Supply	12~52V DC phantom power
Current Consumption	≤6 mA
Output Connector	3P Mini XLR-M type(power module)
Net Weight	88 grams

Stage Vocal Microphone

New SX-8i

Stage Vocal Microphone

SPECIFICATIONS	
Type	Moving Coil Dynamic
Polar Pattern	Cardioid, rotationally symmetrical about microphone axis, uniform with frequency
Frequency Response	50 ~ 16,500 Hz
Level (at 1,000 Hz)	Open circuit voltage: -77*(0.14mV)*0dB=1V/μbar
Impedance	rated impedance is 250Ω for connection to microphone inputs rated low Z
Phasing	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3
Connector	Three-pin professional audio connector (male XLR type)

JTS®
Professional Microphones

CS-W4

Wireless
Conference
System

CS-W4 /CS-W4T

Wireless Conference System Receiver / Transmitter

CS-W4 is designed with JTS newest wireless and conferencing technology. It provides maximized compatible channels with a given bandwidth. Built in logic circuit provides conferencing feature. A microphone assigned with priority will work as a chairman unit. It overrides other microphones. Logic setting of one CS-W4R receivers can be cascaded. A microphone with priority in one receiver will also have priority in a cascaded system. JTS patented REMOSET synchronizes all four microphones simultaneously by push one button.

The microphone is of 108 MHz bandwidth. This feature allows more attendants to join the conference.

Model: CS-W4
Frequency Preparation:
PLL Synthesized Control
Carrier Frequency Range: 470~960 MHz
Frequency Setting:
2.4G RF REMOSET
Channel: 4
Bandwidth: 36MHz
S/N Ratio: >105dB(A)
T.H.D: <0.6%@1KHz
Sensitivity: -95dBm, S/N>80dB
CMRR: >80 dB
Audio Frequency Response:80Hz~16KHz±2dB
Antenna Connector: BNC (Female)
Antenna Booster Power: DC12V/100mA
Display: LCD+LED
Controls: Power ON/OFF, Group, Channel, Frequency, Sensitivity, Key Lock, Volume, Output Attenuation(XLR), Frequency Scan(ON/OFF), Antenna Power, Display Setting, Language, Remoset ID Number, Reoset Setting, Priority Setting

Model: CS-W4T
Frequency Preparation:
PLL Synthesized Control
Carrier Frequency Range: 470~960 MHz
Frequency Setting:
2.4G RF REMOSET
RF Outputs: Low / High
Stability: <±10KHz@Fc
Frequency Deviation: ±48KHz
Spurious Emissions: <-50dBc
Display: LCD
Controls: Power ON/OFF, Talk, Group, Channel, Fuequency, Sensitibity, RF Output, Key Lock REMOSET ID Pairing, REMOSET Setting
Battery: UM3, AA x2
Rchargeable: YES
Base Dimension:
116mm (W)*29 mm(H)*138mm (D)
Note: Actual Product specifications may vary depending on model and region

Audio Output Level:
Ref: ±22.5KHz Dev@1KHz Tone
ψ6.3 Phone Jack: -10dBV
XLR Jack: -4dBV(Line), -24dBV(MIC)
Audio Output Level: 600Ω
Squelch: Pilot Tone & Noise Mute
Output Socket:
XLR Balanced Socket x5, φ6.3mm Unbalanced x1
Automixer Control:
8PIN MINI DIN Input, 8 PIN MINI DIN Output
Power Supply: DC12~15V/1A
Dimension(mm): 485(W) x 45(H) x 260(D)
Note: Actual Product specifications may vary depending on model and region

W4-CH1 / W4-CH12 (Cover)
1/12-Slot Charger for CS-W4T

SPECIFICATIONS	
Input	AC 100~240, 0.4A max AC 100~240V, 1.2A max
Output	DC 12V, 1A / DC 15V, 3.3A
LED Indicator	
Full Charged / Standby	Green
Charging	Flash Green
Fault	Flash Red
Charging Time	3 hours

Charger Slot


W4-CH1


W4-CH12 (Cover)

Professional Microphones

CS-120CU
Control Unit

CS-120CH
The Chairman Unit

CS-120DU
The Delegate Unit

CS-120EXU
Power Supply Unit

CS-120 System

CS-120CU/CS-120CH/
CS-120DU/CS-120EXU

After careful research of international conferencing standards and requirement JTS Professional has developed the CS-120. The CS-120 is a digital controlled system designed for large venue. The digital control technology assures stable signal level over large installation. Maximum 256 delegates unit CS-120DU and chairman unit CS-120CH can be daisy chained.

The CS-120 is a stand-alone system. Voting function is provided while computer software is provided to enable video tracking. JTS IT-12 Interpretation System is a perfect supplement to the system. Maximum 12 languages can be handled.
JTS TG- series wireless tour guide system completes multi language distribution.

Reliability is always a concern in installation. Having specialized in audio for more than 30 years and experience in communication and automobile industry, JTS Professional has accumulated rich expertise in manufacturing of reliable and durable products.

CS-120CU works as a main unit of the whole system. It provides all inputs and outputs needed to manage complex audio system. A single CS-120CU can be connected with 90 sets of CS-120CH and CS-120DU. With additional power unit CS-120EMU up to 256 sets can be connected.

The CS-120CH has extra functions besides those CS-120DU has. There is a priority key which can either mute or turn off all delegate units, or cancel all applying. The chairman unit has the right to accept or refuse applying. Voting function can be initiated only the chairman unit. The timing is also controlled by the chairman. Voting result shown on all units will be clear. In one installation only one CS-120CH chairman unit can be connected.

The CS-120DU is the basic delegate unit. Under the control of CS-120CU there are 4 types of operation mode . 3 key voting function is available. Voting result can be read on the LCD screen. There are two lengths of detachable gooseneck microphone and three types of capsules for choices to meet various requirements. Ø3.5 mm earphone output and microphone input phone jack are provided.

The CS-120EXU power supply unit is designed for CS-120 conference system. When the number of delegate and chairman unit exceeds 90 CS-120EXU should be used in the installation to provide extra power.

CS-120CU

SPECIFICATIONS	
Microphone capacity	≤256
Voting	Yes
Frequency response	40-16000Hz
SNR	>80 dBA
Dynamic range	>85 dB
Crosstalk	>70 dB
Total harmonic distortion	<0.05%
Mains power supply	110V or 220V AC Original Iuput:ϕ6.4mm balanced: LEVEL:0.775V
Audio input	REC.IN:RCA x1 Original Output:RCA x2 balanced:XLR x 1 BAL.
Audio output	REC. Outpuy:RCA x 1
Output load	>1 kΩ
Control interface	RJ45 Ethemet, connecting to PC
Maximun power consumption	150W
connection	Dedicated cable (7 PIN)
connector	DIN7P with buckle

CS-120CH

SPECIFICATIONS	
Model No	CS-120CH/CS-120DU
Output frequency response	40-16000Hz
Earphone load	>16 Ω
Earphone volume	10 mV
Earphone output	ϕ 3.5mm stereo jack
Max. power consumption	1.65W (with 256 x 64LCD) 1W (without 256 x 64 LCD)
connection	7P-DIN dedicated cable with buckle
Microphone Type	Uni-directional electret condenser microphone
Sensitivity	-46 dBV/Pa
Frequency response	80-18000Hz
Input impedance	2kΩ
Directivity 0°/180°	>20 dB(1kHz)
Equivalent noise	25 dBA (SPL)
Maximum sound pressure level	125 dB (THD<3%)

CS-120DU

SPECIFICATIONS	
Model No	CS-120CH/CS-120DU
Output frequency response	40-16000Hz
Earphone load	>16 Ω
Earphone volume	10 mV
Earphone output	ϕ 3.5mm stereo jack
Max. power consumption	1.65W (with 256 x 64LCD) 1W (without 256 x 64 LCD)
connection	7P-DIN dedicated cable with buckle
Microphone Type	Uni-directional electret condenser microphone
Sensitivity	-46 dBV/Pa
Frequency response	80-18000Hz
Input impedance	2kΩ
Directivity 0°/180°	>20 dB(1kHz)
Equivalent noise	25 dBA (SPL)
Maximum sound pressure level	125 dB (THD<3%)

Professional Microphones

CS-1 System

CS-1CUR / CS-1CH / CS-1DU

CS-1CUR
Control and Power Supply Unit

CS-1CH
Chairman Unit

CS-1DU
Delegate Unit

The innovative CS-1 i-Conference Discussion System is equipped with JTS in-house made ECM capsule, intelligent automatic mixing technology and integrated acoustic and mechanical design, providing Turn-Key solution and delivering consistently natural, feedback-free audio performance with any environment. The i-Conference Discussion System is ideal for discussion and meeting with up-to 150 attendants.

A CS-1 i-Conference Discussion System consists of:

- One Control and power supply unit (CU).
- Maximum 150 delegate or chairman units.
- Peripheral audio and/or telecommunication equipment.

The control unit is the center of the discussion system which controls the microphones of the chairman and delegate units as well as connects to other audio input and output. It also supplies the power for the CU itself, and up to 50 chairman and delegate units.

The delegate unit enables the attendants to participate in a discussion by speaking through a microphone, controlled by a microphone ON/OFF push-button, and listening to discussion by the internal loudspeaker and external headphone.

The chairman unit not only provides the same function as the delegate unit, but also supports the addition of a “Priority button”, that enables the chairman to control the discussion by temporary or permanently overriding and deactivating all active microphones of the delegate units.

CS-1CUR

SPECIFICATIONS	
Input	
Type	XLR
Mic	4.7KΩ
Line	20KΩ
Recording Function	
Interface	USB3.0 32GByte (Backward Compatible)
Format	MP3
MAX. Recording Time	More than 240 hours (With 32GByte USB)
Controls	Recording ON/OFF button / Recording status LED display / Without Playback Funciton
MAX Gain	> 70dB
Frequency Respond	35 ~ 20,000Hz
THD% Input	<0.06%
Signal-to-noise radio	> 70 dB
Input Attenuation	-50dB
Phantom Power	+48V
Mic In Attenuation	-5dB /-10dB
Mic Attenuation	-10dB /-15dB /-20dB
Output Attenuation	-50dB
Voltage Output	+5 VDC ± 0.2V
Power Supply	18VDC, 1A
Power Consumption	18W
Fuse	T1AE 250V (Slow-Blow)
Weight	2.3 kg
Dimension (mm)	420(W) * 44(H) * 198.5(D)

CS-1CH/CS-1DU

SPECIFICATIONS	
Headphone Output	
Output level	-8dBV/+2dBV(nominal/maximum)
Output Impedance	22Ω
Gooseneck Microphone	
Type	Back Electret Condenser
Frequency Response	50 ~ 18,000Hz
Polar Pattern	Cardioid
Max. SPL for 1% THD	125dB
Gooseneck Length	12” (305mm)
Dimensions (HxWxD) without mic	170*115*65 mm
Length of mic	400 mm
Weight	1095 grams

CS-1EXM / CS-1EXS

Expansion Kit

SPECIFICATIONS	
Input	7-pin DIN Connector
Output	7-pin DIN Connector
Dimension(mm)	115mm(W)* 65mm(D)* 38mm(H)

Thrash SERIES

PROFESSIONAL POWERED LOUDSPEAKERS

Thrash212 Thrash215

FEATURES

THE POWER TO PERFORM

With a wall-shaking 1300W of power, flexible inputs, durable and lightweight construction, Thrash has what it takes to keep up with

NO FUSS I/O

Just plug in, crank it, and get playing! Dual XLR/TRS inputs plus a Mix Out are easy and versatile for connecting to your gear. You

TAKE THE HEAT

Easily adapt Thump loudspeakers to your needs with application

THE SOUND OF ROCK

Thrash is voiced to make your voice and instruments cut through in loud basement shows, garage rehearsals, and dusty old

SPECIFICATIONS

Product	Thrash212	Thrash215
Power	1300w	1300w
LF Driver	12"	15"
HF Driver	1"	1"
Frequency Response	52Hz-20khz	38Hz-20khz
Max SPL	125dB	126dB
Input / Output	2 x XLR / TRS Mix Output	2 x XLR / TRS Mix Output

THUMP SERIES

PORTABLE BATTERY-POWERED LOUDSPEAKER

Thump212 Thump215 Thump212XT Thump215XT Thump115S Thump118S

SPECIFICATIONS

Product	Thump212	Thump215	Thump212XT	Thump215XT	Thump115S	Thump118S
Power	1400w	1400w	1400w	1400w	1400w	1400w
LF Driver	12"	15"	12"	15"	15"	18"
HF Driver	1"	1"	1"	1"	-	-
Frequency Response	47Hz-20khz	40Hz-20khz	47Hz-20khz	40Hz-20khz	36Hz-200hz	36Hz-200hz
Max SPL	128dB	129dB	128dB	129dB	131dB	131dB
Wireless Control & Streaming	No	No	Yes	Yes	No	No
Flyable	No	No	Yes	Yes	No	No

THUMP GO

PORTABLE BATTERY-POWERED LOUDSPEAKER

FEATURES

TAKE YOUR STAGE ANYWHERE

Set the stage, wherever you want it to be. Bring professional live sound reinforcement to small

BUILT-IN 2-CHANNEL MIXER

Connect any combination of audio sources, including guitar, microphone, keyboard, or DJ

NO POWER, NO PROBLEM

The removable lithium-ion battery pack is key to Thump GO's ultra-portable design. With a single

WIRELESS STREAMING AND CONTROL

Easily stream music directly to your Thump GO via Bluetooth. Using the Thump Connect 2 app,

SPECIFICATIONS

Product	Thump Go
Power	200w
LF Driver	8"
HF Driver	1"
Frequency Response	50Hz-20khz
Max SPL	125dB
Input	2 x Female XLR & 1/4" Balanced TRS combo jack. 1/8" TRS. Bluetooth

SRM V-CLASS

HIGH-PERFORMANCE POWERED LOUDSPEAKER

SRM212 V-CLASS

SRM215 V-CLASS

SPECIFICATIONS	SRM212 V-Class	SRM215 V-Class
Peak Watts	2000W	
Frequency Response (-10dB)	42Hz-20kHz	40Hz-20kHz
Max SPL (dB)	135dB	136dB
HF Transducer	1.4″ Premium Polymer Compression Driver mounted in proprietary Sym-X horn	
LF Transducer	12″ High-output custom woofer with enhanced cooling	15″ High-output custom woofer with enhanced cooling
Coverage	60°(H) × 40°(V)	
Inputs	Built-in 4-Channel Digital Mixer with dual independent inputs that support mic, line, and instrument signals plus a dedicated 1/8″ stereo aux input	
Wireless Streaming	Stream music via Bluetooth® at up to 100 meters	
Wireless Control	Complete control via SRM Connect on iOS and Android® of up to 2 speakers simultaneously	

SRT SERIES

SRT212 SRT215 SR18S

SPECIFICATIONS	SRT212	SRT215	SR18S
Peak Watts	1600W		
Frequency Response (-10dB)	44Hz-20kHz	42Hz-20kHz	33Hz-200Hz
Max SPL (dB)	132dB	133dB	133dB
HF Transducer	1.4″ Compression Driver mounted in proprietary Sym-X horn		N/A
LF Transducer	12″ High-output custom woofer	15″ High-output custom woofer	18″ High-output custom woofer
Coverage	90°(H) × 60°(V)		N/A
Inputs	Built-in 4-Channel Digital Mixer with dual independent inputs that support mic, line, and instrument signals plus a dedicated 1/8″ stereo aux input		Stereo XLR
Wireless Streaming	Stream music via Bluetooth® at up to 100 meters		N/A
Wireless Control	Complete control via SRT Connect on iOS and Android® of up to 2 speakers simultaneously		N/A

MIX SERIES

COMPACT MIXERS

MIX5
MIX8
MIX12FX

MIX SERIES SPECIFICATIONS

Inputs:
- Mic preamps (1, 2 or 4)
- Stereo line inputs (2, 2 or 4)
- Equalization (+/- 15dB)
  - High shelf, 12kHz
  - Mid peak, 2.5kHz (Mix8/12FX)
  - Low shelf, 80Hz
- 48V Phantom power (Mix8/12FX)
- Stereo RCA “Tape” inputs
- Stereo Aux Return (Mix8)

Outputs:
- Main (stereo, balanced TRS & RCA)
- Stereo 8-segment LED metering
- Headphone (stereo 1/4”)
- Control Room (balanced TRS, Mix8/12FX)
- Aux/FX Send (balanced TRS, Mix8/12FX)

Built-in FX:
- 12 reverb, chorus & delay (Mix12FX)

HM SERIES

HEADPHONE AMPLIFIERS

HM SERIES
EXPAND
YOUR VERSATILITY

COMPARISON CHART

Model	HM-4	HM-400	HM-800
			
FEATURES			
Total Headphone Outputs	4	12	16
Output Connections	4-TRS 1/4″ (Headphone)	12-TRS 1/4″ (Headphone) L/R XLR + TRS balanced	16-TRS 1/4″ (Headphone) 2 × Stereo TRS (pass through)
Input Connector Types	Balanced TRS 1/4″	Left and Right XLR, Balanced TRS 1/4″	2 Pair Balanced TRS 1/4″
Aux Inputs	N/A	Yes, each channel	Yes, each channel
INPUT			
Maximum Input Level	+20 dBu (unbalanced)		
THD+N (@4dBu, 1kHz)	<0.03%	<.01% typical	<.005% typical
Input Impedance	10K Ohms	20k ohm balanced, 10k ohm, unbalanced	40k ohm balanced, 20k ohm, unbalanced
Frequency Response	20Hz20kHz (+/- 1dB)		

DL SERIES

DIGITAL LIVE SOUND MIXERS

The Mackie DL32S and DL16S deliver proven intuitive control and unmatched audio fidelity with Onyx+ mic preamps in all-new Built-Like-A-Tank, stage-friendly designs. Loaded with channel/output DSP plus 4 FX processors, multi-track USB recording, and more, DL32S and DL16S provide the mixing power you need. Get mixing quickly with built-in Wi-Fi and the industry-leading, multi-platform Master Fader app. Mount it in a rack, set it on a desk, or put it right on the stage. Mix your way.

DL16S

DL32S

FEATURES

STAGEBOX DESIGN

DL32S and DL16S can be placed anywhere you need them. Steel construction, big rubber corners, and a handle that wasn't an afterthought means that you can count on it to deal with the not-so-delicate load in at gigs every night.

BUILT-IN WI-FI

When every second counts in your setup time, the last thing you want to worry about is networking issues. DL32S and DL16S create their own network so you can connect your control device directly via Wi-Fi.

POWERFUL PROCESSING

With the DL32S and DL16S, you get powerful processing that replaces racks and racks of outboard gear, takes up WAY less space and is incredibly affordable.

THE MOST INTUITIVE CONTROL APP EVER

The Master Fader control app is where everything happens. Ultra-fast navigation with View Groups and overview, quick setup with factory and user-definable presets, recallable Onyx+ mic pres. Plus, prevent unwanted adjustments with access limits. With multi-platform support, you can take command of your mix, your way.

PROFX v3 SERIES

PROFESSIONAL EFFECTS MIXERS

Mackie ProFXv3 Series mixers are the ultimate affordable solution for live, home recording, and content creators. Now with Onyx mic preamps that offer 60db of headroom, easy single-knob compression, and 24 built-in FX. Record your tracks in 24-Bit/92kHz quality with 2×4 USB I/O and zero-latency hardware monitoring. Waveform™ OEM software bundle included.

PROFX6v3 PROFX10v3 PROFX12v3 PROFX16v3 PROFX22v3 PROFX30v3

	SPECIFICATIONS	ProFX6v3	ProFX10v3	ProFX12v3	ProFX16v3	ProFX22v3	ProFX30v3
Inputs	Input Channels	6	10	12	16	22	30
	Mono Mic/Line	2	4		8	14	22
	Mic/Stereo Line	-	-	3			
	Stereo Line	2	3	4			
	Mic Preamp	2	4	7	11	17	25
	Channel EQ	2-Band Fixed	3-Band Fixed		3-Band w/Sweepable Mid		
	Channel Inserts		4	4	8	14	22
Outputs	Aux Sends		1	2	4	4	4
	Subgroups			2	4		
	Main Outputs	XLR & 1/4"					
	Main Meters	2 × 8	2 × 12				
Other	Level Controls	Rotary Pots		60mm Faders			
	Internal FX	Stereo 24 Presets					
	Compressors		2	4	8	12	16
	Digital Recording	2×4 192kHz 24-Bit					
Construction	Power Supply	External 100240 VAC		Internal Universal 100240 VAC			
	Rackmount			Optional	Optional		
	Weight	2.6 lb / 1.2 kg	4.9 lb / 2.2 kg	7.9 lb / 3.6 kg	15.2 lb / 6.9 kg	19.8 lb / 9 kg	26.5 lb / 12 kg
	Dimensions	8.4 × 7.5 × 2.9 in 213 × 190 × 74 mm	11.9 × 10.7 × 3.3 in 302 × 272 × 84 mm	14.8 × 13.0 × 4 in 376 × 330 × 101 mm	17.1 × 17.7 × 4.4 in 434 × 450 × 112 mm	17.1 × 24.1 × 4.4 in 434 × 612 × 112 mm	17.1 × 32.3 × 4.4 in 434 × 820 × 112 mm

New PROFXv3+ SERIES

ANALOG MIXERS WITH ENHANCED FX, USB RECORDING MODES AND BLUETOOTH®

PROFX6v3+ PROFX10v3+ PROFX12v3+

Mackie ProFXv3+ Series mixers combine professional analog mixing with powerful enhancements for studio-quality recordings and live streams. Capture your performance with Onyx preamps and channel EQ, add computer audio via loopback, bring in calls via Bluetooth® and enhance your sound with upgraded GigFX+ eects on a color LCD screen.

FEATURES

Onyx Preamps

Our renowned Onyx mic preamps are designed for maximum studio-quality performance. Ultra-low noise and up to 60dB of gain means tons of headroom and crystal-clear sound, whether you re live streaming, podcasting or recording music.

GigFX+ Eects Engine

High-resolution GigFX+ eects include 2 FX Processors you can edit and save on the y via the full-size LCD screen. Combining the warmth of an analog recording console with precise digital eects, the ProFXv3+ Series is ideal for home studios and live events alike.

USB ecording Modes

ecord at pristine 24-bit / 92 kHz quality with a built-in 2×4 USB-C audio interface, complete with three recording modes: Standard for the full mix with effects, Loopback to include computer audio, and Interface to record channel -2 without effects or processing.

Bluetooth®

Use the dedicated Bluetooth® channel to send and receive audio from devices like smartphones and tablets. For podcasters, it s an eortless way to bring in phone calls. For musicians and performers, it s an easy way to stream outside music and backing tracks.

	SPECIFICATIONS	ProFX6v3+	ProFX0v3+	ProFX2v3+
Inputs	Input Channels	6	10	12
	Mono Mic/Line	2	4	
	Mic/Stereo Line			3
	Stereo Line	2	3	1 or 4
	Mic Preamp	2	4	7
	Global Phantom Power (+48V)	Yes		
	100 Hz Low Cut Filter	Yes		
	Channel EQ	2-Band Fixed	3-Band Fixed	
	Channel Inserts		4	4
Outputs	Aux Sends		1	2
	Subgroups			1
	Main Outputs	XL & 1/4"		
	Main Meters	2 × 8	2 × 2	
Other	Level Controls	Rotary Pots		60 mm Faders
	Internal FX	Stereo w/ 12 Customizable FX Processors		
	Compressors	2 (Button)	2 (Knob)	4 (Knob)
	Digital Recording	2×4 192kHz 24-Bit		
	Recording Modes	Standard, Loopback, Interface		
	USB Connector	USB-C		
	Accessories (Optional)	Mixer Bag	Mixer Bag Dust Cover	
Construction	Power Supply	External 100 240 VAC		Internal Universal 100 240 VAC
	Rackmount			Optional
	Weight	2.6 lb / 1.2 kg	4.9 lb / 2.2 kg	7.9 lb / 3.6 kg
	Dimensions	8.4 × 7.5 × 2.9 in 213 × 190 × 74 mm	11.9 × 0.7 × 3.3 in 302 × 272 × 84 mm	14.8 × 13.0 × 4 in 376 × 330 × 101 mm

New SHOWBOX

BATTERY-POWERED ALL-IN-ONE LIVE PERFORMANCE RIG WITH BREAKAWAY MIX CONTROL

ShowBox

Battery Powered All-In-One Performance Rig with Breakaway Mix Control

Set up in seconds with Mackie ShowBox, the battery-powered all-in-one performance rig that makes it easy to get great live sound anywhere.

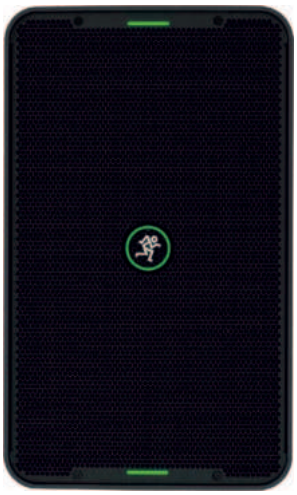
ShowBox offers all the audio inputs for solo gigs and small bands, replacing instrument amps and PA speakers and adding effects you can tweak from your mic stand with the breakaway controller.

You can even take your performance online with a USB-C interface for streaming and recording, while playing over backing tracks via Bluetooth®.

With essential performance features and plenty more to discover, Mackie ShowBox lets you carry your whole rig in one trip from the car.

FEATURES:

- Breakaway Mix Control
- Inputs for Mics, Guitars, Keys and More
- 6 FX Engines (2 FX per channel)
- Stream/Record via USB-C and MicroSD
- Voicing Modes: Amp/PA, Indoor/Outdoor
- Built-in Looper and Tuner
- Bluetooth® Streaming
- Passthrough USB Charging (for mobile devices)
- Up to 12 Hours of Playtime with Included Battery



APPLICATIONS:

Singer-songwriters / buskers, full bands, announcement PA, karaoke, clubs / cafés, houses of worship, schools, small restaurants, outdoor events / barbeques, banquet halls, conference rooms, boardrooms, and many, many more.

CR STEALTHBAR

DESKTOP PC SOUNDBAR WITH BLUETOOTH

Can't fit traditional speakers on your computer desk but still want high-quality sound that knocks your socks off?
CR StealthBar is built just for you. Delivering crystal-clear, punchy sound in a compact soundbar design for your desktop.

FEATURES

DESIGNED BY PRO AUDIO NERDS

Like the rest of the CR Series, StealthBar shares a legendary Mackie acoustic design and tuning pedigree. Tuned for crisp highs, clear midrange, and punchy bass, it's an absolute monster that brings the powerful live sound and studio experience to your desk.

WIRED OR WIRELESS?

CR StealthBar offers a handful of ways to get connected. Get digital with USB, go wireless and pair it via Bluetooth®, or connect to the headphone output of any device.

BIG SOUND FOR SMALL SPACES

CR StealthBar is the ultimate desktop audio system when you're low on space. It fits perfectly under your computer monitor and stays out of the way withoutsacrificing sound quality. CR StealthBar delivers massive sound despite its size.

WORK, PLAY, AND EVERYTHING IN BETWEEN

Choose from 3 presets: Music, Voice, and Game, that enhance the sound in unique ways.
From content creation to movies to gaming, tailor CR StealthBar to sound perfect for you with the push of a button.

QUICK CONTROL

Blasting some embarrassing "music" when your friend walks in?
Hit the convenient mute or do a smooth fadeout with the front panel volume control.

PERFECT FIT

Included is an extra set of taller feet so it can sit neatly above just about any monitor stand.
This also ensures any cables can be ran under CR StealthBar for a super clean look.

CREATIVE REFERENCE™

MULTIMEDIA MONITORS

CR-X Series Creative Reference Multimedia Monitors offer studio-quality sound with cosmetics that compliment any desk whether you're making music, creating content, or just relaxing to your favorite tunes. Available in a vast range of sizes from 3" to 8" with Bluetooth® option plus an 8" subwoofer with Bluetooth, CR-X has the perfect match for your needs.

SPECIFICATIONS

Model Name	CR3-X	CR3-XBT	CR4-X	CR4-XBT	CR5-X	CR5-XBT	CR8-XBT	CR8S-XBT
Power (Watts)	50W		50W		80W		160W	200W
Woofer	3" Polypropylene		4" Polypropylene		5" Polypropylene		8" Polypropylene	8" Polypropylene
Tweeter	.75" Silk-dome							
Inputs	1/4" TRS, RCA, 1/8" Aux in	1/4" TRS, RCA, 1/8" Aux in, Bluetooth	1/4" TRS, RCA, 1/8" Aux in	1/4" TRS, RCA, 1/8" Aux in, Bluetooth	1/4" TS/TRS, RCA, 1/8" Aux in	1/4" TRS, RCA, 1/8" Aux in, Bluetooth	1/4" TRS, RCA, 1/8" Aux in, Bluetooth	1/4" TRS, RCA, Bluetooth
Outputs	None							1/4" TRS, RCA
Power Supply	100120VAC or 220240VAC							
Dimensions	Height: 8.1 in /206 mm Width: 5.5 in /140 mm Depth: 7.1 in /180 mm Weight: 7.8 lb / 3.54 kg		Height: 8.8 in /224 mm Width: 6.1 in /156 mm Depth: 8.3 in /211 mm Weight: 10.2 lb / 4.63 kg		Height: 10.3 in /262 mm Width: 6.9 in /175 mm Depth: 9.3 in /236 mm Weight: 14.9 lb / 6.76 kg		Height: 14.8 in /376 mm Width: 9.9 in /251 mm Depth: 13.6 in /345 mm Weight: 35.3 lb / 16 kg	Height: 14 in /356 mm Width: 12.6 in /320 mm Depth: 16.2 in /411 mm Weight: 24.2 lb / 16 kg

MR SERIES

POWERED STUDIO MONITORS

MR Series Powered Studio Monitors offer unmatched performance and superior mix translation so you can listen with confidence knowing your mix will sound great anywhere. The logarithmic waveguide, Acoustic Space controls and precision tuning delivers a whole new level of clarity and accuracy. Add the MRS10 Powered Studio Subwoofer for powerful, deep low-end.

MR524

5” Powered Studio Monitor

- Designed for superior mix translation and accuracy for professional results in any studio
- Equipped with Mackie’s proven logarithmic waveguide design
- 1” silk dome tweeter
- 5” polypropylene woofer
- 50 watts of Class A/B amplification
- Frequency response: 45 Hz – 20 kHz
- HF boost/cut for particularly dull or bright sounding rooms
- Reduced distortion and enhanced low frequency response
- Flexible inputs for connection to any audio source

MR624

6.5” Powered Studio Monitor

- Designed for superior mix translation and accuracy for professional results in any studio
- Equipped with Mackie’s proven logarithmic waveguide design
- 1” silk dome tweeter
- 6.5” polypropylene woofer
- 65 watts of Class A/B amplification
- Frequency response: 38 Hz – 20 kHz
- HF boost/cut for particularly dull or bright sounding rooms
- Reduced distortion and enhanced low frequency response
- Flexible inputs for connection to any audio source

MR824

8” Powered Studio Monitor

- Designed for superior mix translation and accuracy for professional results in any studio
- Equipped with Mackie’s proven logarithmic waveguide design
- 1” silk dome tweeter
- 8” polypropylene woofer
- 85 watts of Class A/B amplification
- Frequency response: 35 Hz – 20 kHz
- HF boost/cut for particularly dull or bright sounding rooms
- Reduced distortion and enhanced low frequency response
- Flexible inputs for connection to any audio source

MRS10

10” Powered Studio Subwoofer

- Powerful, deep extended low end for the studio, perfect for electronic music & hip-hop
- Designed for responsive and accurate low frequency reproduction
- 120 watts of Class A/B amplification
- 10” glass aramid composite woofer
- Shelf-ported for satisfying, deep low end
- Stereo XLR and TRS connection offer input flexibility and outputs for connection to mains
- Adjustable 40Hz to 180Hz crossover point
- Polarity switch (0 degrees / 180 degrees)
- Footswitch bypasses the subwoofer and returns the connected monitors to full range
- Vibration-absorbing rubber feet minimize undesirable resonances
- Allows your mains to focus on highs/mids for optimum studio performance

BIG KNOB

MONITOR CONTROLLER | INTERFACES

SPECIFICATIONS	Big Knob Passive	Big Knob Studio	Big Knob Studio+
FEATURES			
Mono, Mute, Dim	Yes	Yes	Yes
I/O Switching	2 × 2	3 × 2	4 × 3
Input Metering	None	Dual 16-Segment LED	Dual 16-Segment LED
Mic Preamps	N/A	Yes, ONYX w/ +48V	Yes, Onyx w/ +48V
Talkback	No	Yes	Yes, w/Internal & External Mic Options
Cue Section, Cue Outputs	No	Yes	Yes
USB FEATURES			
I/O	N/A	2 × 2 USB 2.0	2 × 4 USB 2.0
Resolution	N/A	192 kHz / 24-bit	192 kHz / 24-bit
Recording Path	N/A	Direct to USB	Selectable - USB or Analog Output

BIG KNOB PASSIVE

BIG KNOB STUDIO

BIG KNOB STUDIO+

BUNDLES

CREATOR BUNDLE

PERFORMER BUNDLE

STUDIO BUNDLE

EM SERIES

PROFESSIONAL MICROPHONES

Whether you're thinking of starting your own podcast, becoming the next big streamer, or even getting your music noticed on social media, EM Series Professional Microphones are here to make it happen. EM Microphones offer a wide array of models, from straightforward plug-and-play to feature-rich, making it easy to choose the perfect mic for you.

A no-brainer for recording or streaming dialogue, singing, & other vocal activities. Just slide it over your mic and instantly reduce those nasty pops! It keeps your audio much more even and consistent as well as protects your mic from saliva.

SPECIFICATIONS

Model Name	EM-USB	CARBON	CHROMIUM
Microphone Type	Condenser	Condenser with Onyx preamp circuitry	
Connection	USB-C		
Pickup Pattern	Cardioid	Selectable: Stereo, Cardioid, Super-cardioid, Omni, Bi-directional (Figure 8)	Selectable: Stereo, Cardioid, Super-cardioid, Omni, Bi-directional (Figure 8)
Outputs	1/8″ Headphone		1/8″ Headphone w/ Direct/USB Blend control
Inputs	None		1/4″ Instrument 1/8″ Stereo Aux In
Other Features	Gain control, Mic Mute		Gain control, Mic mute, 5-segment stereo meters, Aux/Instrument Gain controls
Whats in the Box	EM-USB, Mic Clip, Tabletop Tripod Stand, USB Cable	Carbon, Desktop Stand, USB Cable	Chromium, USB Cable

ONYX

USB AUDIO INTERFACES | ANALOG MIXERS WITH USB

Perfect for singer-songwriters & content creators, the Onyx Artist 1•2™ features an Onyx mic pre plus a ¼" input with Hi-Z switch for quick & easy recording. The Onyx Producer 2•2™ expands the versatility with dual Onyx mic pres and MIDI I/O for controllers, synthesizers & more.

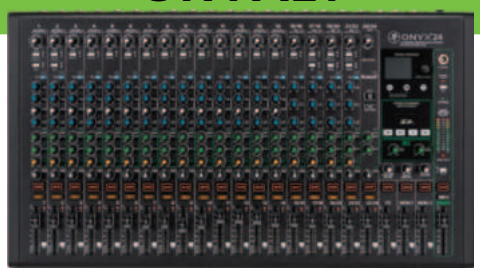
ONYX Artist 1·2

ONYX Producer 2·2

SPECIFICATIONS	Onyx Artist 1·2	Onyx Producer 2·2
Interfacing	2 × 2 USB 2.0	
Resolution	24 -Bit/192kHz	
Output Type	Stereo TRS	
Hi-Z or Line	Hi-Z Line/Instrument	
Preamp	Onyx Mic Preampsw/ Phantom Power	
Number of Preamps	(1) One	(2) Two
1 × 1 MIDI I/O	No	Yes
Monitor Blend Control	No	Yes
Input Metering	Signal Overload LED	
Bus Powered	Yes	
Kensington Lock	Yes	

ONYX16

ONYX24



	SPECIFICATIONS	Onyx16	Onyx24
Inputs	Input Channels	16	24
	Mono Mic/Line	8	14
	Mic/Stereo Line	4	4
	Stereo Line	1	1
	Mic Preamp Type	Onyx Mic Pre w/ up to 60dB of gain	
	Channel Inserts	Ch. 58	Ch. 1114
Outputs	Aux Sends	2 + FX Send	2 + FX Send
	Bluetooth® and Stereo 1/8"	Ch. 17/18	Ch. 23/24
	Main Outputs	L/R TRS and XLR	
	Main Meters	12-Segment LED	
	Channel Solo	AFL / PFL	
Other	Level Controls	60mm Faders	
	Internal FX	Adjustable Delay, Reverb, Chorus, and more	
	Built-In Display	Full-Color Display and Single-Knob Interface. Adjust FX parameters, recall presets, manage and play recordings/music	
	USB Recording	96 kHz / 24-Bit 18×4 on Mac/PC	96 kHz / 24-Bit 24×4 on Mac/PC
	SD Card Recording	96 kHz / 24-Bit 2×2	

MARANI®
Digital Processors

DPA Series

DPA480 / DPA480P

4 IN x 8 OUT

DPA480

4 IN x 8 OUT DSP with TCP / IP

DSP & Processing

Input / Output	4 In x 8 Out
Parametric Equalization	30 PEQ filters per input; 11 filters per output
Input & Output Gain	From -18dB to +12dB by 0.1dBu resolution steps
Filter Type	Bell, Shelving, HP/LP, Band Pass, Notch Filter, All Pass; Gain:+/-15dBu
Crossover Section HPF/LPF	Butterworth 6/12/18/24/36/48dB per octave Bessel 12/24dB per octave Linkwitz-Riley 12/24/36/48dB per octave
Compressor	Ratio: 2:1~32:1; Knee: 0~100%;Makeup: -12dBu ~ +12dBu Attack time: 5ms ~ 200ms; Release time: 0.1s ~ 3s
Output Peak Limiter	Threshold: 20dBu ~ -10dBu; Attack time:1ms ~ 900ms; Release time: 0.1s ~ 5s
Delay	480 ms per each input, 270ms per output
Device Presets	User Presets : 32

DPA480P

4 IN x 8 OUT DSP

DSP & Processing

Input / Output	4 In x 8 Out
Parametric Equalization	30 filters per input; 7 filters per output
Filter Type	Bell, Hi/Lo-Shelving, HP/LP, Band Pass, Notch and All Pass Filters selectable
Filter Gain	From -15dBu up to +15dBu by 0.5dBu resolution steps
Input & Output Level	From -18dB to +12dB by 0.1dBu resolution steps;
Crossover Section HPF/LPF	Butterworth 6/12/18/24/36/48 dB per octave Bessel 12/24 dB per octave Linkwitz-Riley 12/24/36/48 dB per octave
Output Peak Limiter	Threshold from -14dBu up to +16dBu and Byp Attack time from 1ms up to 900ms;Release time from 0.1 sec up to 5 sec
Delay	420.998 ms per input channel; 128. 998 ms per output channel

MIR Series

MIR480A / MIR360A / MIR260A

4 IN x 8 OUT / 3 IN x 6 OUT / 2 IN x 6 OUT

MIR480A

4 IN x 8 OUT DSP with FIR

MIR360A

3 IN x 6 OUT DSP with FIR

MIR260A

2 IN x 6 OUT DSP with FIR

DSP processing

Input / Output----------	4 In x 8 Out / 3 In x 6 Out / 2 In x 6 Out
Signal generator----------	White noise/pink noise, level range: -30dBu~+10dBu
Input & Output gain----------	-18 dB ~ +12 dB, step accuracy is 0.1dB
Parametric equalizer----------	Input channels up to 31 optional types of PEQ, output channels up to 8 optional types of PEQ
IIR crossover filter----------	Butterworth slope: 6/12/18/24/36/48dB per octave Bessel slope: 12/24dB per octave Linkwitz-Riley slope: 12/24/36/48dB per octave NXF horn filter slope is 40/45/50/50/55/60/65/70/75dB per octave
MIR linear phase filter----------	Linkwitz-Riley: 24/48dB per octave,NXF-40
FIR crossover filter----------	type; high pass/low pass/band pass/external import Taps range: 256 ~ 512, slope range 21 ~ 120dB per octave Time window type: Rect / Sinc / Keiser / Hanning / Hamming / Blackman /Blackman-Harris/ Blackman-Nuttal / Nuttal/ Keiser -Bessel/Sine
RMS compressor----------	Starting threshold range: -10dBu~ +20dBu; Compression ratio range: 2~32: 1; Soft and hard inflection point: 0~100% start time: 0.1ms~1000ms; Release time: 10ms~15000ms Gain compensation: Maximum 12dB
Peak limiter ----------	Threshold range: -10dBu~ +20dBu Start-up time: 1ms~1000ms; Release time: 10ms~3000ms
Hard limiter----------	Threshold range: -10dBu~ +18dBu
Delay----------	The adjustable delay time of each input channel + output channel is 452ms, Step accuracy 0.0104ms (10.4us)

MIR / DPA Series

MIR480E / MIR360E / MIR260E

4 IN x 8 OUT / 3 IN x 6 OUT / 2 IN x 6 OUT

DPA880T/AMT

8 IN x 8 OUT

MIR480E

4 IN x 8 OUT DSP with FIR Filters

MIR360E

3 IN x 6 OUT DSP with FIR Filters

MIR260E

2 IN x 6 OUT DSP with FIR Filters

DSP & Processing

Input / Output	4 In x 8 Out / 3 In x 6 Out / 2 In x 6 Out
Signal generator	White / Pink noise Level range:-30dBu~+10dBu
Input & output Gain	-18 dB ~ +12 dB,step 0.1dB
Parametric equalizer	Input channels up to 31 optional types of PEQ output channels up to 8 optional types of PEQ
MIR linear Phase filter	Linkwitz-Riley: 24/48dB per octave(Linear Phase)
FIR crossover filter	Type: high pass/low pass/band pass/external import Taps range:256 ~ 512,slope range 21 ~ 120dB per octave Time window type : Rect / Sinc / Keiser /Hanning / Hamming / Blackman /Blackman -Harris/ Blackman Nuttal / Nutta/Keiser -Bessel/Sine

RMS compressor	Starting threshold range:-10dBu~ +20dBu Compression ratio range:2~32: 1 Soft and hard knee: 0~100% Attack time:0.1ms~1000ms Release time: 10ms~15000ms Gain compensation: Maximum 12dB
Peak limiter	Threshold range: -10dBu~ +20dBu Attack time: 1ms~1000ms Release time: 10ms~3000ms
Delay	The adjustable delay time of each input channel + output channel is 452ms, Step accuracy 0.0104ms
FIR filter	Each input channel and output channel can import FIR filter with 48kHz sampling rate and 512 taps

DPA880T/AMT

8 IN x 8 OUT FIR Filter

DSP & Processing

Input / Output	8 In x 8 Out
Input Equalization	3-band parametric selected as Peaking or Low/High Shelving with variable Q per input channelLow/High Pass 1St order filter per input channel
Output Equalization	5-band parametric EQ selected as Peaking or Low/High Shelving with variable Q per output channel
Filter Gain	From -12dBu up to +12dBu by 0.5dBu resolution steps
RMS Compressor	Threshold from 18dBu up to -30dBu

MIR480I

Flagship MIR 4 IN 8 OUT Audio System Processor

Technical Parameter

Input/Output	4x8 / 8x8
Input type	Analog、Digital、Dante(MIR880F)
Dynamic EQ	DEQ x8
Sampling frequency	96kHz
Input impedance	＜10KΩ
Output impedance	150Ω
A/D Dynamic range	123dB
D/A Dynamic range	129dB
Max input level	+22dBu
Max output level	+21.5dBu

THD+N	≦0.002%(+4dBu 1kHz)
Frequency response	20Hz~45kHz ±0.3dB
Crosstalk	≦-98dB
SNR	≧116dB (A weighting)
Noise floor	≦-96dBu (A weighting)
CMRR	65dB
Connection Type	TCP/IP、RS485
Preset	50
Size	482x44x253mm 1RU
Net/Gross weight	3.3 Kg / 3.8 Kg

MIR880F

Flagship MIR 8 IN 8 OUT Audio System Processor

DSP Processing

input & output gain	-18 dB ~ +12 dB, step 0.1dB
Noise gate	Threshold range: -80dBu~-45dBu Attack time: 1ms~1000ms; Release time: 1ms~1000ms
Dynamic loudness filter	Gain range: 0dB-10dB Attack speed: fast/medium/slow
Parametric equalizer	Input channels up to 27 optional types of PEQ output channels up to 8 optional types of PEQ
Optional types include	Bell filter, 1st order high Shelf filter, 2nd order high Shelf filter Variable Q high Shelf filter, 1st order low Shelf filter, 2nd order low Shelf filter Variable Q low Shelf filter, 1st-order low-pass filter, 2nd-order low-pass filter Variable Q low pass filter, 1st order high pass filter, 2nd order high pass filter Variable Q high pass filter, band pass filter, notch filter 1st order all-pass filter, 2nd order all-pass filter with variable Q value
center frequency	adjustable within the frequency range of 20Hz~20kHz with a step accuracy of 1Hz
Q value / bandwidth	The Q value range of Bell filter is 0.4~128, the step is 0.01 The range of the Q value of the Chevron/high-pass/low-pass filter is: 0.1~5.1, and the step is 0.01 The value range of bandpass/notch filter Q is: 4~104, step is 1
Equalizer gain range	-15dB ~ +15dB
FIR filter	The plugin supports FIR filters up to Max 4096 Taps Each input/output has a Max 512 Taps FIR filter
Auto EQ	Equipped

IIR crossover filter	Butterworth slope: 6/12/18/24/36/48dB per octave Bessel slope: 12/24dB per octave Linkwitz-Riley slope: 12/24/36/48dB per octave NXF horn filter slope is 40/45/50/50/55/60/65/70/75dB per octave
MIR linear phase filter	Butterworth slope: 6/12/18/24/36/48dB per octave Bessel slope: 12/24dB per octave Linkwitz-Riley slope: 12/24/36/48dB per octave NXF horn filter slope is 40/45/50/50/55/60/65/70/75dB per octave
FIR crossover filter	type; high pass/low pass/band pass/external import Taps range: 256 ~ 512,slope range 21 ~ 120dB per octave Time window type: Rect / Sinc / Keiser /Hanning / Hamming / Blackman /Blackman-Harris/ Blackman-Nuttal / Nuttal/Keiser -Bessel/Sine
RMS compresso Starting	hreshold range: -8dBu~ +22dBu; Compression ratio range:2~32: 1; Soft and hard knee: 0~100% Attack time:0.1ms~1000ms; Release time: 10ms~15000ms Gain compensation:Maxi 12dB
Peak limiter	hreshold range: -8dBu~ +22dBu Attack time: 1ms~1000ms; Release time: 10ms~3000ms
Hard limiter	Threshold range: -8dBu~ +22dBu
Delay	he adjustable delay time of each input + output is 452ms,Step accuracy 0.0104ms (10.4us)

DPA / LPP Series

DPA260P / DPA206RTA / LPP-260A

2 IN x 6 OUT

DPA260P

2 IN x 6 OUT DSP

DPA260RTA

2 IN x 6 OUT DSP

DSP & Processing

Input / Output	2 In x 6 Out
Parametric Equalization	11 filters per input,7 filters per output
Filter Type	Bell, Shelving
Input gain	From -12dB to +12dB by 0.1dBu resolution steps;
Output gain	From -18dB to +12dB by 0.1dBu resolution steps;
Crossover Section HPF/LPF	Butterworth 6/12/18/24/36/48 dB per octave/Bessel 12/24 dB per octave Linkwitz-Riley 12/24/36/48 dB per octave
Input / Output RMS Compressor	Attack time from 1ms up to 1000ms;Release time from 10ms up to 1000ms Threshold from -14dBu up to +16dBu and Byp Ration 2:1~100:1; Knee: 0% ~ 100%
Output Peak Limiter	Threshold from -14dBu up to +16dBu and Byp Attack time from 5ms up to 200ms;Release time from 0.1 sec up to 3 sec
Delay	900 ms 10.4us increment/decrement steps per input channel/ 340 ms 10.4us increment/decrement steps per output channel
Device Presets	48 User Presets

LPP260A

2 IN x 6 OUT DSP with FIR

DSP & Processing

Input / Output	2 In x 6 Out
Parametric Equalization	13 PEQ filters per input; 7 filters per output
Filter Type	Bell, Shelving, HP/LP, Band Pass, Notch Filter, All Pass
Input&Output Gain	From -18dB to +12dB by 0.1dBu resolution steps
Input Noise Gate	Threshold from -80dBu up to -50dBu, or not active Attack time from 1ms up to 1000ms; Release time from 10ms up to 1000ms
Input/Output RMS Compressor	Threshold from 20dBu up to -10dBu; Makeup from -12dBu to +12dBu Ratio: 2:1~32:1; Knee: 0~100%;
Output Peak Limiter	Threshold from 20dBu up to -10dBu; Attack time from 0.1ms up to 900ms; Release time from 0.04sec up to 6sec
Delay	480 ms 10.4us increment/decrement steps for each input, 340ms 20.8us Attack time from 0.1ms up to 5000ms; Release time from 0.001sec up to 10sec increment/decrement steps for each output
Device Presets	Up to 16 User Presets

PRO-248

. Power by external +48V phantom power
. Built-in UNiKA-PROTM EI30A10E isolation transformer
. Use British OEP PT-4 1:1 audio pulse transformer in phantom power circuit
. +48V status indicator on the upper cover
. The input socket uses a pair of TRS jacks
. Use a pair of TRS jacks as through out terminal
. At 0dB input, the set load impedance is 260KΩ, which can clearly show the high frequency overtones , harmonic and graininess of electric guitars or electric bass
. 50Ω ultra-low impedance output, suitable for various types of mixers and pre-amp equipment
. There is 0dB/-20dB input signal attenuation switch with status indicator
. The output is equipped with a GND/LIFT switch

PRO-148

. Power by external +48V phantom power
. Built-in UNiKA-PROTM EI30A10E isolation transformer
. Use British OEP PT-4 1:1 audio pulse transformer in phantom power circuit
. +48V status indicator on the upper cover
. The input socket uses Combo jack
. Use TRS jack as through out terminal
. At 0dB input, the set load impedance is 260KΩ, which can clearly show the high frequency overtones, harmonic and graininess of electric guitars or electric bass
. 50Ω ultra-low impedance output, suitable for various types of mixers and pre-amp equipment
. There is 0dB/-20dB input signal attenuation switch with status indicator
. The output is equipped with a GND/LIFT switch

PRO-IS2

. One input & three output audio splitter
. CH-1/CH-2 are equipped with separate UNiKA-PROTM EI9AE3R3 isolation transformer
. Use XLR jack for input
. Set the PHASE REVERSE button for CH-2 input
. The output is equipped with independent GND/LIFT switches

PRO-USB

• Enhanced ΔΣ oversampling DAC architecture – 32-bit resolution – Up to 384-kHz sampling rate – Low clock jitter sensitivity – Auto mute detection
• Integrated high performance, ground-centered stereo headphone outputs
• 130dB dynamic range (A-weighted)
• -115dB total harmonic distortion + noise (THD+N)
• 110dB inter-channel isolation
• Up to 2-Vrms stereo output
• Headphone power output, 30mW per channel into 32Ω/ 5mW per channel into 600Ω

Pro-One / Pro-Two

. Built-in UNiKA-PROTM EI30A10E isolation transformer / for each channel
. The input socket uses Combo jack
. Use TRS jack as through out terminal / a pair of TRS jacks
. There is 0dB/-20dB input signal attenuation switch
. The output is equipped with a GND/LIFT switch

PRO-3SP

. One input & three output audio splitter
. CH-1/CH-2 are equipped with separate UNiKA-PROTM EI30A10E isolation transformer
. Use XLR jack for input
. Set the direct output of MONITOR OUT without isolation transformer
. The output is equipped with a shared GND/LIFT switch

Pro-MMD

. Built-in UNiKA-PROTM EI30A10E isolation transformer for each channel
. The input socket uses a pair of TRS jacks, a pair of RAC and a mini TRS.
. All input jacks can be using for through out.
. There is 0dB/-20dB input signal attenuation switch
. The output is equipped with a GND/LIFT switch

PRO-BT5

• Built-in UNiKA-PROTM EI30A10E isolation transformer for each channel
• Built-in headphone amplifier with independent mini TRS jack and volume control
• 24bit convert rate and 48KHz over sampling
• Compatible with Windows, Mac OS, iOS and Android systems
• Ver 5.0 Bluetooth module with BR/EDR dual mode control and A2DP/AVRCP/HFP/HSP/HOGP/PBAP/SPP profiles support and BLE mode
• Type-C USB power supply terminal to be supplied power by external 5VDC power adaptor, power bank or USB port from computer.
• The output is equipped with a GND/LIFT switch

DI-USB

DI-USB

Pristine Audio and
Ultra-Quiet Performance!

- Stereo USB Laptop Direct Box.
- High impedance direct input for electronic musical instrument signal feed.
- High performance 24bit digital audio converter .
- Ready to use without the need of a driver .
- Standard USB type-B port for connection to computer .
- 3.5mm analog headphone output to check signal.
- Level control for outputs and headphone.
- The direct input signal will be mixed to the USB stereo signal at the output stage.
- Selectable 3 steps attenuator for Hi-Z direct input.
- Accept power from 9V battery, +20V to +48V phantom power or 5V from USB.
- 2 channel XLR Balanced Low-Z output with isolation transformer .

DSP428

Audio Processor

· 4 analog input
· AES/EBU input
· Dante audio network input
· 24-bit 48kHz delta-sigma A/D and D/A converters with 128x oversampling.
· 64-bit Digital processing
· Excellent dynamic range of 118dB
· Mac or Windows PC application software via USB port
· 10 PEQ bands per input and output and a frequency range up to 30kHz

Input Type ：	4 analog input, 1 AES/EBU input, 1 Dante audio network input
Output Type ：	8 Analog Electronically Balanced outputs
Dynamic range (inputs) ：	118dB
Nominal input level ：	+6dBu
Nominal output level ：	+6dBu
Digital processing ：	64 bits
96KHz AD/DA converter ：	24bits
Frequency response 10Hz to 22kHz ：	±0.25dB
Parametric EQ filters can be set as ：	Bell, High Shelf, Low Shelf, Notch, Band Pass, High Pass, Low Pass, AllPass
Parametric EQ filters Q value adjustable ：	0.2 ~ 25
Notch filters Q value adjustable ：	10 ~ 80
Delay per input / output ：	2000ms
Limiter & Compressor for each input and output:	
Ratio range ：	1.2:1 to Inf:1
Release time range ：	1ms ~ 10sec
Makeup gain ：	-12dB~ +12dB
Latency ：	640μs
Presets can be stored &recalled on the unit and backup to the PC ：	50

Networked Break-in/Break-out Box
NBB-1616/NBB-1616E

- 16 x 16 fully digitized Break-in/Break-out box
- Dante-enabled networked breakbox or stagebox
- Streaming audio in robust standard Ethernet cable (a.k.a., Digital Snake)
- Support Layer 3 of IEEE 802.3 Ethernet standard
- Easily organize network topology with regular Ethernet switch
- Redundant networking mode for fault tolerant audio distribution, or
- Daisy-Chaining networking mode for easy coverage extending
- Audio routing can be set by Dante-enabled audio console or workstation, or
- Control and monitor by dedicated Dante Controller software
- 24-bit PCM coding with sample rate up to 192KHz
- PPM meter with clip hold for input/output level monitoring
- Option to double channel capacity with an optional expansion box
- AES3 Digital I/O expansion box available on request

The NBB-1616/NBB-1616E is a fully-digitalized 16 x 16 Break-in/Breakout box which streams multi-channels audio throughout already broadly-installed Ethernet network.

Networked Audio Receiver / Transmitter
NBB-04R / NBB-04T

- Dante-enabled networked Audio Receiver (NBB-04R) and Transmitter (NBB-04T)
- Streaming audio in robust standard Ethernet cable (a.k.a., Digital Snake)
- Easily organize network topology with regular Ethernet switch
- Uncompressed 24-bit PCM coding with sample rate up to 96KHz
- Two RJ-45 ports make Daisy-chain cascading feasible
- Powered by either PoE or 48V adapter
- Gain or Attenuate control for each channel
- Phantom power engagement control per channel (NBB-04R)
- A signal clip indicator for all inputs (NBB-04R)
- XLR Combo sockets for both XLR and phone plugging (NBB-04R)
- Routing and other configuration are set with Dante Controller software

SPT.LIGHT
PHASE TESTER

- Audio speaker system polarity checker
- XLR Signal cable wiring checker.
- Built-in Green Laser pointing device.
- Built-in working LED flashlight.
- Portable light weight, separate test signal generator and receiver.
- 9V battery operation.

SPT.LIGHT

Generator	Pulse Rate	1Hz
	Frequency Spectrum, Electrical	1Hz - 20kHz
	Frequency Spectrum, Acoustic	200Hz - 5kHz
	Output Level, Electrical	0V - 1V (Acoustic Level Is Fixed)
	Output Load impedance	>1kΩ
	Output Source Impedance	1kΩ
	Power	9V PP3 Battery (=Approx 50 Hours)
	Power Drain	10mA
	Flashlight	5 LED Lights
Receiver	Frequency Spectrum, Electrical	1kHz - 20kHz
	Frequency Spectrum, Acoustic	10Hz - 1kHz
	Input Impedance	1kΩ for Mic; 10kΩ for Line
	Input Level	10mV - 1V for Mic; 0.5V - 50V for Line
	Output Level	0V - 1V
	Power	9V PP3 Battery (=Approx 50 Hours)
	Power Drain	10mA
	Laser Light	Green Light 4mw
	Operating Temperature	0°C - 50°C
	Storage Temperature	-30°C - +75°C

Networked Audio Transceiver
NBB-0202

The NBB-0202 bidirectionally transmits 2x2 audio to and from Dante audio network.

Hurricane Beam 20R

Voltage Range	100V~240V,50-60HZ
DMX Channels	16/20 Channels
Control Mode	DMX512, Master-Slave, Sound, Auto
Power	550W
Color Temperature	8000K
Life span	1500 hours
Light Source	SIRIUS OSRAM 371W(18R) hri lamp
Color Wheel	14 color wheel + blank
Gobo Wheel	13 static gobo + blank
Prism	8+16+24 prism and 16 prism
Lens	High precision optical lens
Wash Effect	Adjustable wash effects angle
Focus; Frost function	Linear Focus
Dimmer	0-100% linear dimmer
Beam Angle	2 degrees
Pan, Tilt	540°, 270°
Resolution	16bit
IP Rating	IP20
Gross Weight	23kgs
Size	380x270.8x610mm

Hurricane Beam 18R

Voltage Range	100V~240V,50-60HZ
DMX Channels	16 Channels
Control Mode	DMX512, Auto mode
Display	LCD display and rotating button control
Color Temperature	8000K
Life span	2000 hours
Light Source	OSRAM 380W(18R) hri lamp
Color Wheel	14 colors+open+CTO,Semi color effect
Gobo Wheel	6 fixed gobo+ 2 rotating gobo + 4 open
Prism	8-facet prism+16-facet or 16 facet +16 facet prism
Optical Lens	High penetration coating lens
Frost Effect	Adjustable soft spot angle
Focus	Linear Focus
Dimmer	0-100% linear dimmer
Beam Angle	0-2.8 degrees
Strobe	Two-pieces strobe plate (0.5-13FPS)
Motor	10 pcs super silent motors, 16bit
IP Rating	IP20
Net Weight	15.86kgs
Size	361x300.8x564mm

Hurricane Beam 12R

Light Source	Original Philips MSD platinum 250W
Control Mode	DMX512, Master-Slave, Auto, Sound
Lens Diameter	168mm High precision optical lens
Beam Angle	2°
Pan, Tilt	540°, 270°
Motor	3 phase silence motor for quiet movement
DMX Channel	16/20 Channels
Color Wheel	13 colors + open
Gobo Wheel	13 fix gobo +1 open with shake effect
Strobe	Mechanical shutter 0.5-13t/s with adjustable speed
Dimmer	0-100% linear dimmer
Power	300W
Voltage Range	100-240V, 50-60Hz
Size	337x263x494mm
Net Weight	15kgs
Gross Weight	17kgs
IP Rating	Ip20
Resolution	16-bit
Prism1	Rotating 8-facet prism
Prism2	Rotating 16-facet prism; Rainbow effect

Galaxy Thunder S-400

Blinder

Input Power	AC 110V - 240V, 50/60Hz
Power Consumption	450W
LED	4pcs*100W warm white
IP Rate	IP20
Lifetime	50,000 hours
DMX Channel	2/3/6/9 Channels
Dimmer	0-100% linear dimming, separate strobe
Environmental Temperature	-20°C to 40°C
Control Mode	DMX512/Master-slave/Auto/Sound
Display	LCD Display
Size	395x370x220mm
Net Weight	11kgs

VOLITE

Galaxy Thunder 3W*54 / 19x10W Par

LED Source (RGBW)	54x3W(R12/G14/B14/W14) LED units
LED Source (Warm White)	54x3W(W54) LED units
Input Voltage	AC 100V - 240V, 50/60Hz
Power	180W
Lamp Luminous Flux	3000 lm
Lamp Luminous Efficiency	110 lm/w
Strobe	0-2 times/second
Working Lifetime	100,000 hours
IP Rating	IP20
Certification	CE, RoHS
Display	Digital/LCD
Dimmer	32bit, 4500Hz linear dimming
DMX Channel	8 Channels
Control Mode	DMX512,Master/slave,Sound control,Auto
Body, Colour	Aluminum, Black
Beam Angle	25°(or15°, 45°)
Weight	Net Weight: 3.2kgs, Gross Weight: 4.5kgs
Packing Size	31x26x39cm

LED Profile 200

LED Source	COB LED, 3200K/5600K optional
Input Voltage	AC 100V - 240V, 50-60Hz
Rated Power	200W
CRI	93
Beam Angle	14°/19°/26°/36°
Manual Dimming	0-100%
Optical Lens	Special imaging glass optical lens group
Control System	STM32 DMX512
Product Size	538x270x417mm
Weight	9.5kgs
Accessory	Signal cable, power cable included
Options	Warm White / Cool White

Pilot 2000
Light Controller

- Universal DMX controller for 40 units with a max of 36 channels each
- Constant monitoring of output parameters thanks to large back-lit display
- Control blocks of 6 channels using the scroll function
- Assign functions to the faders with the editable internal libraries
- 40 chases - Programs - Presets - Psychos.
- Ensure perfect fixture positioning with twin co-ordinate system: absolute and relative
- Mount in a standard 19” rack (5 units), or use as a desk-top unit
- SMPTE socket for changing memories in sync, independent regulation of scene and preset crossfade times
- Audio input and built-in microphone for music sync functions
- MIDI in/thru/out connector
- Data and memories can be downloaded to PC
- Jack socket for pedal for stepping up/down through memories
- Universal AL4 switching power supply included
- Net Weight: 3.24kg
- Gross Weight: 4.48kg
- Product Size: 49x22.5x8cm
- Packaging Size: 59.5x33x18cm

Mini Pearl 1024
Light Controller

- With Midi Socket, can make the library on the console
- 1024 DMX512 channels
- 96 Mating fixtures
- Support for fixtures re-connected with the address code
- Each scanner max available control channels: 40 main channel + 40 trim
- R20 pearl light library support
- 60 scenes can be saved, 10 scenes can be run simultaneously
- 600 steps in a multi-step scenario
- Fade in, Fade out, LTP sliding control
- 5 graphics can be stored for each scene
- 10 graphics can be run at the same time
- Supports fader scenes, dimming, interlock scene and point control scenarios
- Graphics generator, dimmer, P/T, RGB, CMY, Color, Gobo, Iris, Focus Graphics
- Master fader: Global, repeat, lighting
- Supports now black, dial and fader to adjust channel values and fader dimmer
- Supports FAT32format U disk read

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D.A.S.
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