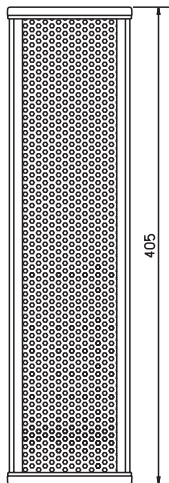
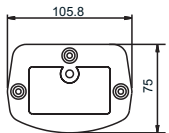


COLUMN SPEAKERS

CS-212 / CS-212WP

- Body in extruded aluminum, white color
- Metal front protection grille. Equipped with line transformer for 25V/70V/100V constant voltage systems
- Six-position rotary dial for adjusting the sound power
- 4 wide band speaker of 70mm diameter
- With plastic cone speaker only for weather-pfoof (for CS-212WP)

CS-212/212WP



CS-212 (IP44)
CS-212WP (IP44)

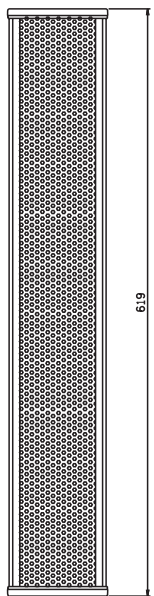
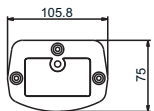
MODEL	CS-212(INDOOR)	CS-212WP(OUTDOOR)
Input power:	RMS 12W/MAX 24W	RMS 12W/MAX 24W
Output power:	1.5, 3, 6, 12W	1.5, 3, 6, 12W
Speaker:	4 wide band speakers of 70mm diameter (2.5" paper cone speaker)	4 wide band speakers of 70mm diameter (2.5" plastic cone speaker)
Input voltage:	25, 70, 100V	25, 70, 100V
Impedance:	100V- 6.6K Ω /3.3K Ω / 1.66K Ω /833 Ω 70V-3.26K Ω /1.63K Ω / 816 Ω /408 Ω 25V-416 Ω /208 Ω / 104 Ω /52 Ω	100V-6.6K Ω /3.3K / 1.66K Ω /833 Ω 70V-3.26K Ω /1.63K Ω / 816 Ω /408 Ω 25V-416 Ω /208 Ω / 104 Ω /52 Ω
Frequency response:	250Hz~20kHz (-10dB)	250Hz~20kHz(-10dB)
S.PL:	94dB (1W/M)	94dB (1W/M)
Material:	Aluminum	Aluminum

COLUMN SPEAKERS

CS-220 / CS-220WP

- Body in extruded aluminum, White color
- Metal front protection grille.
- Equipped with line transformer for 25V/ 70V/ 100V constant voltage systems
- Four-position rotary dial for adjusting the sound power
- With plastic cone speaker only for weather-proof (for CS-220WP)

CS-220/220WP



CS-220 (IP44)
CS-220WP (IP44)

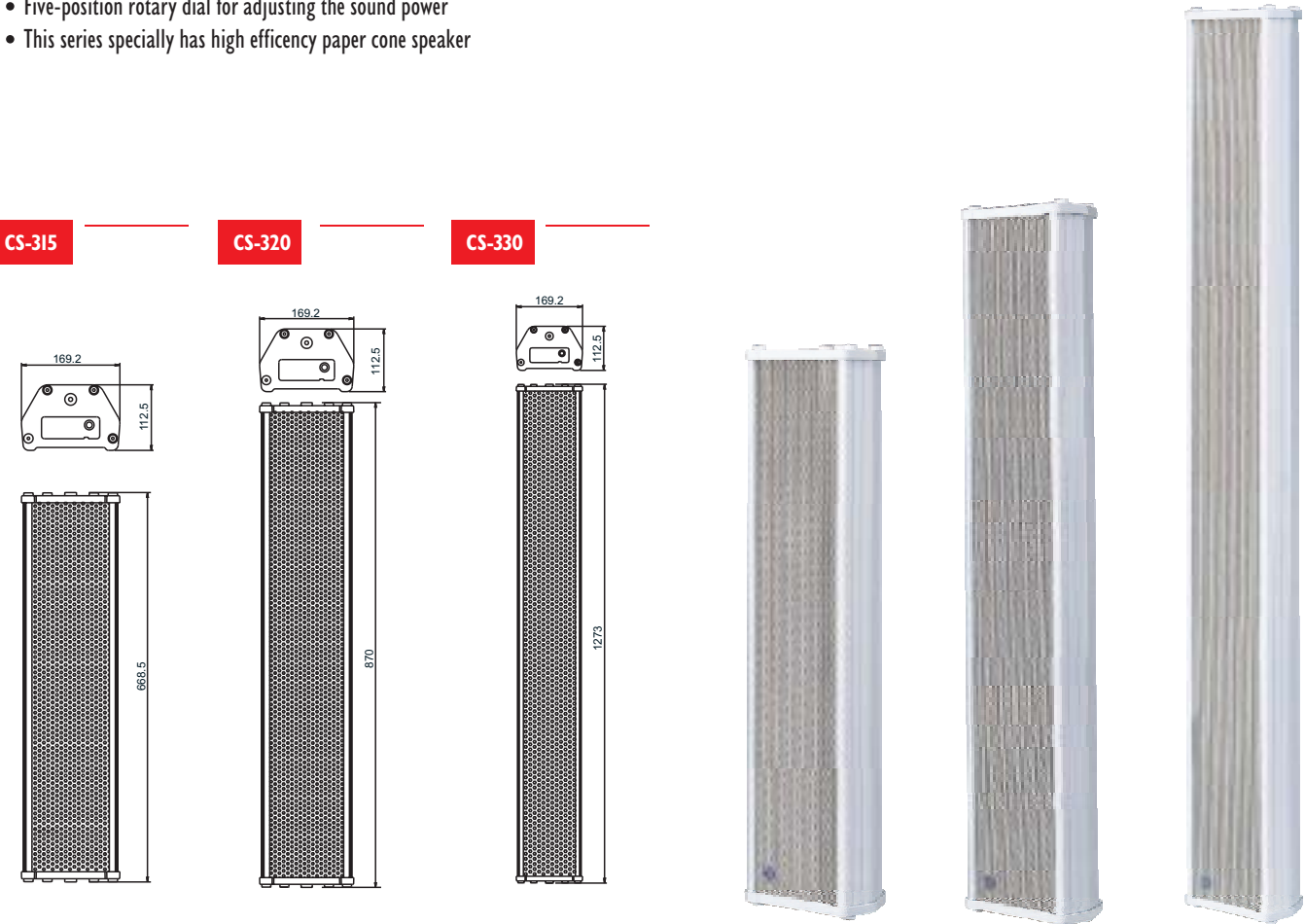
Unit: mm

MODEL	CS-220(INDOOR)	CS-220WP(OUTDOOR)
Input power:	RMS 20W/MAX 40W	RMS 20W/MAX 40W
Output power:	2.5, 5, 10, 20W	2.5, 5, 10, 20W
Speaker:	7 wide band speakers of 70mm diameter (2.5" paper cone speaker)	7 wide band speakers of 70mm diameter (2.5" plastic cone speaker)
Input voltage:	25, 70, 100V	25, 70, 100V
Impedance:	100V-4K Ω / 2K Ω / 1K Ω / 500 Ω 70V-2K Ω / 1K Ω / 500 Ω / 250 Ω 25V-250 Ω / 125 Ω / 62 Ω / 31 Ω	100V-4K Ω / 2K Ω / 1K Ω / 500 Ω 70V-2K Ω / 1K Ω / 500 Ω / 250 Ω 25V-250 Ω / 125 Ω / 62 Ω / 31 Ω
Frequency response:	250Hz~20kHz (-10dB)	250Hz~20kHz (-10dB)
S.PL:	94dB (1W/M)	94dB (1W/M)
Material:	Aluminum	Aluminum

COLUMN SPEAKERS

CS-315 / CS-320 / CS-330

- Body in white color extruded aluminum
- Metal front protection grille
- Two way system speakers equipped with line transformer for 25V/70V/100V constant voltage
- Five-position rotary dial for adjusting the sound power
- This series specially has high efficiency paper cone speaker



Unit: mm

CS-315
(IP44)

CS-320
(IP44)

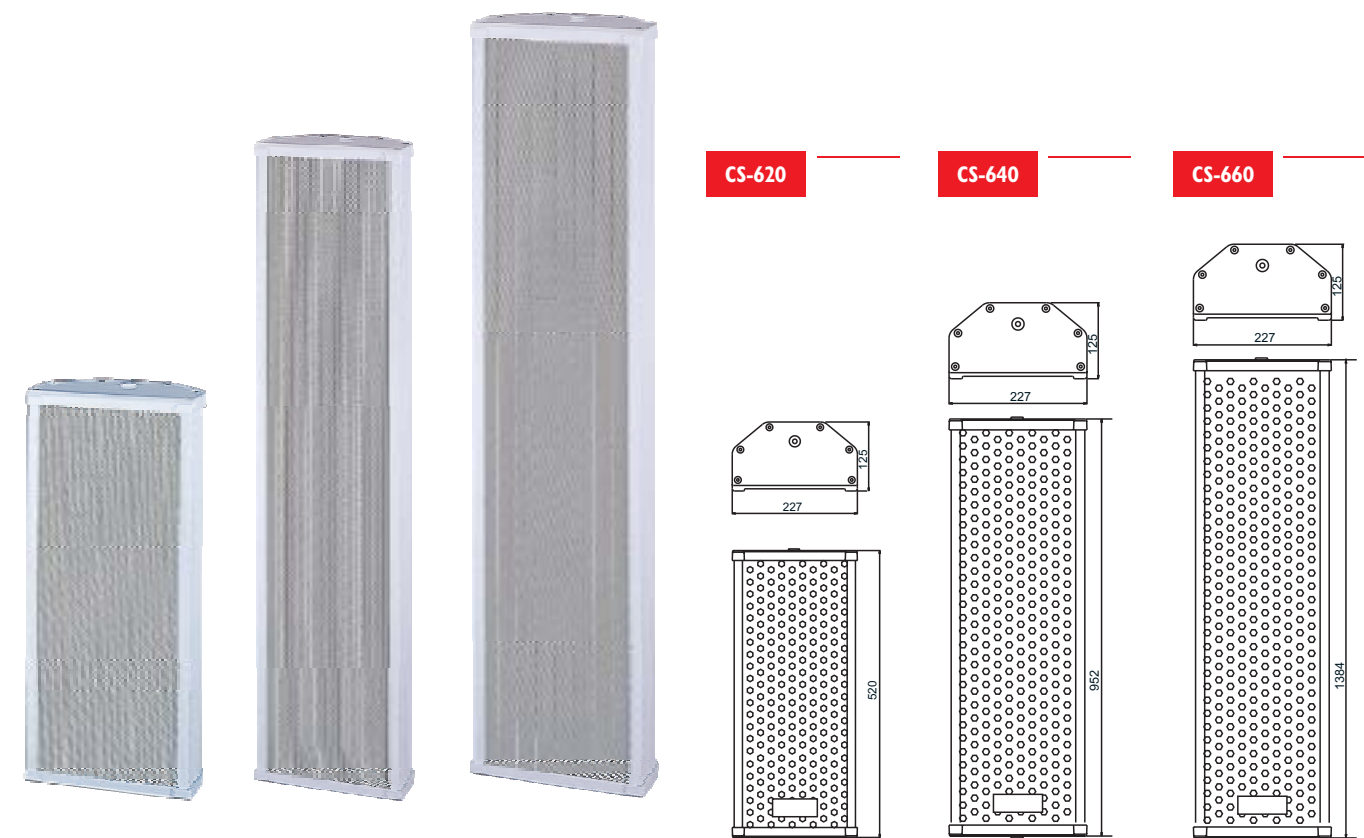
CS-330
(IP44)

MODEL	CS-315	CS-320	CS-330
Input power:	RMS 15W/MAX 30W	RMS 20W/MAX 40W	RMS 30W/MAX 60W
Output power:	1, 2, 3.75, 7.5, 15W	1.25, 2.5, 5, 10, 20W	2, 3.75, 7.5, 15, 30W
Speaker:	3 wide band speakers (5×7" oval) and 1 High efficiency paper cone speaker	4 wide band speakers (5×7" oval) and 2 High efficiency paper cone speakers	6 wide band speakers (5×7" oval) and 2 High efficiency paper cone speakers
Input voltage:	25, 70, 100V	25, 70, 100V	25, 70, 100V
Impedance:	100V-10K Ω /5K Ω /2.67K Ω / 1.33K Ω /670 Ω 70V-4.9K Ω /2.5K Ω / 1.3K Ω / 650 Ω /320 Ω 25V-625 Ω /312 Ω /166 Ω / 83.5 Ω /41.5 Ω	100V-8K Ω /4K Ω /2K Ω / 1K Ω /500 Ω 70V-3.9K Ω /2K Ω /1K Ω / 490 Ω /245 Ω 25V-500 Ω /250 Ω /125 Ω / 62.5 Ω /31.3 Ω	100V-5K Ω /2.67K Ω /1.33K Ω / 670 Ω /330 Ω 70V-2.45K Ω /1.3K Ω /645 Ω / 326 Ω /163 Ω 25V-312 Ω /166 Ω /83.5 Ω / 41.5 Ω /20.8 Ω
Frequency response:	180Hz~20kHz(-10dB)	160Hz~20kHz(-10dB)	150Hz~20kHz(-10dB)
S.P.L:	97dB (1W/M)	98dB (1W/M)	99dB (1W/M)
Material:	Aluminum	Aluminum	Aluminum

COLUMN SPEAKERS

CS-620 / CS-640 / CS-660

- Body in extruded aluminum, white color
- Metal front protection grille
- Equipped with line transformer for 50V/70V/100V constant voltage system
- 3-position selection for adjusting the sound power specifically developed for speech applications, indoor, these are popular for churches & other reverberant public buildings.



Unit: mm

CS-620
(IP44)

CS-640
(IP44)

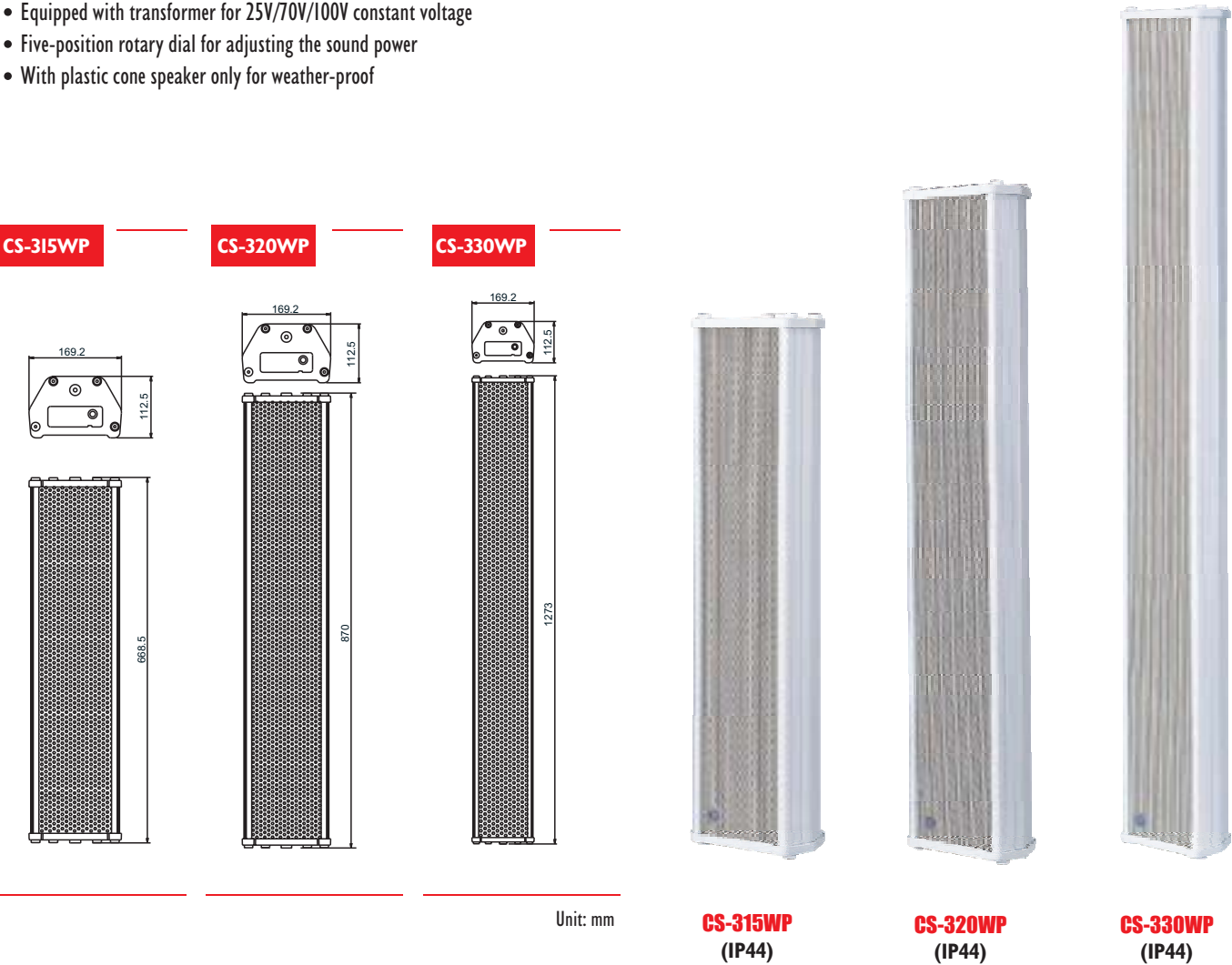
CS-660
(IP44)

MODEL	CS-620	CS-640	CS-660
Input power:	RMS 20W	RMS 40W	RMS 60W
Output power:	5, 10, 20W	10, 20, 40W	15, 30, 60W
Speaker:	2 wide band 6.5" paper cone speakers	4 wide band 6.5" paper cone speakers	6 wide band 6.5" paper cone speakers
Input voltage:	50, 70, 100V	50, 70, 100V	50, 70, 100V
Impedance:	100V-2K Ω / 1K Ω / 500 Ω 70V-1K Ω / 500 Ω / 245 Ω 50V-500 Ω / 245 Ω / 125 Ω	100V-1K Ω / 500 Ω / 250 Ω 70V-500 Ω / 250 Ω / 122.5 Ω 50V-250 Ω / 122.5 Ω / 62.5 Ω	100V-666 Ω / 333 Ω / 166.5 Ω 70V-333 Ω / 166.5 Ω / 81.5 Ω 50V-166.5 Ω / 81.5 Ω / 41.5 Ω
Frequency response:	125Hz~15kHz (-10dB)	125Hz~15kHz(-10dB)	125Hz~15kHz(-10dB)
S.P.L:	99dB (1W/M)	100dB (1W/M)	103dB (1W/M)
Material:	Aluminum	Aluminum	Aluminum

WEATHER-PROOF COLUMN SPEAKERS

CS-315WP / CS-320WP / CS-330WP

- Body in white color extruded aluminum
- Metal front protection grille
- Equipped with transformer for 25V/70V/100V constant voltage
- Five-position rotary dial for adjusting the sound power
- With plastic cone speaker only for weather-proof

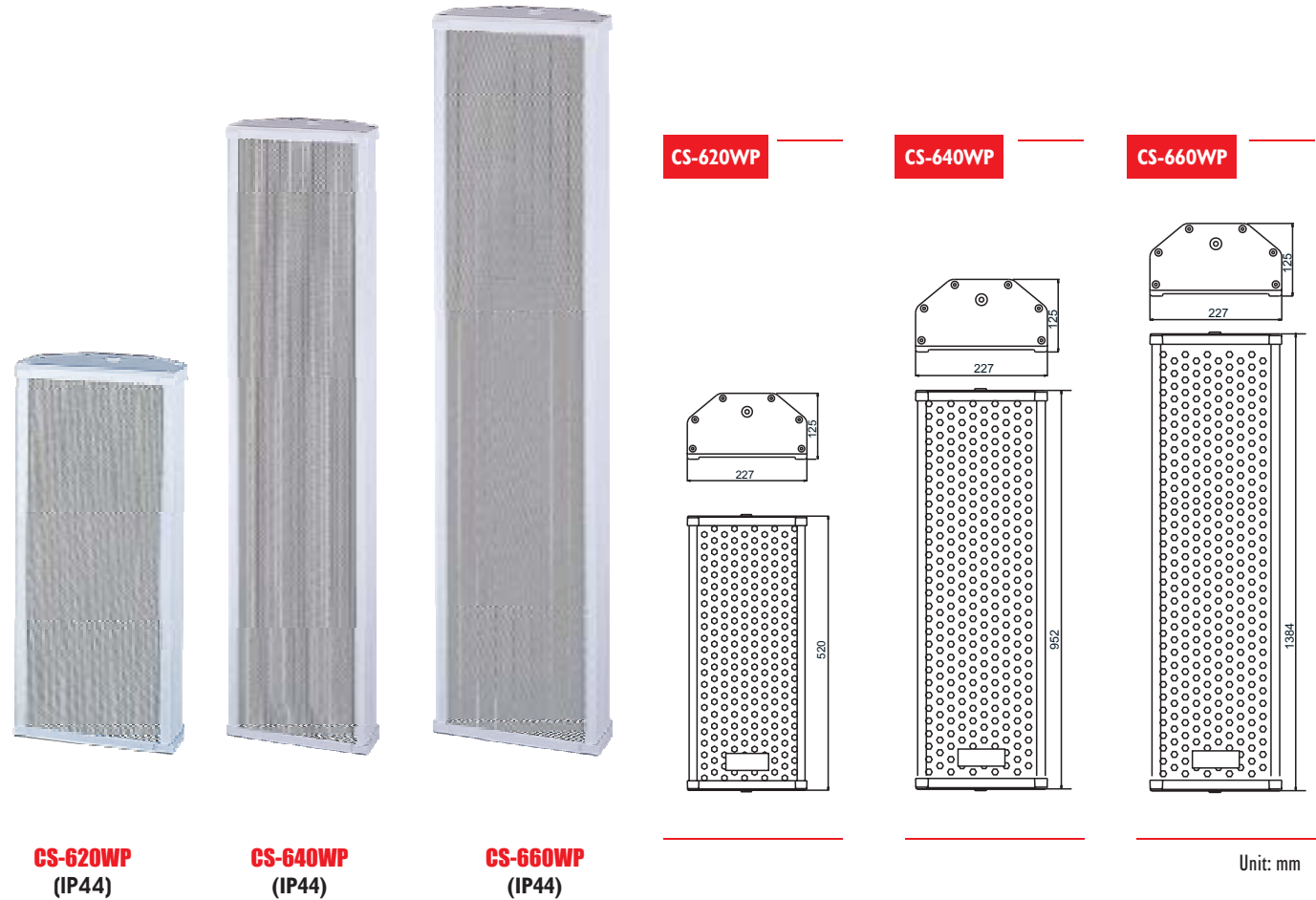


MODEL	CS-315WP	CS-320WP	CS-330WP
Input power:	RMS 15W/ MAX 30W	RMS 20W/ MAX 40W	RMS 30W/ MAX 60W
Output power:	1, 2, 3.75, 7.5, 15W	1.25, 2.5, 5, 10, 20W	2, 3.75, 7.5, 15, 30W
Speaker:	3 wide band speakers plastic cone speaker for weather-proof	4 wide band speakers plastic cone speaker for weather-proof	6 wide band speakers plastic cone speaker for weather-proof
Input voltage:	25, 70, 100V	25, 70, 100V	25, 70, 100V
Impedance:	100V-10K Ω /5K Ω /2.67K Ω / 1.33K Ω /670 Ω 70V-4.9K Ω /2.5K Ω / 1.3K Ω / 650 Ω /320 Ω 25V-625 Ω /312 Ω /166 Ω / 83.5 Ω /41.5 Ω	100V-8K Ω /4K Ω /2K Ω / 1K Ω /500 Ω 70V-3.9K Ω /2K Ω /1K Ω / 490 Ω /245 Ω 25V-500 Ω /250 Ω /125 Ω / 62.5 Ω /31.3 Ω	100V-5K Ω /2.67K Ω /1.33K Ω / 670 Ω /330 Ω 70V-2.45K Ω /1.3K Ω /645 Ω / 326 Ω /163 Ω 25V-312 Ω /166 Ω /83.5 Ω / 41.5 Ω /20.8 Ω
Frequency response:	180Hz~20kHz (-10dB)	160Hz~20kHz (-10dB)	150Hz~20kHz (-10dB)
S.P.L:	97dB (1W/M)	98dB (1W/M)	99dB (1W/M)
Material:	Aluminum	Aluminum	Aluminum

WEATHER-PROOF COLUMN SPEAKERS

CS-620WP / CS-640WP / CS-660WP

- Body in extruded aluminum, white color
- Metal front protection grille
- Equipped with line transformer for 50V/70V/100V constant voltage system
- 3-position selection for adjusting the sound power specifically developed for speech applications, indoor, these are popular for churches & other reverberant public buildings.
- With plastic cone speaker only for weather-proof



MODEL	CS-620WP	CS-640WP	CS-660WP
Input power:	RMS 20W	RMS 40W	RMS 60W
Output power:	5, 10, 20W	10, 20, 40W	15, 30, 60W
Speaker:	2 wide band 6.5" plastic cone speakers for weather-proof	4 wide band 6.5" plastic cone speakers for weather-proof	6 wide band 6.5" plastic cone speakers for weather-proof
Input voltage:	50, 70, 100V	50, 70, 100V	50, 70, 100V
Impedance:	100V-2K Ω / 1K Ω / 500 Ω 70V-1K Ω / 500 Ω / 245 Ω 50V-500 Ω / 245 Ω / 125 Ω	100V-1K Ω / 500 Ω / 250 Ω 70V-500 Ω / 250 Ω / 122.5 Ω 50V-250 Ω / 122.5 Ω / 62.5 Ω	100V-666 Ω / 333 Ω / 166.5 Ω 70V-333 Ω / 166.5 Ω / 81.5 Ω 50V-166.5 Ω / 81.5 Ω / 41.5 Ω
Frequency response:	125Hz~15kHz (-10dB)	125Hz~15kHz (-10dB)	125Hz~15kHz (-10dB)
S.P.L:	99dB (1W/M)	100dB (1W/M)	103dB (1W/M)
Material:	Aluminum	Aluminum	Aluminum

AUDIO PROCESSORS

- 78 SMX-281
- 79 PEQ-1131H / PEQ-1215H
- 80 PEQ-2231H
- 81 SFB-4010
- 82 SAD-152 / SAD-252
- 83 SCL-2020
- 84 SCX-203S / SCX-P234
- 85 PSA-31500
- 86 PSA-21500
- 87 RTA-15 / RTA31
- 88 DLM206
- 89 SM-62U
- 90 SM-82U
- 91 SM-122U
- 92 SM-204U
- 93 XM-6 / XM-6D
- 94 XM-8 / XM-8D
- 95 XM-12 / XM-12D / XM-12DA
- 96 XM-16 / XM-16D / XM-16DA
- 97 XM-20 / XM-20D / XM-20DA
- 98 XM-24 / XM-24D
- 99 XM-12D USB
- 100 DJM-412
- 101 DMB-8/700 USB

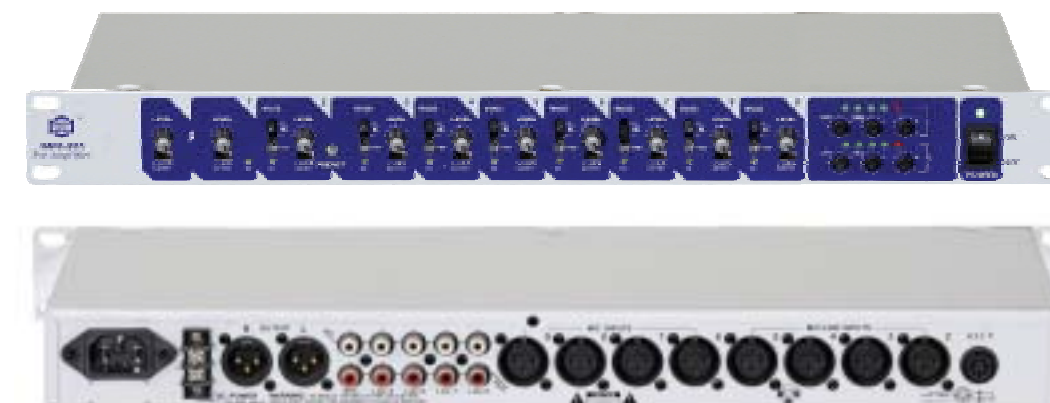


PRE-AMPLIFIERS

SMX-281

FEATURES

- Chime signal
 - 1. Automatic priority.
 - 2. Permissible external chime remote and P. T. T remote
- Master 1, 2 output
- Independent DIN jack for P. T. T remote (7 pin)
- Two band treble/bass control per output
- Signal indicator per.
- Permissible phantom MIC for all input.
- Automatic priority for MIC 2-3.
- Independent line input with RCA pin jack (line 7-9)
- Selective MIC input of H. P. F.
- Selective master output per input signal (L, L + R, R)
- Recording output.
- LED indicator for master-output.



SMX-281

MODEL	SMX-281
Power consumption:	10.5W
Power supply:	AC 115V/230V 50Hz/60Hz, DC 24V
Input sensitivity / impedance:	MIC: -50dBv (2.45mV)/5k Ω BAL ; Line: -10dBv (245mV)/5k Ω BAL ; Line: RCA in: -10dBv (245mV)/10k Ω UNBAL
Output level/ impedance:	Master 1, 2: +4dBv (1.23V)/200 Ω BAL ; REC: 550mV/10k Ω UNBAL
Frequency response:	Less than -1dB (20Hz~20kHz)
S/N ratio:	MIC: More than 60dB ; Line: More than 60dB
T.H.D:	MIC: More than 0.5% ; Line: More than 0.3%
Cross-talk:	MIC: More than 50dB ;Line: More than 50dB
Dimensions (W×D×H):	483 × 200 × 44 mm (19" × 7.9" × 1.7")
Weight (Approx.):	4.1kg (9.04 lbs)

EQUALIZERS

PEQ-1131H / PEQ-1215H

The PEQ-series graphic equalization is designed to provide exact equalization permanently. It is suitable for musicians, performers, studio engineers, and sound contractors. The PEQ-series can be used wherever modification of the frequency contour of a sound or sound system is needed. A graphic equalization offers a solution to many common sound problems. Also, creative experimentation on the part of the user can produce some nice results.



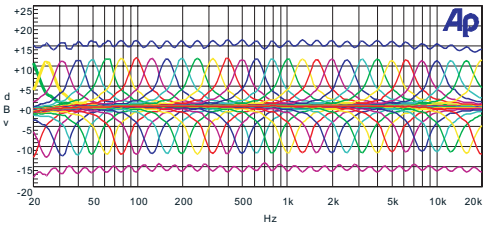
PEQ-1131H (W/ Hi-Low Pass)



PEQ-1215H (W/ Hi-Low Pass)

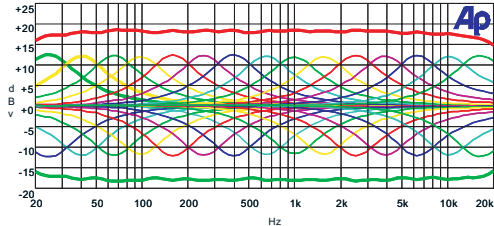
PEQ-1131H

03/24/01 11:13:36
N=-6dB OUT=0dB BAL.
RANGE=12dB



PEQ-1215H

03/24/01 08:56:18
IN=-6dB OUT=0dB BAL.
RANGE=12dB



MODEL	PEQ-1131H	PEQ-1215H
Type:	1×31, 1/3 octave, (1U size)	2×15, 2/3 octave, (1U size)
Slider type:	20mm with positive center	20mm with positive center
Power consumption:	15 W (MAX.)	15 W (MAX.)
Power supply:	AC 100V-120V, 60Hz ; AC 200V-240V, 50Hz	AC 100V-120V, 60Hz ; AC 200V-240V, 50Hz
Inputs and outputs:	XLR, 6.3 ϕ TRS and RCA jack	XLR, 6.3 ϕ TRS and RCA jack
Inputs impedance:	20k Ω (BAL.) 15k Ω (UNBAL.)	20k Ω (BAL.) 15k Ω (UNBAL.)
High pass filter:	40Hz (12dB/oct)	40Hz (12dB/oct)
Low pass filter:	16kHz (12dB/oct)	16kHz (12dB/oct)
Max. Input level:	+18dBv	+18dBV
Outputs impedance:	< 600 Ω	< 600 Ω
Max. Output level:	+16dBV	
T.H.D:	0.02% (at 1kHz, all slider at center)	0.02% (at 1kHz, all slider at center)
Frequency response:	20Hz to 50kHz, -3dB (all slider at center)	20Hz to 50kHz, -3dB (all slider at center)
S/N ratio:	93dB	93dB
Control range:	±6dB or 12dB selectable	±6dB or 12dB selectable
Dimensions (W × D × H):	483 × 220 × 44mm (19" × 8.7" × 1.7")	483 × 220 × 44mm (19" × 8.7" × 1.7")
Weight (Approx.):	2.9kg (6.39 lbs)	2.8kg (6.17 lbs)

EQUALIZERS

PEQ-2231H

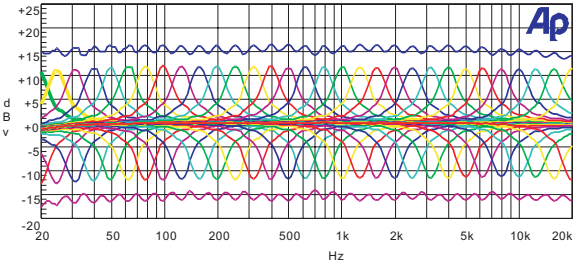
- FEATURES
- Control range 6dB/12dB selectable.
 - Signal bypass function.
 - With a switchable Hi-Low pass-filters.
 - Balanced XLR, TRS and RCA input and output connect.
 - Signal clip pilot
 - The ground "LIFT" switch is used to disconnect the signal ground from the chassis earth ground.
 - Line voltage selectable (AC 115V/230V).



PEQ-2231H (W/ Hi-Low Pass)

PEQ-2231H

03/24/01 11:13:36
IN=-6dB OUT=0dB BAL.
RANGE=12dB



MODEL	PEQ-2231H
Type:	2×31, 1/3 octave, (2U size)
Slider type:	20mm with positive center
Power consumption:	15 W (MAX.)
Power supply:	AC 100V-120V, 60Hz ; AC 200V-240V, 50Hz
Inputs and outputs:	XLR, 6.3 ϕ TRS and RCA jack
Inputs impedance:	20k Ω (BAL.) 15k Ω (UNBAL.)
High pass filter:	40Hz (12dB/oct)
Low pass filter:	16kHz (12dB/oct)
Max. Input level:	+18dBV
Outputs impedance:	< 600 Ω
Max. Output level:	+16dBV
T.H.D:	0.02% (at 1kHz, all slider at center)
Frequency response:	20Hz to 50kHz, -3dB (all slider at center)
S/N ratio:	93dB
Control range:	±6dB or 12dB selectable
Dimensions (W × D × H):	483 × 200 × 88.8mm (19" × 7.9" × 3.5")
Weight (Approx.):	5.2kg (11.46 lbs)

FEEDBACK SUPPRESSOR

SFB-4010

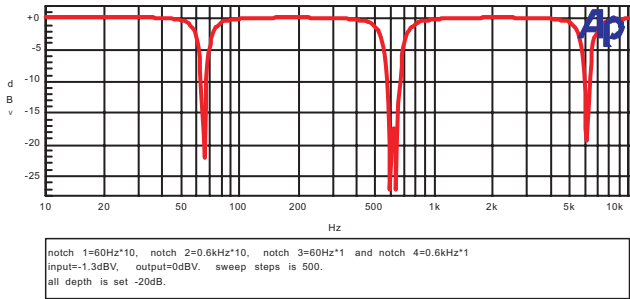
- FEATURES
- Electronic balanced circuit is adopted in order to reduce external hum pick up from signal line.
 - The bandwidth of the notch filter, eliminating.
 - The 4 stage notch filters. The interference factor for the quality of sound in audition.
 - Convenient function to adjust nominated frequency response by level indicator, when controlling depth on each filter.
 - Built-in 24V DC terminal for DC power use.
 - Bypass is in/ out switch of notch circuit.



SFB-4010

SFB-4010

NOTCH FILTER FREQUENCY RESPONSE



MODEL	SFB-4010
Power consumption:	10W
Input/impedance:	0dBv/15k Ω (BAL.)
Ouput/impedance:	0dBv/600 Ω (BAL.)
Frequency response:	20Hz to 50kHz (\pm 3dB)
S/N ratio:	> 70dB
T.H.D.:	0.1% at 1kHz
Notch depth:	0dB to -20dB
Notch filter frequency:	60Hz~6kHz(variance)
Dimensions (W \times D \times H):	483 \times 200 \times 44 mm (19" \times 7.9" \times 1.7")
Weight (Approx.):	3.0kg (6.61 lbs)

AUDIO DISTRIBUTORS AMPLIFIERS

SAD-152 / SAD-252

- FEATURES
- Balanced input**
High efficiency electronic balanced circuit is adopted in order to reduce external hum pick up from signal line.
- Input mode switch**
This model is able to distribute the sound signal input to output at 1:10 or 2:5 by mono and stereo selector switch.
- Level control and peak LED per channel**
Capable of adjusting each output volume and in case of excessive input LED lamp warns distortion status.
- Balanced output and minimize the DC hum**
Sound output is possible whether or of the output unit polarity is grounded and the direct current noise is minimized a 15V power source motivates the operation of circuit.
- Use of emergency battery (SAD-152 ONLY)**
You can operate this model by using emergency battery for unexpected AC power failure. (Built in DC 24V terminal)



SAD-152



SAD-252

MODEL	SAD-152	SAD-252
Power consumption:	6W	6W
Power supply:	AC 115V/ 230V 50Hz/ 60Hz, DC 24V	AC 115V/ 230V 50Hz/ 60Hz
Input sensitivity/impedance:	0.775V (0dBm) / 15k Ω ; XLR Jack Balanced	0.775V (0dBm) / 15k Ω ; XLR Jack Balanced
Output level / impedance:	0.775V (0dBm) / 60k Ω ; XLR Jack Balanced	0.775V (0dBm) / 60k Ω ; XLR Jack Balanced
Frequency response:	Less than -0.5dB (20Hz~20kHz)	Less than -0.5dB (20Hz~20kHz)
S/N ratio:	More than 92dB	More than 92dB
T.H.D:	More than 0.05% (20Hz~20kHz)	More than 0.05% (20Hz~20kHz)
Cross-talk:	More than 75dB	More than 75dB
Dimensions (W \times D \times H):	483 \times 235 \times 44mm (19" \times 9.3" \times 1.7")	483 \times 200 \times 44mm (19" \times 7.9" \times 1.7")
Weight (Approx.):	3.0kg (6.61 lbs)	3.0kg (6.61 lbs)

COMPRESSOR / EXPANDER / LIMITER

SCL-2020

Compressor/ Expander/ Limiter

1U, 2 channel compressor/expander unit with gate function.
Peak limiter to protect from clipping.

Frequency response: 20-20kHz.

T.H.D: Less than 0.05%.

S/N ratio: More than 94dB.

Inputs/outputs/key in & key out via jack connector.

Compressor/expander

Threshold: 40dBu to +20dBu.

Compression ratio: 1:1 — α : 1.

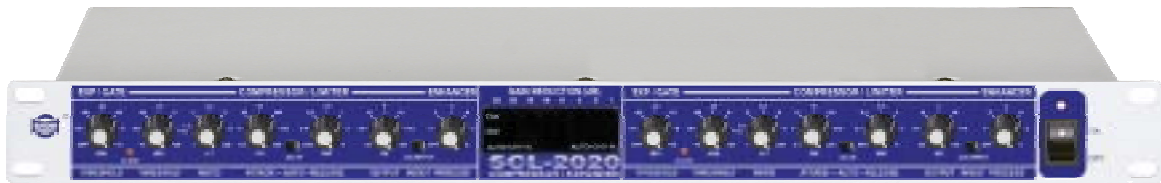
Attack time: 0.1-200 msec.

Release time: 50 msec - 4 sec

Gate (Downward expander)/Peak Limiter

Gate threshold: α to -10dBu.

Peak limiter threshold: 10dB above to compressor threshold level.



SCL-2020

MODEL	SCL-2020
Audio input:	Type: 1/4" jack ; Impedance: 60 k Ω balanced ; Nominal Operating Level: +4 dBu/-10 dBu ; Max. Input level: +21 dBu balanced and unbalanced ; CMR @ 1KHz: +40dB
Audio output:	Type: 1/4" jack ; Impedance: > 40 k Ω balanced ; Max. Output level: +21dBu ; Bandwidth: 20Hz to 20kHz. +0, -1dB T.H.D @ +4dBu: 0.05% typ. ; T.H.D @ +20dBu: 0.1% typ. ; IMD (SMPTE) @ +10dBu: 0.01% typ. Noise & Hum, unity gain: < -93dBu ; Noise & Hum, fully off: < -97dBu ;
Compressor section:	Type: Interactive compressor ; Threshold: Variable from -40dB to +20dB ; Ratio: Variable from 1:1 to LIM ; Attack: Variable from 0.1 to 200ms/20dB ; Release: Variable from 0.05ms to 4 s/20dB ; Output level: From -20 to +20dB
Gate section:	Type: Interactive Expander / Gate ; Impedance: Variable from off to +15dB
Dynamic enhancer section:	Type: Dynamically controlled frequency correction ; Process: Variable from off to 6 ; CMR @ 1KHz: < 60dB
Function switches:	IN / OUT: Bypass switch ; Auto: Programme-dependent attack and release time
Indicators:	CLOSE LED for the Expander/ Gate ; 8 element Gain Reduction meter ; Led indicator for AUTO function ; and COMPRESSOR status
Power supply:	See the label on the apparatus
Physical:	Dimensions (W x D x H): 483 x 200 x 44mm (19" x 7.9" x 1.7") Weight (Approx.): 3.0kg (6.61 lbs) Crosstalk @ 20kHz: < -85dBu

ACTIVE CROSSOVERS

SCX-203S



SCX-203S
(3-way stereo + subwoofer)

SCX SERIES CROSSOVER

Offering a variety of options for any live sound reinforcement amplifier configuration, the SCX series makes state-of-the-art crossover technology affordable.

FEATURES

Crossovers provide precise frequency dividing for multi-amplified speaker applications, and are valuable tools in many professional live sound applications.

- Single rack space (1U)
- Shielded internal power supply with AC voltage select switch (\sim 115V/60Hz or \sim 230V/50Hz)
- Phase inversion switches
- Low-cut subsonic filters for low frequency driver protection
- Servo-balanced XLR inputs/outputs
- State-variable Linkwitz Riley 24dB/octave filters
- Switchable constant directivity horn equalization circuit for use with horns requiring a high frequency boost
- Allows low summing of all or any of the low outputs
- Peak LED indicators
- Mute switches
- Designed for the most precise accurate control
- Top audio performance with high slew rate circuitry and over 115dB dynamic range for clear transparent sound

SCX-P234



SCX-P234
(2-way/3-way stereo, 4-way mono)

FEATURES

- Unit with only a standard rack.
- Easily operated servo-balanced XLR input and output connectors.
- Linkwitz/riley 24dB/octave filters present the popular performance.
- Phase inversion switches offer a way for maintaining the just right phase.
- Each mute switch does the real role to mute the relative channel signal.
- Limiters run for better sound tune.
- 25Hz subsonic filter can be switched.
- LF sum output connectors for the low band signal.
- Constant directivity CD horn equalization.
- Power selector with \sim 115V/60Hz or \sim 230V/50Hz.

STEREO POWER AMPLIFIERS

PSA-31500

These rugged fan-cooled, 2-channel, 2-RU amps provide high-Value performance and power in a strong, compact chassis. The series comprise five models: the PSA-31500.

FEATURES

- Independent, user-defeatable clip limiters. Fully selectable low-frequency filtering; choice of 30Hz.
- Stereo (dual-channel), parallel-input, or bridged mono operating modes.
- Balanced XLR inputs, 1/4" (6.3mm) TRS, and output barrier strip 3-speakon.
- Front panel LED indicators for signal and clip.



PSA-31500

MODEL	PSA-31500
Stereo mode:	8 Ω , 0.05% THD, 575W × 2 ; 4 Ω , 0.05% THD, 750W × 2 ; 2 Ω , 0.05% THD, 1400W × 2
Bridge mono mode:	8 Ω , 0.05% THD, 1500W ; 4 Ω , 0.05% THD, 2500W
Total harmonic distortion:	< 0.05% 20Hz-20kHz
Frequency response:	20Hz-20kHz, +0/-1dB at 10dB below rated output power -3dB points: ; 5Hz and 50kHz
Dynamic headroom:	2dB@ 4 Ω
Distortion:	IMD (SMPTE) < 0.015%
Noise (below rated output):	100dB
Cross-talk:	More than 75dB
Voltage gain:	32dB
Input impedance:	20k Ω Balanced ; 10k Ω Unbalanced
Connectors:	Input: Active balanced ; XLR and 1/4" (6.3mm)TRS ; Output: 3-speakon
Cooling:	Continuously variable speed fan, back to front air flow.
Power supply:	AC: 110-120V, 60Hz ; AC: 220-240V, 50Hz
Dimensions (W × D × H):	483 × 400 × 89mm (2 rack space) (19" × 15.7" × 3.5") (rack mounting to rear support ears)
Weight (Approx.):	19kg (41.89 lbs)

STEREO POWER AMPLIFIERS

PSA-21500

This new line stereo power amplifier is designed for the Public Address systems with the high power outputs. With its best performance of the 105dB S/N ratio and over 400 damping factor, etc, the audio signal can be reproduced lively and accurately.

FEATURES

- Compact construction for long term operation
- Sophisticated protection circuit
- LED indicates the operating status
- Speakon and binding-posts outputs
- 2U size for rack mounting
- Balanced XLR 1/4" (6.3mm) TRS inputs



PSA-21500

MODEL	PSA-21500
Stereo mode:	8 Ω , < 1% THD, 750W × 2 ; 4 Ω , < 1% THD, 1125W × 2 ;
Bridge mono mode:	8 Ω , < 1% THD, 2250W
Total harmonic distortion:	< 0.05% 20Hz-20kHz
Power consumption:	2250W
Frequency response:	20Hz-20kHz, +0/-0.5dB, at 1W power output
Sensitivity:	1.1 Vms for rated power
S/N ratio (A-wtg.):	100dB
Slew rate:	> 40V/us
Damping factor:	> 400
Voltage gain:	38dB
Cross-talk:	> 80dB
Input connectors:	XLR connector and 1/4" TRS jack
Input impedance:	20K Ω balanced input, 10K Ω unbalanced input
Output connectors:	Speakon socket and binding posts
Gain controls:	2×41 detent potentiometers
Cooling system:	Aluminum heatsink and two fans with variable speed
Protection:	Temperature, DC voltage, Short circuit and Power on/off
Power supply:	Available for 120 or 220-240VAC 50/60Hz
Dimensions (W × D × H):	483 × 460 × 88mm rack mountable, 2U (19" × 18.1" × 3.5")
Weight (Approx.):	24.0kg (52.91 lbs)

GRAPHIC EQ WITH REAL TIME ANALYZER

RTA15 / RTA31



RTA15/ RTA31 with Line in, Mic. in , white & pink noise generator, 15/31 band EQ with real time analyzer, high-pass/ low pass filter, delay, volume control and bypass functions. It provides precise audio signal control to fixed sound installation, live performance and studio applications.

- Frequency Response: 20Hz~20kHz(±0.5dB)
- Dynamic range: > 115dBu
- Input section: Digital AES/EUB (RTA31 only)
- Type: balanced XLR and 1/4" unbalanced
- Impedance: 1MΩ / Stereo; 500kΩ / Mono
- Digital processing: 24-bit sigma-delta converters
- 7 segment for parameters setting and function select
- 3 x 7 LED array for 31-band EQ and L&R level display
- USB user interface for PC software control



RTA 31

MODEL	RTA15 / RTA31
Frequency Response:	20Hz~20kHz, ±0.5dB
Dynamic Range:	>115dBu
Distortion (THD.):	<0.01% at 1kHz (-10dBv)
Channel Separation:	100dB, 20Hz~20kHz
Input Section:	Digital: AES / EBU (RTA31 only)
Type:	Balanced XLR and 1/4" unbalanced
Sensitivity:	-20dBu
Max. Input level:	+20dBu
Impedance:	1MΩ / Stereo ; 500kΩ / Mono
Output Section:	Digital: AES / EBU (RTA31 only)
Type:	Balanced XLR and 1/4" unbalanced
Max. Output level (bypass):	+20dBu
Impedance:	<500Ω
Digital Processing	24-bit sigma-delta converters 48kHz Sampling Rates
Bypass:	Relay controlled Hard-bypass when Power OFF Bypass EQ, Volume and Delay when select function
Display:	7-segment for parameters setting and function select 3 x 7 LED array for 31-band EQ and L&R Level Display
Control:	9 buttons for different DSP functions selection 3ns for RTA and L/R channel setting USB user interface for PC software control
Power Supply:	AC 110~240V, 50 / 60 Hz ; AC 220~240V, 50 / 60Hz
Dimensions (W × D × H):	483 × 210 × 40mm (19" × 8.3" × 1.6")
Weight (Approx.):	2.2kg (4.85 lbs)

DIGITAL SIGNAL PROCESSOR FOR SPEAKER MANAGEMENT

DLM206



DLM206 is 2 In/ 6 Out digital signal processor for speaker management. There are input gain, 8 bands parametric equalizer and delay functions for input section. For output sections, it has input selection, 5 band parametric equalizer, crossover, delay, gain, limiter and mute functions. It has uer-friendly design at the front panel and it can be operated easily from connecting with computer.

- Frequency Response: 20Hz~20kHz(+ -0.5dB)
- Dynamic range: > 115dBu
- Input section: Digital AES/EUB
- Type: balanced XLR, xdnxigi igy: -20dBu
- Impedance: 1MΩ / Stereo; 500kΩ / Mono
- Output section: six channel.
- Digital processing: 24-bit sigma-delta converters
- 9 buttons for different DSP functions selection
- 4/6 buttons for different DSP functions selection
- USB user interface for PC software control



DLM 206

MODEL	DM206
Frequency Response:	20Hz~20kHz, ±0.5dB
S/N Ratio:	>115dBu
Distortion (THD.):	<0.01% at 1kHz (-10dBv)
Cross-talk:	<100dB below full scale
Input Section:	Digital: AES / EBU
Type:	Balanced XLR
Sensitivity:	-20dBu
Max. Input level:	+20dBu
Impedance:	1MΩ / Stereo ; 500kΩ / Mono
Output Section:	Six Channels
Type:	Balanced XLR
Max. Output level (bypass):	+20dBu
Impedance:	<500Ω
Digital Processing	24-bit sigma-delta converters 48kHz Sampling Rates
Bypass:	Bypass all the DSP function
Display:	16 x 2 LED Display for parameters setting and function select ; 7 x 8 LED for Input and Output Level Display
Control:	9 buttons for different DSP functions selection ; 4/6 buttons for different DSP functions selection USB user interface for PC software control
Power Supply:	AC 110~240V, 50 / 60 Hz ; AC 220~240V, 50 / 60Hz
Dimensions (W × D × H):	483 × 210 × 40mm (19" × 8.3" × 1.6")
Weight (Approx.):	DLM204: 2.3kg (5.06 lbs); dlm206: 2.5kg (5.5 lbs)

COMPACT MIXERS

SM-Series

There are total 6-Channel inputs for SM-62U mixing console: 2 mono MIC inputs, and 2 stereo line inputs. With USB interface+ DSP Preset function.

SM-62U

- 2 MIC inputs, 2 stereo inputs, 1 AUX stereo inputs, 1 RCA 2-track input and 1 RCA 2-track output.
- Mono channels: Low-distortion MIC pre-amp with high dynamic range / Balanced XLR and TRS inputs / 3-Band EQ on each channel / +48V phantom power for dynamic mic. input.
- STEREO channels: Low-distortion MIC pre-amp with high dynamic range / Balanced TRS inputs / 3-band EQ on each channel / +48V phantom power for dynamic mic. input.
- 1 AUX sends.
- Built-in 16 different digital effects sending signal to AUX sends or main mix bus.
- 1 AUX stereo inputs for aux returns.
- 4 segment signal level meters, use PHONES / C. ROOM LEVEL to change PHONES / CTRL-ROOM output signal.
- With USB INTERFACE you can record and playback.



SM-62U



MODEL		SM-62U	
Mono input channels:		Main mix section:	
Microphone input:	Electronically balanced, XLR-F	Max. output:	+22dBu un-balanced 1/4" jacks
Frequency response:	10Hz to 55kHz, ± 3 dB	AUX adjust range:	Off to +10dB
Distortion (THD+N):	<0.01% at +0dB, 22Hz~22kHz	Hum & Noise:	<-90dB @ 20Hz~22kHz, 1channel & MAIN level: 0dB, the other: minimum
Gain range:	0dB to -50dB	Channel Crosstalk:	<-80dB @ 0dB 20Hz~22kHz, MAIN level: 0dB, the other: minimum
Phantom power:	+48V with switch control		
Stereo input channels:		DSP section:	
Gain range:	0dB to -40dB	A/D and D/A converters:	24bit
Max. input:	+22dB	Type of effects:	HALL, ROOM, VOCAL, PLATE, STEREO DELAY, REV+DELAY, REV+CHORUS
SNR:	>90dB	Controls:	16 preset selector; Mute switch & Foot-switching & CLIP LED
Impedances:	line input: Electronically balanced JACK	USB INTERFACe:	
Sensitivity range:	+20dB to -20dB	Version:	Fully compliant with USB1.1
Microphone input:	1.5K Ω	Sampling rate:	8kHz, 16kHz, 32kHz, 11.023kHz, 22.05kHz, 44.1kHz and 48kHz
All other input:	10K Ω or greater / Tape out: 1K Ω	Dimensions (W x D x H):	213 x 265 x 70mm (8.4" x 10.4" x 2.8")
All other out:	120 Ω	Weight (Approx.):	2.4 kg (5.3 lbs)

COMPACT MIXERS

SM-Series

There are total 8-Channel inputs for SM-82U mixing console: 4 mono MIC inputs, and 2 stereo line inputs. With USB interface + DSP Preset function.

SM-82U

- 4 MIC inputs, 2 stereo inputs, 2 AUX stereo inputs, 1 RCA 2-track input and 1 RCA 2-track output.
 - Mono channels: Low-distortion MIC pre-amp with high dynamic range / Balanced XLR and TRS inputs, low cut filters 75Hz 18dB / oct on each channel / 3-Band EQ on each channel / +48V phantom power for dynamic mic. input.
 - STEREO channels: Balanced TRS inputs / 3-band EQ on each channel.
 - SOLO, PFL switches, PEAK LED and high-quality 45mm fader on each channel.
 - 2 AUX sends: AUX1 are configured as switchable PRE / POST, AUX2 / DFX for internal DSP & discrete output.
 - Built-in 256 different digital effects sending signal to AUX sends or main mix bus.
 - 2 AUX stereo inputs for aux returns.
 - 12 segment signal level meters, use PHONES / C. ROOM LEVEL to change PHONES / CTRL-ROOM output signal.
 - With USB INTERFACE you can record and playback.
- 

**SM-82U**

MODEL		SM-82U	
Mono input channels:		Main mix section:	
Microphone input:	Electronically balanced, XLR-F	Max. output:	+22dBu un-balanced 1/4" jacks
Frequency response:	10Hz to 55kHz, ± 3 dB	AUX adjust range:	Off to +10dB
Distortion (THD + N):	<0.01% at +0dB, 22Hz~22kHz	Hum & Noise:	<-90dB @ 20Hz~22kHz, 1channel & MAIN level: 0dB, the other: minimum
Gain range:	0dB to -50dB	Channel Crosstalk	<-80dB @ 0dB 20Hz~22kHz, MAIN level: 0dB, the other: minimum
Phantom power:	+48V with switch control	DSP section:	
Stereo input channels:		A/D and D/A converters: 24bit	
Mic. Gain range:	0dB to -40dB	Type of effects: HALL, ROOM, VOCAL, PLATE, PLATE REVERBS, REVERBS, MONO & STEREO DELAY, CHORUS, FLANGER, VIBRATO, REV + DELAY, REV + CHORUS, REV + FLANGER, REV + VIBRATO	
Max. input:	+22dB	Controls: 16 preset selector; Mute switch & Foot-switching & CLIP LED	
SNR:	>90dB	USB INTERFACE:	
Impedances:	line input: Electronically balanced JACK	Version: Fully compliant with USB1.1	
Line Sensitivity range:	+20dB to -20dB	Sampling rate: 8kHz, 16kHz, 32kHz, 11.023kHz, 22.05kHz, 44.1kHz and 48kHz	
Microphone input:	1.5K Ω	Dimensions (W x D x H): 250 x 312 x 73mm (9.8" x 12.3" x 2.9")	
All other input:	10K Ω or greater / Tape out: 1K Ω	Weight: 2.7 kg (6 lbs)	
All other out:	120 Ω		

MIXING CONSOLE

SM-Series

There are total 12-Channel inputs for SM-122U mixing console: 12 mono MIC inputs, and 2 stereo line inputs.
With USB interface + DSP Preset function.

SM-122U

- 12 MIC inputs, 2 stereo inputs, 3 AUX stereo inputs, 1 RCA 2-track input and 1 RCA 2 -track output.
- Mono channels: Low-distortion MIC pre-amp with high dynamic range / Balanced XLR and TRS inputs / 3-Band EQ on each channel / +48V phantom power for dynamic mic. input.
- STEREO channels: Balanced TRS inputs / +4/-10dB signal level controls / 4-band EQ on each channel.
- 8 CHANNEL INSERT and MAIN MIX INSERT.
- ALT 3/4 OUTPUTS and LEVEL control.
- ALT 3/4, PFL switches, PEAK LED and high-quality 60mm fader on each channel.
- 3 AUX sends: AUX1/2 are configured as switchable PRE / POST, AUX3 / DFX for internal DSP & discrete output.
- Built-in 256 different digital effects sending signal to AUX sends or main mix bus.
- 3 AUX stereo inputs for aux returns.
- 12 segment signal level meters, use C. ROOM SOURCE to change PHONES / CTRL-ROOM output signal.
- With USB INTERFACE you can record and playback.



SM-122U

MODEL		SM-122U	
Mono input channels		Main mix section	
Microphone input		Max. output	
Frequency response		AUX adjust range	
Distortion (THD+N)		Hum & Noise	
Gain range		Channel Crosstalk	
Phantom power		Fader range:	
Stereo input channels		DSP section	
Gain range		A/D and D/A converters	
Max. input		Type of effects	
SNR		Controls	
Impedances		USB INTERFACACE	
Sensitivity range		Version	
Microphone input		Sampling rate	
All other input		Dimensions (W x D x H)	
All other out		Weight (Approx.)	
Tape out:			

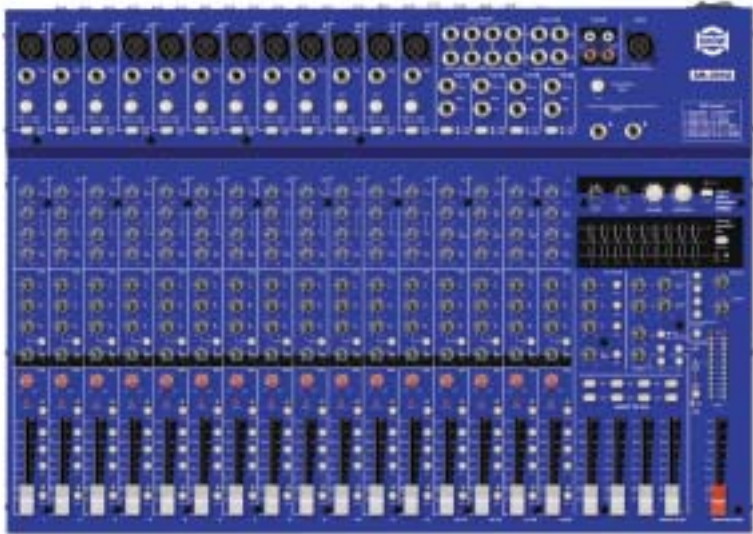
MIXING CONSONE

SM-Series

There are total 20-Channel inputs for SM-204U mixing console: 12 mono MIC inputs, and 4 stereo line inputs.
With USB interface + DSP Preset function.

SM-204U

- 12 MIC inputs, 4 stereo inputs, 4 AUX stereo inputs, 1 RCA 2-track input and 1 RCA 2 -track output.
- Mono channels: Low-distortion MIC pre-amp with high dynamic range / Balanced XLR and TRS inputs, low cut filters 75Hz 18dB / oct on each channel / 3-Band EQ on each channel / +48V phantom power for dynamic mic. input.
- STEREO channels: Balanced TRS inputs / +4/-10dB signal level controls / 4-band EQ on each channel.
- 12CHANNEL INSERT and MAIN MIX INSERT.
- 4 SUBGROUP OUTPUS and LEVEL control.
- 1MONO OUTPUTS and LEVEL control.
- MUTE, MIX, SUB switches, PEAK LED and high-quality 60mm fader on each channel.
- 4 AUX sends: AUX1/2 are configured as PRE, AUX3 is configured as switchable PRE / POST, AUX4 / DFX for internal DSP & discrete output.
- Built-in 256 different digital effects sending signal to AUX sends or main mix bus.
- 4 AUX stereo inputs for aux returns.
- 9-band EQ with ± 15dB level.
- 12 segment signal level meters, use C. ROOM PHONES to and PHONES to change CTRL-ROOM / PHONES output signal.
- With USB INTERFACE you can record and playback.



SM-204U

MODEL		SM-204U	
Mono input channels		Main mix section	
Microphone input		Max. output	
Frequency response		AUX adjust range	
Distortion (THD+N)		Hum & Noise	
Gain range		Channel Crosstalk	
Phantom power		Stereo graphic EQ	
Stereo input channels		DSP section	
Gain range		A/D and D/A converters	
Max. input		Type of effects	
SNR		Controls	
Impedances		USB INTERFACACE	
Sensitivity range		Version	
Microphone input		Sampling rate	
All other input		Dimensions (W x D x H)	
All other out		Weight (Approx.)	
Tape out:			

MIXERS

XM-6 Series

XM-6 / XM-6D

There are total 6-Channel inputs for the XM-6/XM-6D mixing console: 2 mono MIC inputs, and 2 stereo Line Inputs.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



XM-6D

MODEL	XM-6/6D
Common features:	<ul style="list-style-type: none">• Extremely high headroom offering enough dynamic range• Extra low distortion pre-amp section• Better performance with excellent noise figures• High quality potentiometers/faders with smooth feel• Robust construction for long time operation
Main section:	<ul style="list-style-type: none">• 2-Track inputs, assignable to Main Mix bus or Control Room/Headphone output• 1 stereo AUX Returns can be used as the additional line inputs• 8-segment LED ladder for output level display• Main Mix source matrix: 2-Track• Control Room source matrix: Main Mix, and 2-Track• Balanced TRS outputs• Built-in DSP module, with 100 presets (only XM-6D)
Each mono channel:	<ul style="list-style-type: none">• Gold plated XLR connector and 1/4" Jack are both provided for the Mic signal inputs• Up to 40dB range Trim control• 3 band EQ with the sophisticated center frequency• 1 AUX send buses for external effects or monitoring• Peak LEDs on each channel
Each stereo channel:	<ul style="list-style-type: none">• Only Left input for mono application• 3 band EQ with the sophisticated center frequency• 1 AUX send buses for external effects or monitoring• Peak LEDs on each channel
Physical:	<ul style="list-style-type: none">• Dimensions (W × D × H): 178 × 295 × 70mm (7" × 11.6" × 2.8")• Weight: 2.0kg (4.4l lbs)

MIXERS

XM-8 Series

XM-8 / XM-8D

There are total 8-Channel inputs for the XM-8/XM-8D mixing console: 4 mono MIC inputs, and 2 stereo Line Inputs.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



XM-8D

MODEL	XM-8/8D
Common features:	<ul style="list-style-type: none">• Extremely high headroom offering enough dynamic range• Extra low distortion pre-amp section• Better performance with excellent noise figures• High quality potentiometers/faders with smooth feel• Robust construction for long time operation
Main section:	<ul style="list-style-type: none">• 2-Track inputs, assignable to Main Mix bus or Control Room/Headphone output• 2 stereo AUX Returns can be used as the additional line inputs• 12-segment LED ladder for output level display• Main Mix source matrix: 2-Track• Control Room source matrix: Main Mix, and 2-Track• Balanced XLR outputs and un-balanced TRS outputs• Built-in DSP module, with 100 presets (only XM-8D)• Foot switch for the remote control of the effect
Each mono channel:	<ul style="list-style-type: none">• Gold plated XLR connector and 1/4" Jack are both provided for the Mic signal inputs• Up to 40dB range Trim control• Low Cut switch at 75Hz, with 18dB/Oct slope• Insert facility for extra signal processing• 3 band EQ with the sophisticated center frequency• 2 AUX send buses for external effects or monitoring• AUX2 can be switched between post-fader and pre-fader• Peak LEDs on each channel
Each stereo channel:	<ul style="list-style-type: none">• Only Left input for mono application• 3 band EQ with the sophisticated center frequency• 2 AUX send buses for external effects or monitoring• Peak LEDs on each channel
Physical:	<ul style="list-style-type: none">• Dimensions (W×D×H): 275×353×80mm (10.8"×13.9"×3.2")• Weight: 3.4kg (7.50 lb)

MIXER / SWITCHING POWER MIXER

XM-12 Series

XM-12 / XM-12D / XM-12DA

There are total 12-Channel inputs for the XM-12/XM-12D/XM-12DA mixing console: 4 mono MIC inputs, and 4 stereo Line Inputs.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



XM-12DA

MODEL	XM-12/12D/12DA	
Common features:	<ul style="list-style-type: none">• Extremely high headroom offering enough dynamic range• Extra low distortion pre-amp section• Better performance with excellent noise figures• High quality potentiometers/faders with smooth feel	
Main section:	<ul style="list-style-type: none">• Robust construction for long time operation• 2-Track inputs, with its independent level control, assignable to Main Mix bus or Control Room/Headphone output• 2 stereo AUX Returns can be used as the additional line inputs• 12-segment LED ladder for output level display• Main Mix source matrix: ALT3-4, and 2-Track• Control Room source matrix: Main Mix, ALT3-4, and 2-Track	<ul style="list-style-type: none">• Built-in DSP module, with 100 presets (only XM-12D/12DA)• Foot switch for the remote control of the effect (only XM-12D/12DA)• Built-in power amplifier (only XM-12DA)• RMS 300W/Ch@4Ω• EIAJ 700W/Ch @4Ω (only XM-12DA)
Each mono channel:	<ul style="list-style-type: none">• Balanced XLR outputs and un-balanced TRS outputs• Gold plated XLR connector and 1/4" Jack are both provided for the Mic signal inputs• Up to 40dB range Trim control• Low Cut switch at 75Hz, with 18dB/Oct slope• Insert facility for extra signal processing• Warm, natural 3 bands EQ, with the MID center frequency sweepable	<ul style="list-style-type: none">• 2 AUX send buses for external effects or monitoring• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel
Each stereo channel:	<ul style="list-style-type: none">• Only Left input for mono application• Operating level switch: +4dBu for professional equipment inputs, and -10dBV for Hi-Fi• 4 band EQ with the sophisticated center frequency• 2 AUX send buses for external effects or monitoring	<ul style="list-style-type: none">• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel
Physical:	<ul style="list-style-type: none">• Dimensions (W×D×H): XM-12 / XM-12D: 420 × 310 × 90 / 45mm (16.5" × 12.2" × 3.5" / 1.8")XM-12DA: 427 × 425 × 138 / 96mm (16.8" × 16.7" × 5.4" / 3.8")• Weight: XM-12 / XM-12D: 5.1kg (11.24 lbs); XM-12DA: 10.6kg (23.37 lbs)	

MIXER / SWITCHING POWER MIXER

XM-16 Series

XM-16 / XM-16D / XM-16DA

There are total 16-Channel inputs for the XM-16/XM-16D/XM-16DA mixing console: 8 mono MIC inputs, and 4 stereo Line Inputs.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



XM-16D

MODEL	XM-16/16D/16DA	
Common features:	<ul style="list-style-type: none">• Extremely high headroom offering enough dynamic range• Extra low distortion pre-amp section• Better performance with excellent noise figures• High quality potentiometers/faders with smooth feel• Robust construction for long time operation	
Main section:	<ul style="list-style-type: none">• 2-Track inputs, with its independent level control, assignable to Main Mix bus or Control Room/Headphone output• 2 stereo AUX Returns can be used as the additional line inputs• 12-segment LED ladder for output level display• Main Mix source matrix: ALT3-4, and 2-Track• Control Room source matrix: Main Mix, ALT3-4, and 2-Track	<ul style="list-style-type: none">• Built-in DSP module, with 100 presets (only XM-16D/16DA)• Foot switch for the remote control of the effect (only XM-16D/16DA)• Built-in power amplifier (only XM-16DA)• RMS 300W/Ch@4Ω• EIAJ 700W/Ch @4Ω (only XM-16DA)
Each mono channel:	<ul style="list-style-type: none">• Balanced XLR outputs and un-balanced TRS outputs• Gold plated XLR connector and 1/4" Jack are both provided for the Mic signal inputs• Up to 40dB range Trim control• Low Cut switch at 75Hz, with 18dB/Oct slope• Insert facility for extra signal processing• Warm, natural 3 bands EQ, with the MID center frequency sweepable	<ul style="list-style-type: none">• 2 AUX send buses for external effects or monitoring• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel
Each stereo channel:	<ul style="list-style-type: none">• Only Left input for mono application• Operating level switch: +4dBu for professional equipment inputs, and -10dBV for Hi-Fi• 4 band EQ with the sophisticated center frequency• 2 AUX send buses for external effects or monitoring	<ul style="list-style-type: none">• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel
Physical:	<ul style="list-style-type: none">• Dimensions (W × D × H): XM-16 / XM-16D: 420 × 436 × 86mm (16.5" × 17.2" × 3.4")• Weight (Approx.): XM-16 / XM-16D: 6.4kg (14.10 lbs)	

MIXER / SWITCHING POWER MIXER

XM-20 Series

XM-20 / XM-20D / XM-20DA

There are total 20-Channel inputs for the XM-20/XM-20D/XM-20DA mixing console: 12 mono MIC inputs, and 4 stereo Line Inputs.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



XM-20D

MODEL	XM-20/20D/20DA	
Common features:	<ul style="list-style-type: none">• Extremely high headroom offering enough dynamic range• Extra low distortion pre-amp section• Better performance with excellent noise figures• High quality potentiometers/faders with smooth feel• Robust construction for long time operation	
Main section:	<ul style="list-style-type: none">• 2-Track inputs, with its independent level control, assignable to Main Mix bus or Control Room/Headphone output• 2 stereo AUX Returns can be used as the additional line inputs• 12-segment LED ladder for output level display• Main Mix source matrix: ALT3-4, and 2-Track• Control Room source matrix: Main Mix, ALT3-4, and 2-Track• Balanced XLR outputs and un-balanced TRS outputs• Built-in DSP module, with 100 presets (only XM-20D/20DA)• Foot switch for the remote control of the effect (only XM-20D/20DA)• Built-in power amplifier (only XM-20DA)• RMS 300W/Ch@4Ω• EIAJ 700W/Ch @4Ω (only XM-20DA)	
Each mono channel:	<ul style="list-style-type: none">• Gold plated XLR connector and 1/4" Jack are both provided for the Mic signal inputs• Up to 40dB range Trim control• Low Cut switch at 75Hz, with 18dB/Oct slope• Insert facility for extra signal processing• Warm, natural 3 bands EQ, with the MID center frequency sweepable• 2 AUX send buses for external effects or monitoring• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel	
Each stereo channel:	<ul style="list-style-type: none">• Only Left input for mono application• Operating level switch: +4dBu for professional equipment inputs, and -10dBV for Hi-Fi• 4 band EQ with the sophisticated center frequency• 2 AUX send buses for external effects or monitoring• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel	
Physical:	<ul style="list-style-type: none">• Dimensions (W × D × H): XM-20 / XM-20D: 540 × 420 × 90 / 45mm (21.3" × 16.5" × 3.5" / 1.8")• XM-20DA: 645 × 425 × 138 / 96mm (25.4" × 16.7" × 5.4" / 3.8")• Weight (Approx.): XM-20 / XM-20D: 7.6kg (16.76 lbs); XM-20DA: 14.2kg (31.31 lbs)	

MIXER / SWITCHING POWER MIXER

XM-24 Series

XM-24 / XM-24D

There are total 24-Channel inputs for the XM-24/XM-24D mixing console: 16 mono MIC inputs, and 4 stereo Line Inputs.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



XM-24D

MODEL	XM-24/24D	
Common features:	<ul style="list-style-type: none">• Extremely high headroom offering enough dynamic range• Extra low distortion pre-amp section• Better performance with excellent noise figures• High quality potentiometers/faders with smooth feel• Robust construction for long time operation	
Main section:	<ul style="list-style-type: none">• 2-Track inputs, with its independent level control, assignable to Main Mix bus or Control Room/Headphone output• 2 stereo AUX Returns can be used as the additional line inputs• 12-segment LED ladder for output level display• Main Mix source matrix: ALT3-4, and 2-Track• Control Room source matrix: Main Mix, ALT3-4, and 2-Track• Balanced XLR outputs and un-balanced TRS outputs• Built-in DSP module, with 100 presets (only XM-24D)• Foot switch for the remote control of the effect (only XM-24D)	
Each mono channel:	<ul style="list-style-type: none">• Gold plated XLR connector and 1/4" Jack are both provided for the Mic signal inputs• Up to 40dB range Trim control• Low Cut switch at 75Hz, with 18dB/Oct slope• Insert facility for extra signal processing• Warm, natural 3 bands EQ, with the MID center frequency sweepable• 2 AUX send buses for external effects or monitoring• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel	
Each stereo channel:	<ul style="list-style-type: none">• Only Left input for mono application• Operating level switch: +4dBu for professional equipment inputs, and -10dBV for HIFI• 4 band EQ with the sophisticated center frequency• 2 AUX send buses for external effects or monitoring• AUX1 can be switched between post-fader and pre-fader; and AUX2 can also be changed to pre-fader• Peak LEDs on each channel• Mute/ALT3-4 output bus option• PFL Solo function for level setting of each channel	
Physical:	<ul style="list-style-type: none">• Dimensions (W × D × H): 649 × 436 × 86mm (25.6" × 17.2" × 3.4")• Weight (Approx.): 8.9kg (19.62 lbs)	

MIXING CONSOLE

XM-12D USB

This is total 12 channel inputs for new XM-12D USB mixing console: 4 Mono MIC inputs, and 4 Stereo Line inputs, 2 Stereo AUX RETURN inputs, 1 RCA input, Built in USB port with direct MP3 player + DSP Preset function.

DSP Preset Functions:

- 00~09: Echo
- 10~19: Echo + Verb
- 20~29: Tremolo
- 30~39: Plate
- 40~49: Chorus
- 50~59: Vocal
- 60~69: Rotary
- 70~79: Small Room
- 80~89: Flanger + Verb
- 90~99: Large Hall



USB Player



XM-12D USB

MODEL	XM-12D USB
Mono channels:	Balanced gold plated XLR and 1/4" TRS jack, INSRT socket Gain range: 0dB~40dB,with switchable 75Hz 18dB/Oct low cut function 3-band EQ with mid sweep(100Hz~8kHz) 2 AUX send bus, AUX SEND 1 can be switched before/after faders AUX send 2 can be switched before faders Mute/ALT 3-4, Peak LEDs, PFL Solo function on each channel Phantom power: '+44~49V with switch control
Stereo input channels:	Balanced 1/4" TRS jack +4dBu/-10dBV selector on each stereo channel Warm, natural 4-band fixed frequency EQ on each stereo channel 2 AUX send bus, AUX SEND 1 can be switched before/after faders AUX send 2 can be switched before faders Mute/ALT 3-4, Peak LEDs, PFL Solo function on each channel
Mzin mix section:	Support USB I/F MP3 player and 2-Track input assignable to Main Mix, Control Room/Phones outputs Highly accurate 12-segment bar graph meters Main mix matrix: ALT3-4 and 2-Track assignable to main mix bus Ctrl Room matrix: Main Mix, ALT3-4 and 2-Track(USB) Balanced XLR and unbalanced TRS output
DSP section:	Built-in 24 bit digital effect processor,100 preset(10preseter*10variation) Mute switch & Foot-switch with LED indicator
USB Player section:	USB port with direct MP3 player Only support MP3 format music playback Freq. response:20Hz~20kHz; S/N Ratio: > 90dB Distortion(at 1kHz):<0.04%
Dimensions (W × D × H):	420 x 310 x 45mm (16.5" x 12.2" x1.8")
Weight (Approx.):	5.1Kgs (11.24 lbs)

DJ MIXER

DJM-412

This is a PRE-AMP DJ MIXER series which has excellent performance and complete function that it makes your performance incisive and vivid.

Features:

- 4 space rack design; XLR 1/4" combo Mic input
- 4 band master EQ and dual LED master an cue meter
- 3 band EQ per channel to control low level, mid level and high level frequency
- Push button CUE per channel with green LED indicator allowing CUE mix
- Talk over feature with sensitivity control T . BNC lamp port
- 1/4" headphone input; Selectable crossfader
- 2 band Mic EQ & Volume controls booth and zone outputs
- Front RCA AUX input for MP3 players, computers or any other audio source
- 5 lines, 2 MIC, 3 phone/ AUX convertible RCA inputs
- Master (XLR and 1/4"), record, booth & send RCA output, 1/4" zone output



DJM-412

MODEL	DJM-412
Inputs:	Mic.: -55dB; Line / AUX: -10dB; Phono: -50dB (for output 1.0V)
S /N ratio:	Mic: 78dB; Line / AUX: 88dB; Phono: 80dB
Equalizer:	±10dB at 60, 800, 6.3k, 15kHz
Frequency response:	Mic.: 80-18kHz (±0.5dB) Line / AUX: 20-22kHz (±0.5dB) Phono: ±1dB for controlled attenuation of -3dB at 20Hz to reduce rumble and feedback
Outputs:	Line: 9V RMX (Max.) Headphone Amp.: 0.5W at 47 Ω Distortion: less than 0.05%
Controls (Front):	1. Fader-Start cross-fader with front panel controls 2. Split / blend cue options 3. 4-band ±10dB EQ for each channel 4. Power switch 5. Stereo meter for each channel 6. Cues on each channel with cue / send rear output for sampling and booth cue monitor 7. Neutrik " Combo" connector (1/4 or XLR plug) for DJ Mic. 8. Front panel BNC light connector
Controls (Rear):	1. Stereo RCA input for CHI~4 2. Balance output 3. Master booth zone rec. Output-RCA 4. AC select 115V / 230V input
Power consumption:	10W typical 17W with full headphone output
Dimensions (W × D × H):	480 x 180 x 108mm (19" x 7.1" x4.3")
Weight (Approx.):	4.7 Kgs (10.36 lbs)

CLASS-D POWERED BOX MIXER
DMB-8.700 USB

NEW

SEIKAKU introduces the new cool shape powered mixers DMB series
This series is designed by the latest technologies which includes 8 main channels, 3 bands EQ, 2x350W RMS load at 4 ohms, 100 DSP effects and lots great functions It is easy to be carried to everywhere through included shoulder strap and easy to set up by its all-in-one design

- Features:
- CLASS-D 2 x 350W RMS load at 4 ohms
 - 6 MIC and 2 Stereo inputs
 - DSP module with 100 presets
 - USB port with direct MP3 player
 - 7 band stereo graphic EQ for MAIN
 - 3 bands EQ, Left / Right balanced control, volume control monitor level and effect adjustment for each channel
 - 48V phantom, -20dB PAD for CH1 ~ CH4
 - Accurate output level indicator
 - High efficiency switching mode power supply
 - Perfect over-temperature, overload and short-circuit protections for post digital power amplifier



DMB-8.700 USB

MODEL	DMB-8.700 USB	
Input	Mic 2kΩ Balanced ;Line 10kΩ Balanced	Mid bell: ±15dB @2.5kHz
Input Impedance	Mic +40dB ;Line +25dB	Low-shelving: ±15dB @80Hz
Input Gain:		7-band EQ: 63Hz, 125Hz, 500Hz, 1.5kHz, 3.5kHz, 8kHz, 15kHz
CMR at 1kHz Line (20Hz-20kHz):	> 60dB	DSP section
Frequency response:	Mic to Mix 20Hz-20kHz ±3dB	A/D and D/A converters: 24Bit
Signal / Noise Ratio (20Hz-20kHz):	Mic EIN ref. 150Ω -110dBu	DSP resolution: 24Bit
System Noise (20Hz-20kHz)		Type of effects: Echo, Echo + Verb, Tremolo, Plate, Chorus, Vocal, Rotary, Small Room, Flager + Verb, Large Hall
Summing Noise:	-90dBu	Presets: 100
Line to Mix Noise:	-86dBu	Controls: 100-Position PRESET selector, Clip LED, MUTE SWITCH with LED indicator
Distortion at 1kHz:	Mic to Mix (+30dB unity gain, +20 dBu output) Typ 0.03%	Power Amplifier
Crosstalk at 1kHz:	channel to channel >-80dB ; Mix to Mix >-80dB ; Channel to Mix >-80dB	Stereo Mode: RMS: 350W x 2 @4Ω ; 180W x @8Ω
Fader Attenuation:	> 100dB	Mono Mode: RMS: 600W x 2 @8Ω
Output		Power supply
Output Impedance:	All Line Outputs 120Ω Balanced	USA / Canada: 100-120 VAC ~60Hz
All Outputs on 1/4" jacks:	+22dBu	Europe: 220-240 VAC ~50Hz
Headphones:	+22dBu / 600Ω	U.K. / Australia: 240 VAC ~50Hz
Equaliser		
Hi-shelving:	±15dB @12kHz	

INTELLIGENT P.A. SYSTEM (APS SERIES)



- 103 APS-2313DE / APS-2315DE
- 104 APS-2316DE / APS-2210DE
- 105 APS-600E
- 106 APS-1E / APS-2E
- 107 APS-3E / APS-4E
- 108 APS-5E

APS SERIES
SPEAKER MONITOR

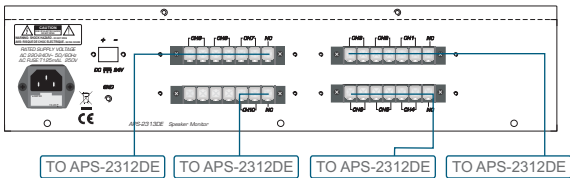
APS-2313DE

SPECIFICATION

- With DC 24V function.
- 10-channel inputs.
- Built-in monitor speaker with volume control.
- LED display input level.
- Each monitor channel equipped with LED display.



APS-2313DE

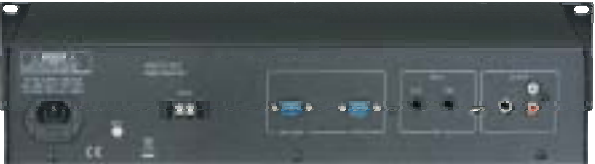
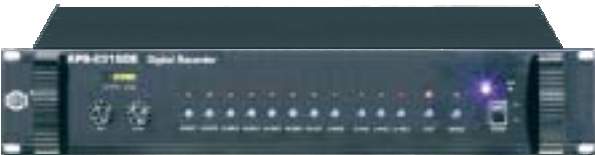


DIGITAL RECORDER

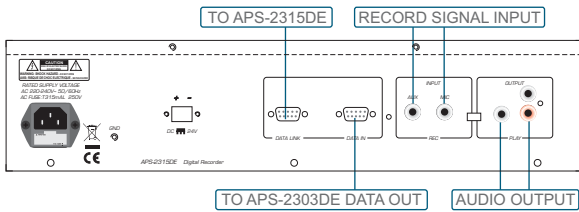
APS-2315DE

SPECIFICATION

- With DC 24V function.
- Built-in music and bell programs specific for school broadcast.
- 1 MIC and 1 LINE inputs, 1 output.
- Up to 24 minute digital recording IC for voice file, supplied 8-channel controls, each of them can REC./PLAY adjust level separately.
- Rewriting, recording, playing and rewind functions are available.
- Three chimes are available.
- LED indicator monitor the level of recording/playing.
- Manual control or link up the APS-2303DE for remote control.



APS-2315DE



PROFESSIONAL TUNER

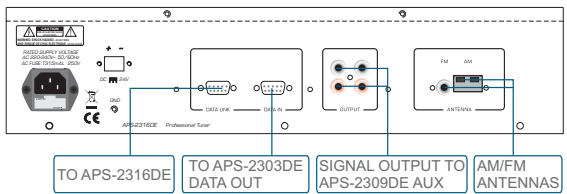
APS-2316DE

SPECIFICATION

- With DC 24V function.
- AM/FM band.
- Micro computer chip control, Digital tuning system.
- Touch button to control, LCD display.
- 20 radio-station memory function .
- Manual storage & automatic searching function.
- Level indicator & data memory function.
- Intelligent control via connecting the APS-2303DE.



APS-2316DE



HIGH POWER P.A. AMPLIFIER

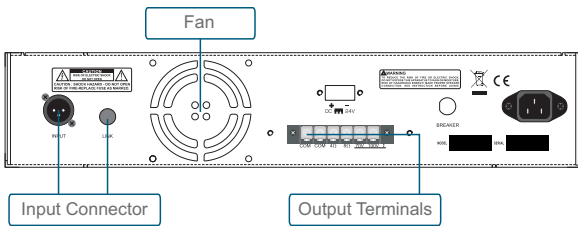
APS-2210DE

SPECIFICATION

- With DC 24V function.
- One Balanced XLR & one 6.3 ϕ stereo input sockets.
- High power output, rated power is AC 360W , THD 1% ; DC 210W , THD 1%.
- LED indicators for CLIP/ PROT/ SIG.
- Low impedance 4 Ω and high voltage of 70V/100V outputs.
- Provide with speaker protection circuit & signal compressor circuit.
- Connector :balanced XLR & 1/4" TRS.



APS-2210DE



MODEL	APS-2313DE
Power Supply:	AC 110~120V / 220~240V 60Hz / 50Hz; DC 24V
Power Consumption:	\leq 2W
Monitor Channel:	10 Channels
Input Voltage:	MAX 120V audio voltage
Output Power:	MAX 6W at 8 Ω
Dimensions (W x H x D):	483 \times 88 \times 370mm (19" \times 3.5" \times 14.6")
Weight:	6.5Kg (14.33 lbs)

MODEL	APS-2315DE
Power Supply:	AC 110~120V / 220~240V, 60Hz / 50Hz; DC 24V
Power Consumption:	< 10W
Input Sensitivity:	MIC: -52dBV/600 Ω unbalanced ; AUX: -22dBV/10k Ω unbalanced
Output Level:	0dBV 600 Ω
Frequency Response:	50~4kHz
S/N ratio:	MIC > 60dB; AUX > 75dB
Program Channel:	8 channels
Recording Time:	MUSIC1: 6 mins; MUSIC2: 5 mins; MUSIC3: 4 mins; MUSIC4: 3 mins; MUSIC5: 2 min; MUSIC6: 2 mins; MUSIC7: 1 min; MUSIC8: 1 min;
Dimension (W x H x D):	483 \times 88 \times 370mm (19" \times 3.5" \times 14.6")
Weight (Approx.):	6.5kg (14.33 lbs)

MODEL	APS-2316DE
Power Supply:	AC 110~120V / 220~240V 60Hz / 50Hz; DC 24V
Receiver Range:	FM: 87~108MHz / AM: 522~1611KHz
Input Sensitivity:	FM: 16dBu; AM: 49dBu
Tuner Frequency step:	FM: 50KHz; AM: 9KHz
S/N ratio:	FM: Mono: 76dB, Stereo: 70dB / AM: 40dB
MID Frequency:	FM: 10.7MHz; AM: 9KHz
Output Level:	1v/0dB/10k Ω
Dimension (W x H x D):	483 \times 88 \times 370mm (19" \times 3.5" \times 14.6")
Gross Weight:	9.2kg (20.28 lbs)
Net Weight:	7.5kg (16.53 lbs)

MODEL	APS-2210DE
Power Supply:	AC 100~120V / 220~240V 60 / 50Hz; DC 24V
Input Connector:	Balanced XLR and 1/4" TRS
Input Impedance:	20k Ω
Input Sensitivity:	3dBu
Output Voltage/Impedance:	0-4 Ω / 0-8 Ω ; 0-70V(13.6 Ω) / 0-100V(27.8 Ω)
Output Power:	210W RMS; 300W MAX
Distortion:	1%
Frequency Response:	18Hz-18KHz -3dB
S/N ratio:	> 80dB(unweighted), > 100 dB(A weighted); > 95dB(unweighted), > 110 dB(A weighted)
Dimension(W x H x D):	483 \times 88.8 \times 400mm (19" \times 3.5" \times 15.7")
Gross Weight:	20.3kg (44.75 lbs)
Net Weight:	17.5kg (38.58 lbs)

APS SERIES
HIGH POWER P.A. AMPLIFIER

APS-600E

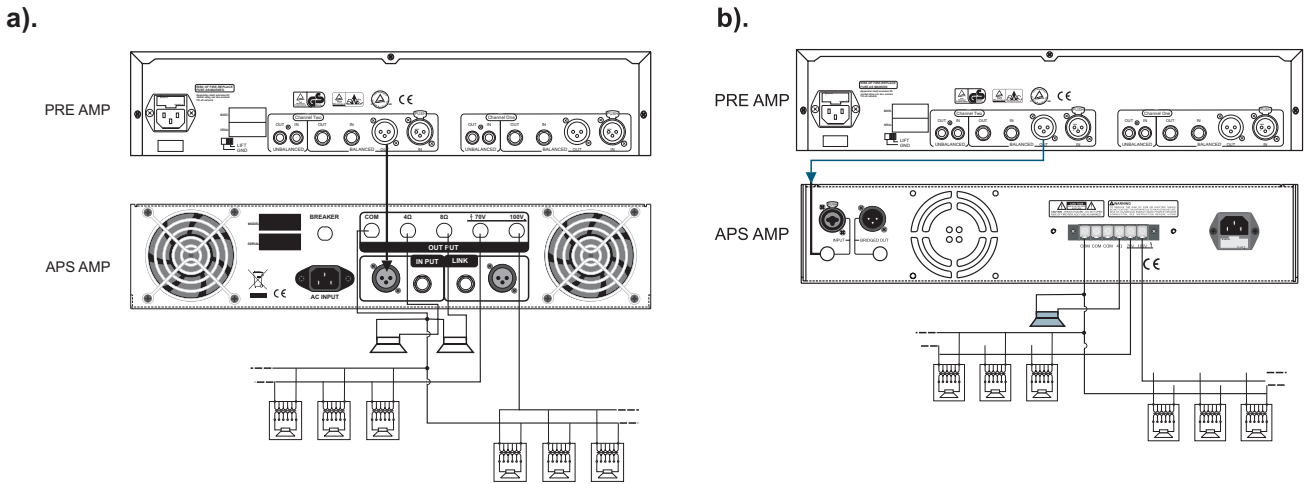
SPECIFICATION

- High power output, RMS 600W
- LED indicators for POWER, SIGNAL, CLIP, PROT and TEMP
- One balanced XLR & one 6.3 ϕ input port
- Low impedance 4 Ω ~ 8 Ω and high voltage of 70V/100V output
- Functions of signal compressing , speaker protection, temperature and short circuit protection
- Built-in treble and bass control function
- LED siren and built-in sound siren for output obstacle
- Transient over load protection when the unit is turned on



APS 600E

Connection Diagram of Single Model Outputs



MODEL	APS-600E
Power supplier:	AC110-120V / 220-240V ; 60Hz / 50Hz
Input connector:	Balanced XLR 1/4"TRS
Input sensitivity:	0dB
Input impedance:	20K Ω
Using method:	Single unit
Output voltage/	0-4 Ω
Impedance:	0-8 Ω ; 0-70V(8.2 Ω) ; 0-100V(16.7 Ω)
Output power (RMS):	600W
Distortion:	<0.5%
Frequency response:	50Hz-22KHz / -3dB
SNR:	>90dB(@1KHz)
Dimensions (W \times H \times D):	483 \times 88.8 \times 400mm (19" \times 3.5" \times 15.7")
Weight (Approx.):	16.8kg (37.04 lbs)

VOLUME CONTROLLER

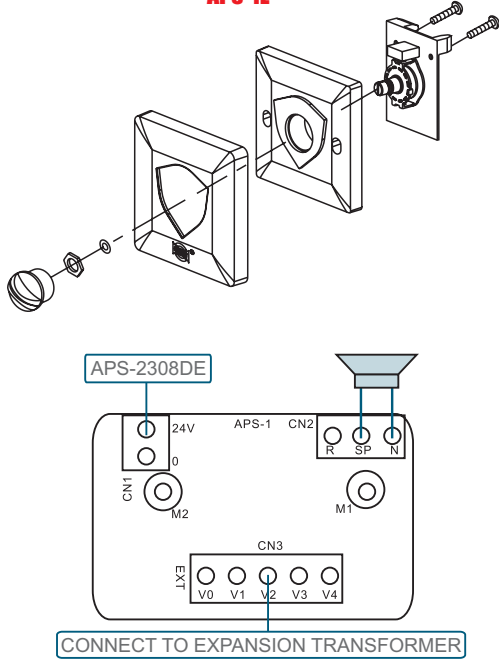
APS-1E

SPECIFICATION

- Power: 0-10W, the max power is up to 15W.
- With power expansion port.
- Priority switching function.



APS-1E



MODEL	APS-1E
Input Voltage:	Max. 120V
Input/ Output terminal:	R: COM; SP: output; N: input
Switching power terminal:	24V
Expansion port:	V0, V1, V2, V3,V4
Max. power (expansion port):	200W
Dimension:	87 \times 87 \times 53mm (3.4" \times 3.4" \times 2.1")
Gross Weight:	0.15kg (0.33 lbs)
Net Weight:	0.08kg (0.18 lbs)

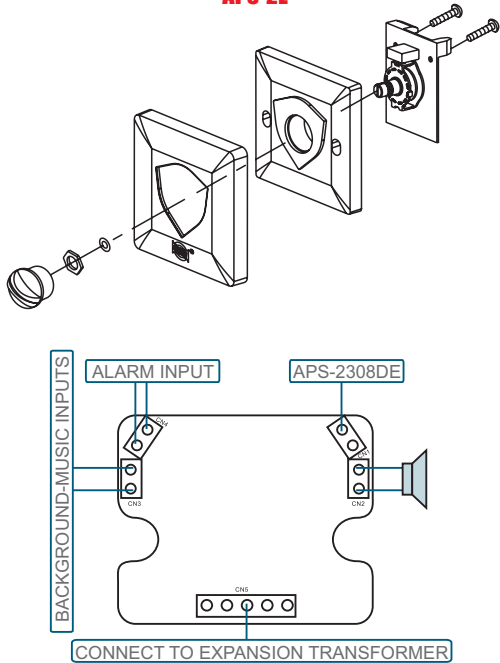
APS-2E

SPECIFICATION

- Power: 0-50W, the max power is up to 60W.
- 1 alarm input, 1 background-music input and output.
- With power expansion port.
- Priority switching function.



APS-2E



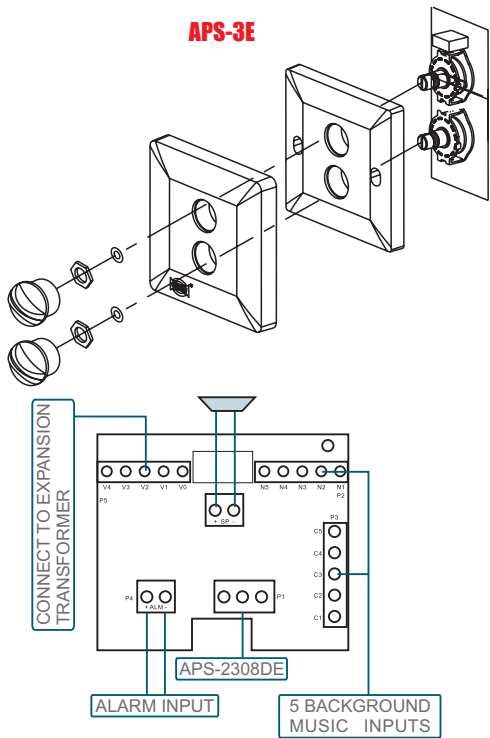
MODEL	APS-2E
Input Voltage:	Max. 120V
Input channel:	2
Switching power terminal:	24V
Output terminal:	SP + COM
Expansion port:	V0, V1, V2, V3,V4
Max. Power (expansion port):	200W
Dimension:	87 \times 87 \times 53mm (3.4" \times 3.4" \times 2.1")
Gross Weight:	0.28kg (0.62 lbs)
Net Weight:	0.21kg (0.46 lbs)

APS SERIES
VOLUME CONTROLLER

APS-3E

SPECIFICATION

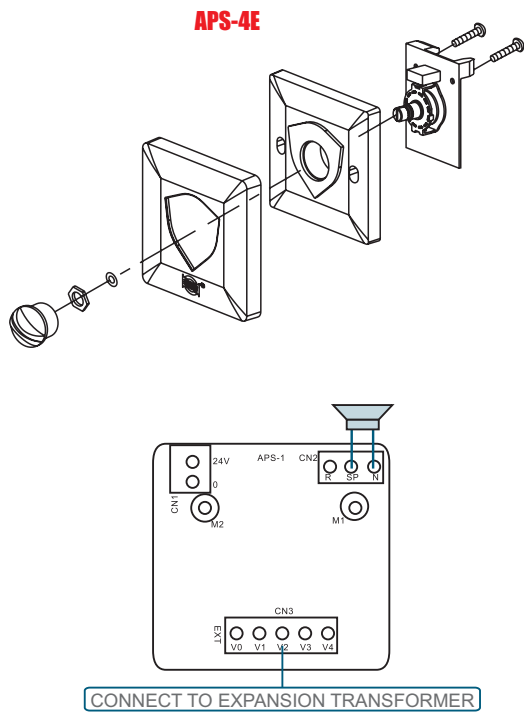
- Power: 0-10W, the max power is up to 15W.
- 1 alarm input, 5 background-music inputs. (Option)
- With power expansion port.
- Prioty switching function.



APS-4E

SPECIFICATION

- Power: 0-10W, the max power is up to 15W.
- With power expansion port.

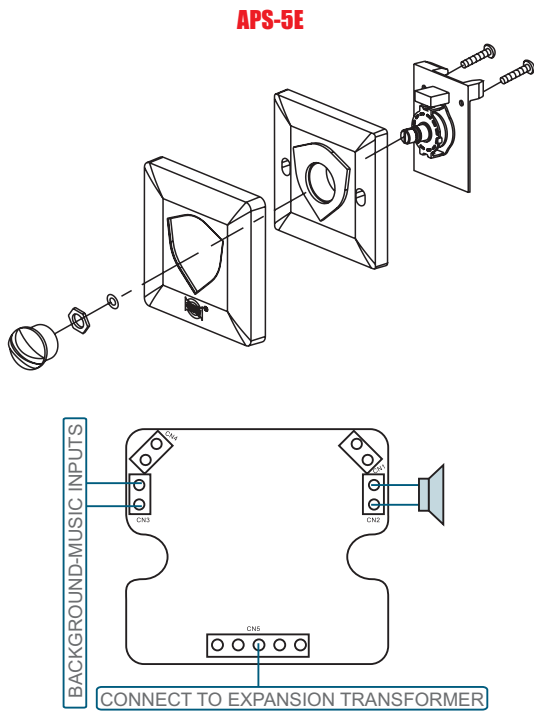


VOLUME CONTROLLER

APS-5E

SPECIFICATION

- Power: 0-50W, the max power is up to 60W.
- 1 alarm input, 1 background-music input and output.
- With power expansion port.



MODEL	APS-3E	MODEL	APS-4E
Input Voltage:	Max. 120V	Input Voltage:	Max. 120V
Input channel:	2	Input/Output terminal:	R: COM; SP: output; N: input
Input channel for background music:	5 (option)	Expansion port:	V0, V1, V2, V3,V4
Expansion port:	1	Max. power (expansion port):	200W
Max. Power (expansion port):	200W	Dimension:	87 × 87 × 53mm (3.4" × 3.4" × 2.1")
Dimension:	87 × 87 × 53mm (3.4" × 3.4" × 2.1")	Gross Weight:	0.15kg (0.33 lbs)
Gross Weight:	0.18kg (0.40 lbs)	Net Weight:	0.08kg (0.18 lbs)
Net Weight:	0.11kg (0.24 lbs)		

MODEL	APS-5E
InputVoltage:	Max. 120V
Inputchannel:	1
Outputterminal:	SP + COM
Expansionport:	1
Max.power(expansionport):	200W
Dimension:	87 × 87 × 53mm (3.4" × 3.4" × 2.1")
GrossWeight:	0.28kg (0.62 lbs)
NetWeight:	0.21kg (0.46 lbs)

Lined area for notes.

