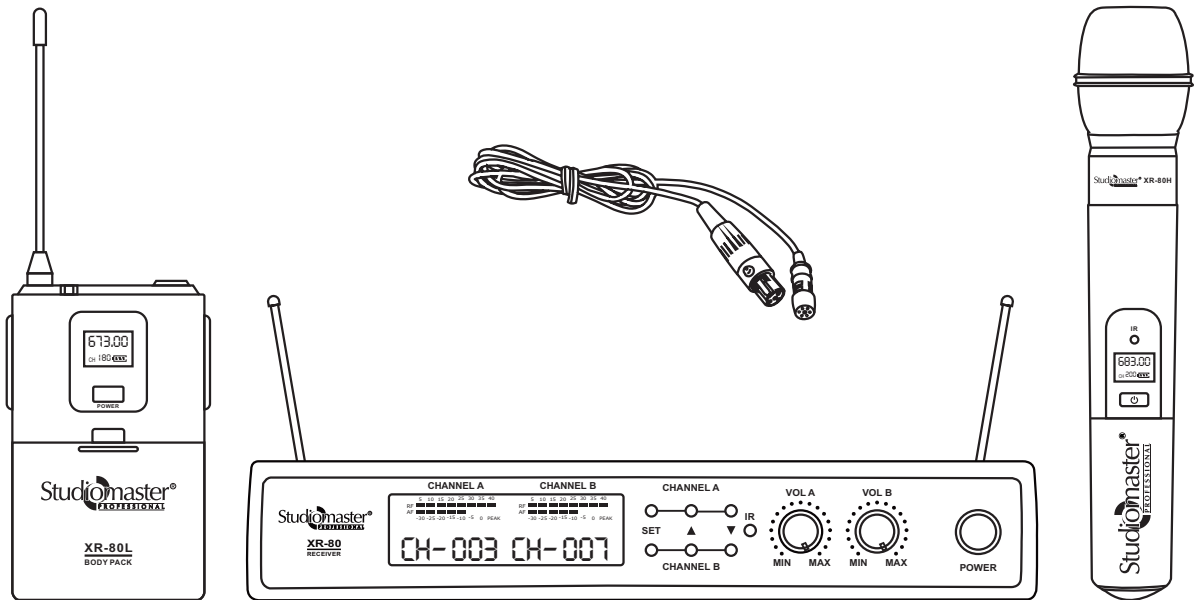


StuDiomaster®

PROFESSIONAL

XR-80

Professional Duet UHF Wireless Microphone Systems



The StuDiomaster Professional XR 80 is a high quality dual UHF Wireless technology system engineered for the most demanding touring environments & installations. This XR 80 Wireless systems offers unprecedented flexibility & versatility. To ensure optimum performance & safety, please follow this instruction manual carefully. Please retain this manual for future reference. For any complaint, feedback or testimonials please contact our distributor / dealer.

1.....	Features
2.....	Systems Options
3.....	Operating Instructions
4.....	Basic Troubleshooting
5.....	Channel No. & Frequency
6.....	Technical Specifications
7.....	Safety Instructions

1. Features

- High Quality UHF Band Frequency Duet Wireless Microphone System.
- 80+ UHF selectable channels.
- UHF Operating Frequency Range: 583-683MHZ.
- Two microphones can be used at the same time.
- Individual Channel Output with Level Control & Mix Output.
- Display for channel number indication, transmitter reception indication (RF) and Audio level indication (AF).

2. System Options

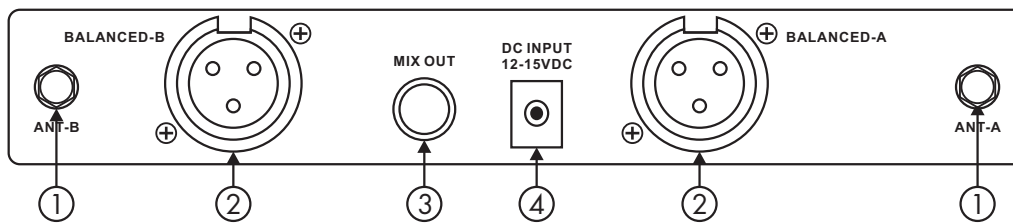
Model :

- XR - 80 HH (Handheld + Handheld)
- XR - 80 HL (Handheld + Lapel).

3. Operating Instructions

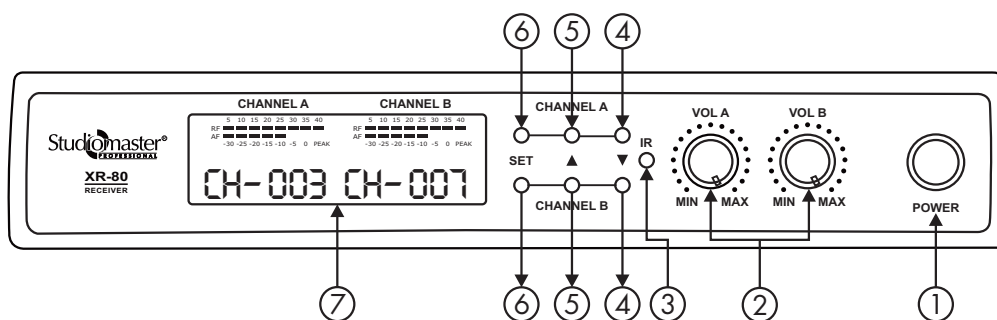
3.1 Receiver Features: Front & Rear Panel

Rear Panel



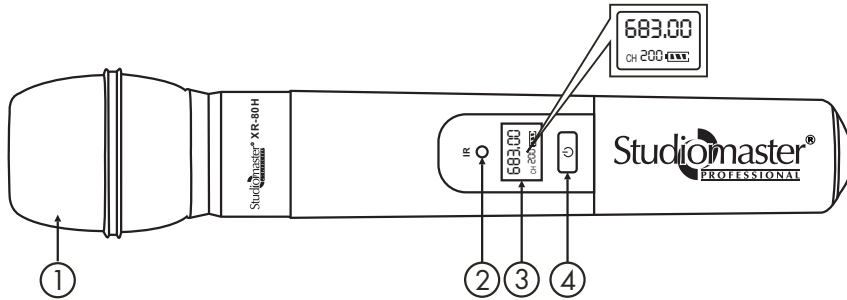
1. **Antenna** : The antenna receives signals from Transmitter, for better strength keep the antenna fully extended.
2. **Balanced audio output** : 3 Pin XLR female connectors are provided to connect to the input of the Mixer/Amplifier/ Powered speaker.
3. **Mix out** : 1/4" (6.35) Unbalanced TRS Jack is provided to connect the mix out to the input of Mixer/Amplifier/ Powered speaker.
4. **Power Jack** : 12VDC Input voltage to power up the unit.

Front Panel



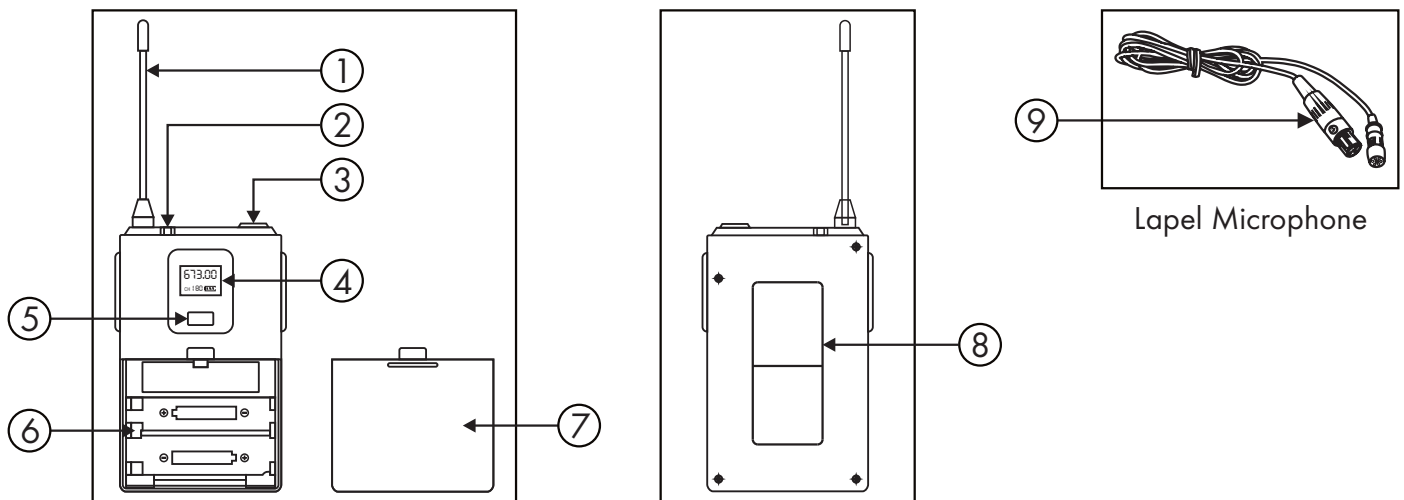
1. **Power ON/OFF Switch** : To switch ON/OFF the receiver module. Single press to switch ON the unit & long press to switch it OFF.
2. **Volume Controls** : To adjust the Input signal level.
3. **IR Sensor**: The IR sensor is provided for synchronization of the transmitter.
4. **▼ Down Key** : It is used to decrease channel number.
5. **▲ Up Key** : Up key is use to increase channel number.
6. **Set** : After changing channel frequency press "Set" button to set it.
7. **Display** : The display screen is provided to indicate channel numbers (CH-001 to CH-200), Transmitter reception (RF) and Audio level indication (AF).

3.2 Handheld Transmitter Features



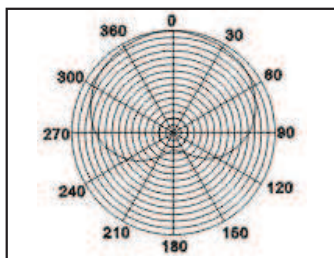
1. **Grill** : It protects the capsule from damages. Also it acts as an effective wind & pop filter.
2. **IR Window**: It is provided for synchronisation with receiver.
3. **LED Screen** : LED screen displays the fixed channel frequency with channel number.
4. **Power ON/OFF Switch**: This switch can be used to ON/OFF microphone as required. Single press to switch ON the Mic and long press to switch it OFF.

3.3 Body Pack Features

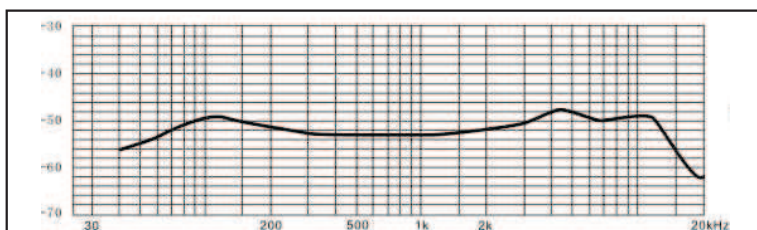


1. **Antenna**: Transmission Antenna.
2. **Power ON LED**: LED lights up when Lapel body is switched on.
3. **Mic Input**: Input socket to connect lapel microphone.
4. **Display** : It display fixed frequency with channel number.
5. **Power ON/OFF Switch** : This switch can be used to ON/OFF microphone as required.
6. **Battery Compartment**: Use 2 x 1.5V AA batteries to power Bodypack unit.
7. **Battery Cover**: Slide downward for access to the battery compartment.
8. **Belt Clip**: To hang on belt.
9. **Microphone (Lapel)**.

3.4 Polar Pattern Transmitter

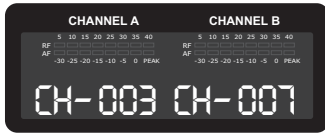


3.5 Frequency Response Curve Transmitter



3.6 How to operate

1. Confirm the connections between receiver and mixer as well as between mixer and amplifier are correct. Turn down the volume on the amplifier or mixer.
2. Turn on the receiver:
The receiver will display the last selected channel number, There will be no bargraph indication because the transmitters are OFF.



Receiver Display



Channel A Transmitter is OFF



Channel B Transmitter is OFF

3. Turn on the transmitter:

The transmitter is turned ON, the receiver display shows the RF bargraph of respective channel as shown below.



Receiver Display



Channel A Transmitter



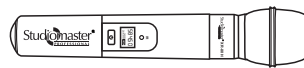
Channel B Transmitter

4. Test the transmitters:

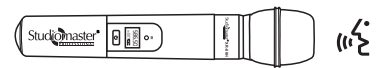
When Microphone is active it is indicated by signal strength (AF) on receiver.



Receiver Display



Channel A: No Audio



Channel B: Audio

5. Re-selecting the Channel frequency:



Receiver Display



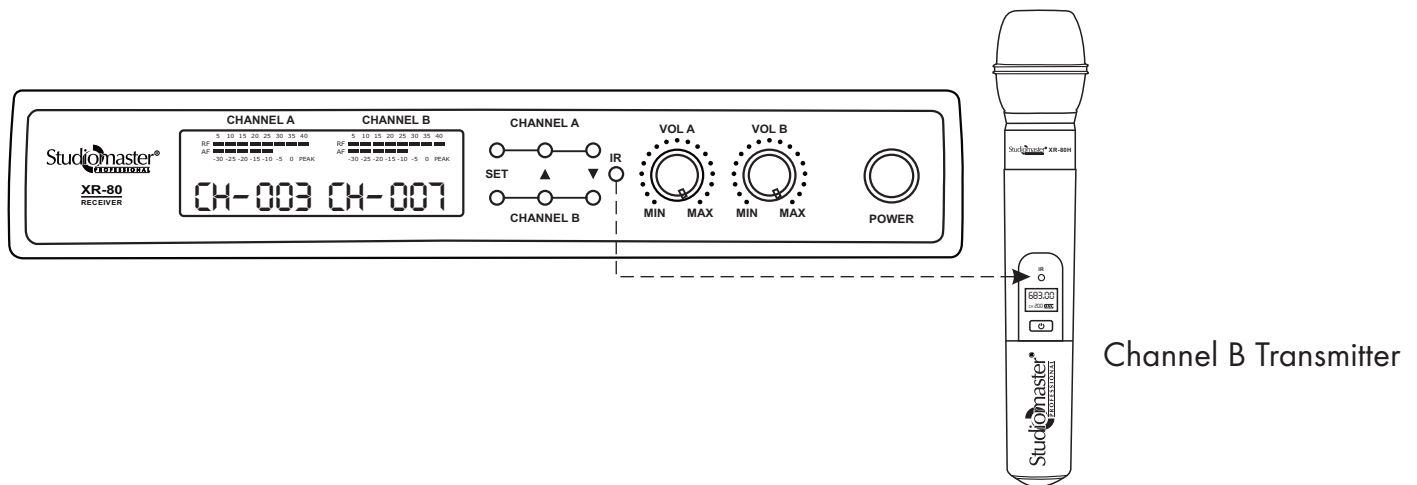
Channel A Transmitter



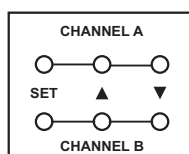
Channel B Transmitter

To set transmitter & receiver channel follow the following procedure. Ensure IR on receiver & transmitter facing each other & kept closed to each other.

- Bring the transmitter near to receiver, make sure transmitter IR window face to the receiver IR window.



- Change channel number on receiver unit using Up & Down key as shown below.



- Press "Set" button to select required frequency the receiver will search for the transmitter & after 3 to 5 seconds it will set the selected frequencies as shown below.



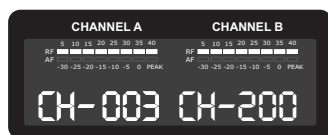
Receiver Display



Channel A Transmitter



Channel B Transmitter



Receiver Display



Channel A Transmitter



Channel B Transmitter

- Note:**
- For better reception and to avoid interference XR 80 offers you selection of 80 channels.
 - Please refer channel No. & frequency chart for all channels with respective frequencies.

Usage Tips

- Make sure you can always see the receiver antenna from the transmitter position.
- Keep the distance from transmitter to receiver as short as possible
- Avoid obstruction between transmitter & receiver.
- Perform a "Walk Test" before performance or presentation. If dead spots are found, adjust location of receiver. If dead spots remain mark spots and avoid that spot.

4. Basic Troubleshooting

Problem	Solution
No Voice; (No signal on receiver)	<ul style="list-style-type: none"> • Check whether power switches of transmitter & receiver are ON. • Check whether the battery connections are correct & battery polarity is right in transmitter. • Check whether the antenna is properly connected on receiver. • Make sure that there is no obstruction between the antenna & the transmitter.
No Voice; (Signal is normal)	<ul style="list-style-type: none"> • Check whether the level control of the receiver is set enough. • Check whether the connection between receiver & mixer, mixer & amplifier or amplifier & speaker are connected. Also check mixer or amplifier volumes are ok.
No Voice; (RF signal is normal but AF signal is weak)	<ul style="list-style-type: none"> • Check whether the transmitter battery is fully charged.. • Check whether the same channel frequency is selected on receiver as of mic.
When transmitter is ON, there is noise or interruption in the receiving signal.	<ul style="list-style-type: none"> • Check whether the battery is charged fully. • Eliminate the RF source of the disturbance nearby which causes interference. • If the signal is too weak, place the receiver closer to transmitter as far as possible.

5. Channel No. & Frequency

CH. No.	Frequency	CH. No.	Frequency	CH. No.	Frequency	CH. No.	Frequency	CH. No.	Frequency
001	583.50	041	603.50	081	623.50	121	643.50	161	663.50
002	584.00	042	604.00	082	624.00	122	644.00	162	664.00
003	584.50	043	604.50	083	624.50	123	644.50	163	664.50
004	585.00	044	605.00	084	625.00	124	645.00	164	665.00
005	585.50	045	605.50	085	625.50	125	645.50	165	665.50
006	586.00	046	606.00	086	626.00	126	646.00	166	666.00
007	586.50	047	606.50	087	626.50	127	646.50	167	666.50
008	587.00	048	607.00	088	627.00	128	647.00	168	667.00
009	587.50	049	607.50	089	627.50	129	647.50	169	667.50
010	588.00	050	608.00	090	628.00	130	648.00	170	668.00
011	588.50	051	608.50	091	628.50	131	648.50	171	668.50
012	589.00	052	609.00	092	629.00	132	649.00	172	669.00
013	589.50	053	609.50	093	629.50	133	649.50	173	669.50
014	590.00	054	610.00	094	630.00	134	650.00	174	670.00
015	590.50	055	610.50	095	630.50	135	650.50	175	670.50
016	591.00	056	611.00	096	631.00	136	651.00	176	671.00
017	591.50	057	611.50	097	631.50	137	651.50	177	671.50
018	592.00	058	612.00	098	632.00	138	652.00	178	672.00
019	592.50	059	612.50	099	632.50	139	652.50	179	672.50
020	593.00	060	613.00	100	633.00	140	653.00	180	673.00
021	593.50	061	613.50	101	633.50	141	653.50	181	673.50
022	594.00	062	614.00	102	634.00	142	654.00	182	674.00
023	594.50	063	614.50	103	634.50	143	654.50	183	674.50
024	595.00	064	615.00	104	635.00	144	655.00	184	675.00
025	595.50	065	615.50	105	635.50	145	655.50	185	675.50
026	596.00	066	616.00	106	636.00	146	656.00	186	676.00
027	596.50	067	616.50	107	636.50	147	656.50	187	676.50
028	597.00	068	617.00	108	637.00	148	657.00	188	677.00
029	597.50	069	617.50	109	637.50	149	657.50	189	677.50
030	598.00	070	618.00	110	638.00	150	658.00	190	678.00
031	598.50	071	618.50	111	638.50	151	658.50	191	678.50
032	599.00	072	619.00	112	639.00	152	659.00	192	679.00
033	599.50	073	619.50	113	639.50	153	659.50	193	679.50
034	600.00	074	620.00	114	640.00	154	660.00	194	680.00
035	600.50	075	620.50	115	640.50	155	660.50	195	680.50
036	601.00	076	621.00	116	641.00	156	661.00	196	681.00
037	601.50	077	621.50	117	641.50	157	661.50	197	681.50
038	602.00	078	622.00	118	642.00	158	662.00	198	682.00
039	602.50	079	622.50	119	642.50	159	662.50	199	682.50
040	603.00	080	623.00	120	643.00	160	663.00	200	683.00

6. Technical Specifications

RECEIVER

Operating Frequency Range	583-683MHz
Receiving Frequency	Variable
Frequency Response	40Hz-16KHz
Nominal deviation / peak error	± 15KHz
Total harmonic distortion	<0.02%
Dynamic Range	> 100dB
Power Requirement	DC 12V
Current Consumption	150mA

TRANSMITTER

Carrier frequency	583-683MHz
Frequency stability	+0.03%
Frequency response	40Hz-16KHz
Total Harmonic radiation	<0.02%
Dynamic Range	>100dB
Use Battery	2 x 1.5V (AA)
Current Consumption	150mA
Battery Life	5-7 hours

7. Safety Instructions

- Keep the wireless receiver in a good location to ensure good signal strength.
- Please keep the product away from direct sunrays & rain.
- Please keep the product away from heavy magnetic or electromagnetic fields, it could affect product performance.
- Please switch off when removing the batteries.
- Please remove the batteries/ power supply when the product is not being used for a long time.
- Do not open any of the components yourself, for repairs please contact an authorised Studiomaster Professional dealer.
- Do not use systems with the same frequency at the same place, please separate them by a considerable distance.

Range of Studiomaster Professional Products.

Wired Microphones

SM 100XLR
TRIO 100
SM 200XLR
TRIO 200
SM 300I
SM 400XLR
SM 450XLR
SM 500XLR
SM 600XLR
SM 650XLR
SM 800C
SM 900C
SBM 10
SBM 20
Flex 2/Flex 2B
Flex 3
Flex 4

Wireless Microphones

BR 28 Series
BR 48 Series
ER 7 Series
ER 11 Series
ER 31 Series
ER 58 Series
KR 12 Series
TR 47 Series
XR 40 Series
XR 100 Series

Conference System

Vāk 10 System
Vāk 10s
Vāk 10d / Vāk 10c
Vāk 20

Crossovers

SX-2
SX-321
SX-521

Processors

SEQ 152
SEQ 302F
SEQ 312
Multi 3
SFX 8
SPS 8
SDX 4
Phantom 11

Mixers

- ~ **Cub Series**
 - CUB 4
 - CUB 6
 - CUB 6U
- ~ **Air Series**
 - AiR 2
 - AiR 4
 - AiR 6
 - AiR 8
 - AiR 12
 - AiR 16
 - AiR Pro 24
 - AiR Pro 28
 - AiR Pro 36

~ Air X Series

AiR X 10
AiR X 14
AiR X 18

~ AQUA Series

Aqua 6
Aqua 8
Aqua 10
Aqua 14

~ Digital Mixer

D. Mix 20

~ Diamond Club Series

Diamond Club 6.2
Diamond Club 8.2
Diamond Club 8.2 EFX
Diamond Club 12.2
Diamond Club 12.2 EFX
Diamond Club 12.2 USB
Diamond Club 16.2
Diamond Club 16.2 EFX

~ Diamond Supreme Series

Diamond Supreme 12
Diamond Supreme 12U
Diamond Supreme 16U

~ Club 2000 Series

C 142
C 182

~ Platinum Series

Platinum 12Fx
Platinum 16
Platinum 16Fx

~ Diamond Pro-3 Series

Pro-3 12.3
Pro-3 16.3

~ DJ Mixers

DJX 300
DJX 325
Playmix 300
DJX 825
DJX 855
DJX 875
DJX 925
DJX 975

CD/USB Media Player

MP 2000

Amplifiers

~ P - Series

PA 1.5
PA 2.0
PA 3.0
PA 4.5
PA 6.0
PA 7.5

~ DPA Series

DPA 2000
DPA 3200
DPA 4500
DPA 5000

~ DJA Series

DJA 100
DJA 500
DJA 800
DJA 1600
DJA 2500
DJA 3200
DJA 4000
DJA 5000

XJA 2600

~ Arena Series

Arena 20
Arena 30

~ Industrial Amplifier

ARC 120A
ARC 240A

Speaker Component

~ S-Series

SWF 18120
SWF 18100
SWF 1880
SWF 1560
SMB 1565
SMB 1545
SMB 1530
SMB 1250
SMB 1230
SMB 1220
SHF 0104
SHF 0210

~ E-Series

EMB 1225
EMB 1530
EMB 1535

~ TITAN Series

TWF 2115
TWF 1815
TWF 1811
TWF 1580
TMB 1555
TMB 1535
THF 0208

Passive Speakers

~ S-Series

S5225
S8018
S8118
S8128
S8028

~ Fire Series

Fire 21 / Fire 51
Fire 51A
Fire 55 / Fire 57
Fire 82
Fire 84

~ XVP Series

XVP 1225
XVP 1540
XVP 1540M
XVP 1560
XVP 2250
XVP 2550
XVP 2585
XVP 25A2
XVP 25A6
XVP 1808
XVP 1812
XVP 2820

EKS 151

Q 400

Powered Speaker

~ ARIA Series

Aria 8
Aria 12
Aria 15

~ A Series

A 400
A 500

H 400

~ B Series

B 200
B 400 (Black & White)
B 400U
B 400UB

~ OP Series

OP 415
OP 515

~ SUB Series

O 12SUB
O 15SUB

Line Array System

FIRE 92
SLA-40 T
SLA-40 Kit
SLA 30
S 9022
S 9022 (FK)

Stabilizers

SVC - S1000
SVC - S2000
SVC - S3000
SVC - S5000
SVC - S6000
SVC - S8000
SVC - S10000
SVC - S12000

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