

DETAILED TECHNICAL SPECIFICATIONS

AUDIO AND VISUAL SYSTEMS

Particulars	Technical Specifications	Quantity
Professional Mixer 24 Channel	<p>The item must be genuine by its given brand with minimum technical specification:</p> <p>Mixing Capability Mixing Channel: 24 Line Inputs (16 mono and 4 stereo) Groups: 4 Group Buses + Stereo Bus Aux: 6 AUX Sends + 2 FX Sends Matrix: 1 Matrix out On Board Processors: FX1:REV-X(8 PROGRAM, PARAMETER control)/ FX2:SPX(16 PROGRAM, PARAMETER control) Input/OutPut Mic Input: MIC: 16 (INPUTS HPF: 100Hz 12dB/oct) Phantom Power: 48V Phantom Power per channel Line inputs: 16 mono + 4 stereo, CH INSERT: 16 RETURN: 1 stereo Digital Input/Output: USB Device</p> <p>Total Harmonic Distortion: 0.02% (20Hz-20kHz@ +14dBu) Frequency Response: +0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz Hum/Noise Level: Equivalent input noise: -128 dBu Residual input noise: -92 dBu Power Requirements:100-240V 50Hz/60Hz</p> <p>Controls</p> <p>Left-Right Balance Control AUX Controls Equalizer Controls: (LOW,MID,HIGH) Gain Control, (Mono and Stereo) per channel Master Volume Control</p>	1

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Particulars	Technical Specifications	Quantity
<p>Professional Mixer 16 Channel</p>	<p>The item must be genuine by its given brand with minimum technical specification:</p> <p>Mixing Capability Mixing Channel:16 Line Inputs (8 mono and 4 stereo) Groups: 4 GROUP Buses + ST Bus Aux: 2 AUX Sends + 2 FX Sends On Board Processors: FX1:REV-X(8 PROGRAM, PARAMETER control), FX2:SPX (16 PROGRAM, PARAMETER control) Input/Output: Mic Input: 10 Phantom Power: 48V Phantom Power per channel LINE: 8mono+4stereo, CH INSERT: 8, RETURN: 1stereo, 2TR IN: 1 stereo Digital Input/Output: USB Device,</p> <p>Total Harmonic Distortion: 0.02% (20Hz-20kHz@ +14dBu) Frequency Response: +0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz Hum/Noise Level: Equivalent input noise: -128 dBu Residual input noise: -102 dBu Power Requirements: 100-240V 50Hz/60Hz</p> <p>Left-Right Balance Control AUX Controls Equalizer Controls: (LOW,MID,HIGH) Gain Control, (Mono and Stereo) per channel Master Volume Control</p>	<p>1</p>

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Particulars	Technical Specifications	Quantity
<p>Professional Audio Crossover</p>	<p>The item must be genuine by its given brand with minimum technical specification Modes: Stereo 2/3 Way and Mono 4-Way Input Connectors: XLR Output Connectors: XLR Input Type: Electronically balanced/unbalanced, Radio Frequency filtered Output Type: Impedance-balanaced/unbalanced, Radio Frequency filtered Input Impedance: Balanced >50k ohm, unbalanced >25k ohm Output Impedance: Balanced 60 ohm, unbalanced 30 ohm Maximum Input: >+22dBu balanced or unbalanced Maximum Output: >+21dBu balanced/unbalanced into 2k ohms or greater Common Mode Rejection Ratio: >40dB, around >55dB at 1kHz Bandwidth: 20Hz to 20kHz, +/-0.5dB Frequency Response:3 Hz to 90 kHz, +0/-3 dB Signal to Noise Ratio: +4 dBu, 22 kHz measurement bandwidth Signal-to-Noise (Stereo Mode): >94dB for Low Output , >93dB for Mid Output, >90dB for High Output Signal-to-Noise (Mono Mode):>94dB for Low Output and Low/Mid Output; >92dB for High/Mid Output; >88dB for High Output Dynamic Range: greater than 106 dB, unweighted, any output THD+Noise: < 0.004% at +4 dBu, 1 kHz; < 0.04% at +20 dBu, 1 kHz Interchannel Crosstalk: < -80 dB, 20 Hz to 20 kHz Crossover Frequencies (Stereo Mode): Low/Mid: 45 to 960 Hz or 450 Hz to 9.6 kHz (x10 setting); Low/High: 45 to 960 Hz or 450 Hz to 9.6 kHz (x10 setting); Mid/High 450Hz to 9.6kHz (x10 setting) Crossover Frequencies (Mono Mode): Low/Low-Mid: 45 to 960 Hz or 450 Hz to 9.6 kHz (x10 setting); Low-Mid/High-Mid: 450 Hz to 9.6 kHz; High-Mid/High: 450 Hz to 9.6 kHz Crossover Filter Type: Linkwitz-Riley, 24 dB/octave, state-variable Activator for 40 Hz Butterworth, 12 dB/octave high-pass filter, one switch per channel</p>	<p style="text-align: center;">1</p>

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	<p>Activator for multiplying the low-high(mono: low/mid and high/mid) crossover frequency range of the front-panel markings by a factor of 1 or 10, one switch per channel.</p> <p>**The item must conformed with the following minimum standards but shall not limited to the following:</p> <p>Safety *IEC 60065-1</p> <p>EMC: *IEC 61000-4-2 *IEC 61000-4-3 *IEC 61000-4-4 *IEC 61000-4-5 *IEC 61000-4-6 *IEC 61000-4-8 *IEC 61000-4-11</p> <p>Other: *Low Voltage Directive 2006/95/EC *EMC Directive 2004/108/EC *RoHS Directive 2002/95/EC *WEEE Directive 2002/96/E</p>	

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Particulars	Technical Specifications	Quantity
<p style="text-align: center;">31 Band Equalizer</p>	<p>The item must be genuine by its given brand with minimum technical specification: Input Connector: 1/4" TRS, female XLR (pin 2 hot) Output Connectors: 1/4" TRS, female XLR (pin 2 hot)</p> <p>Input Type: Electronically balanced/unbalanced, Radio Frequency filtered Output Type: Impedance-balanced/unbalanced, RF filtered</p> <p>Input Impedance: Balanced 40k ohm, unbalanced 20k ohms Output Impedance: Balanced 100 ohm, unbalanced 50 ohm</p> <p>Max Input: >+21dBu balanced or unbalanced Max Output: >+21dBu balanced/unbalanced into 2k ohm or greater; >+18dBm balanced/unbalanced</p> <p>Common Mode Rejection Ratio: >40dB, typically >55dB at 1kHz Bandwidth: 20Hz to 20kHz, +0.5/-1dB Frequency Response: <10Hz to >50kHz, +0.5/-3dB Dynamic Range: around greater than 112dB Signal to Noise Ratio: around greater than 95dB THD+Noise: <0.003% Interchannel Crosstalk <-90dB, 20Hz to 20kHz</p> <p>Bypass Switch Low cut Switch the 50Hz 12dB/octave high-pass filter Range Switch Selects either +/- 6dB or +/-12dB slider boost/cut range Operating Voltage: 100-240VAC 50/60Hz</p> <p>**The item must conformed with the following minimum standards but shall not limited to the following:</p>	<p>1</p>

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Particulars	Technical Specifications	Quantity
	<p>Safety: * IEC 60065 -01</p> <p>EMC: * EN 55022:2006 * EN 55024:1998 * FCC Part 15</p> <p>Other *Low Voltage Directive 2006/95/EC *EMC Directive 2004/108/EC *RoHS Directive 2002/95/EC *WEEE Directive 2002/96/EC</p>	

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Particulars	Technical Specifications	Quantity
<p>Professional 15 inches Active Speaker</p>	<p>*The item must be genuine by its given brand with minimum technical specification: *Must possess a clear sound out even without using equalizer or mixer *minimum of 15 inches speaker *1000W peak Class D Amplifier or better and with minimum of 500W RMS Root Mean Square(RMS) Wattage or better *High Frequency Titanium Driver minimum of 1.4 inches diameter *Low Frequency Woofer: 15' woofer, minimum of 3" Voice Coil with high class magnet or better *Enclosure Material: Polypropylene or better acoustic material *Frequency Response: approximately 55 Hz-18Khz *Frequency Range: 42Hz - 20Khz or better *Maximum Sound Pressure Level(SPL) of 127 or better *Coverage: Horizontal x Vertical(90 degrees x 60 degrees) *with Digital Sound Processing, (2) XLR/TRS Combo Jack (1) 3.5 mm Input and (1) XLR link Output</p> <p>**The item must conform with the following minimum standards but shall not be limited to the following *Restriction of Hazardous Substances(RoHS)- restricts the use of the hazardous substances in electronic and electrical equipment *EN 61000-3-3 OR IEC 61000-3-3 The standard establishes limits on the magnitude of voltage fluctuations and flicker that equipment can introduce into the power supply system *EN 61000-3-2 OR IEC 61000-3-2 The standard that sets limits on the harmonic current emissions produced by electrical and electronic equipment, ensuring that the equipment operates within acceptable levels. Compliance with these limits helps reduce electromagnetic interference and power quality problems in the electrical grid. *EN 55032 OR EMC Directive (2014/30/EU) - Standard to ensure that electrical and electronic equipment can operate without causing or being affected by electromagnetic interference (EMI)</p>	<p style="text-align: center;">4</p>

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Particulars	Technical Specifications	Quantity
<p style="text-align: center;">Professional Active Sub Woofers</p>	<p>Active Sub Woofer (minimum specifications)</p> <p>The item must be genuine by its given brand with minimum technical specification:</p> <ul style="list-style-type: none"> *with at least 18 inches diameter Low Frequency Sub Woofer *Adjustable Low Pass Filter 80 Hz, 100 Hz, 120 Hz, 150 Hz or similar *Connectors of (2) XLR/TRS combo jacks and (2) XLR link outputs *Frequency response of 47 Hz - 105 Hz¹ or similar as long as the range categorizes as Sub Woofer sound frequency range (20–200 Hz) *Frequency range 40 Hz - 145 Hz¹ or similar as long as the range categorizes as a Sub Woofer sound frequency range (20–200 Hz) *Maximum sound pressure level (SPL) 132 dB <p>**The item must conformed with the following minimum standards but shall not limited to the following</p> <ul style="list-style-type: none"> *Restriction of Hazardous Substances(RoHS)- restricts the use of the hazardous substances in electronic and electrical equipment *EN 61000-3-3 OR IEC 61000-3-3-The standard establishes limits on the magnitude of voltage fluctuations and flicker that equipment can introduce into the power supply system *EN 61000-3-2 OR IEC 61000-3-2-The standard that sets limits on the harmonic current emissions produced by electrical and electronic equipment, ensuring that the equipment operates within acceptable levels. Compliance with these limits helps reduce electromagnetic interference and power quality problems in the electrical grid. *EN 55032 OR EMC Directive (2014/30/EU) - Standard to ensure that electrical and electronic equipment can operate without causing or being affected by electromagnetic interference (EMI) 	<p>2</p>

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Particulars	Technical Specifications	Quantity
<p>Professional 12 inches Speaker</p>	<p>The item must be genuine by its given brand with minimum technical specification: Frequency Response: 65 Hz - 18 kHz Frequency Response: 65 Hz - 18 kHz Coverage: Horizontal x Vertical(90 degrees x 60 degrees) Built In Amplifier: Class D 1000W minimum of 500W RMS Root Mean Square(RMS) Wattage or better Low Frequency: 300mm Woofer high class magnet High Frequency Titanium Compression Driver minimum of 1.4 inches diameter (2) XLR/TRS Combo Jack (1) 3.5 mm Input and (1) XLR link Output with Digital Sound Processing</p> <p>**The item must conformed with the following minimum standards but shall not limited to the following</p> <p>*Restriction of Hazardous Substances(RoHS)- restricts the use of the hazardous substances in electronic and electrical equipment</p> <p>*EN 61000-3-3 OR IEC 61000-3-3 -The standard establishes limits on the magnitude of voltage fluctuations and flicker that equipment can introduce into the power supply system</p> <p>*EN 61000-3-2 OR IEC 61000-3-2-The standard that sets limits on the harmonic current emissions produced by electrical and electronic equipment, ensuring that the equipment operates within acceptable levels. Compliance with these limits helps reduce electromagnetic interference and power quality problems in the electrical grid.</p> <p>*EN 55032 OR EMC Directive (2014/30/EU) - Standard to ensure that electrical and electronic equipment can operate without causing or being affected by electromagnetic interference (EMI)</p>	<p style="text-align: center;">6</p>

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Particulars	Technical Specifications	Quantity
<p style="text-align: center;">Wireless Handheld Micro Phone</p>	<p>The item must be genuine by its given brand with minimum technical specification Set: Include 2-Wireless MicroPhone and Transmitter Transmitter minimum specification: RF Power Output: Max 30mW Phase-Locked Loop Oscillation Mode Transmit Frequency Stability: Less than 30 parts per million Dynamic Range: Greater of equal to >=100dB(A) Frequency Response: 50Hz-15KHz Maximum input Sound Pressure: 130dB SPL Microphone pickup type: moving coil Power: 2x (1.5V) AA Battery Receiver minimum specification: Phase-Locked Loop Oscillation Mode Spur Suppresion : greater than or equal to 80dB Mirror Suppresion: greater than or equal to 80dB Sensitivity of 5 decibels microvolt Audio Output Level: Balanced output(XLR output jack) Unbalance output: 400mV/K30hms Operatiing Voltage: Direct Current 12-16Volts Operating Current: 1 Ampere</p>	<p>4</p>

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Particulars	Technical Specifications	Quantity
<p style="text-align: center;">Wireless Conference Goose Microphone</p>	<p>8-Channel Wireless Conference System The item must be genuine by its given brand with minimum technical specification:</p> <p>Receiver Frequency Range: 780-820Mhz 740-820Mhz 615-665Mhz Sensitivity:-94 dBm for 30dB Modulation Mode: FM Frequency Stability +0.005% Maximum Deviation Rang +45Khz Audido Frequency Response 50Hz-15KHz Signal / Noise Ration greater than 105dB Audio Dynamic Range greater than 100dB Total Harmonic Distortion: less than 0.5%</p> <p>Transmitter: Frequency Range: 780-820Mhz 740-820Mhz 615-665Mhz Harmonic Radiation: <-63dBm BandWidth: 8Mhz Maximum Input Pressure 130dB Frequency sound range - 50Hz - 18Khz Power Supply: 2x1.5V AA Battery</p> <p>*Includes 8 wireless goose microphone and 1 transmitter</p>	2

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Particulars	Technical Specifications	Quantity
The item must be genuine by its given brand with minimum technical specification:		
Audio Accesories		
Mixer Rack	Standard 12 U	1
Snake Cable	24 Channel	1
Speaker Stand	-Compatible for 15 inches Speaker	4
Microphone Stand	Material: Chrome Steel or other durable materials Stage Microphone Stand Height adjustable for 36" to 64"	2
Stereo Cable	-200 meters -Standard Stereo Cable	1
Male XLR Adapter	XLR Adapter	20
Female XLR Adapter	XLR Adapter	20

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Particulars	Technical Specifications	Quantity
Wall Bracket for 15 inches Speaker	*The wall bracket must be compatible for the 15 Active Speaker.	4
Wall Bracket for 12 inches Speaker	*The wall bracket must be compatible for the 12 Active Speaker.	6
SMART TV	The item must be genuine by its given brand with minimum technical specification: 4k Resolution 65 inches QLED Display Android Operating System Google Features ports: HDMI, USB 3.0 include device original Remote Control	7
Projector	The item must be genuine by its given brand with minimum technical specification: 3500 Lumens 20,000-hour laser light source (standard mode) or better Standard Throw Projection Method: DLP or better Maximum Diagonal Image: 300 inches Native Resolution: WXGA(1,280x800) or better Maximum Resolution:WUXGA (1920x1200) or better Aspect Ratio: 16:9 Interfaces: 2 HDMI	2

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Particulars	Technical Specifications	Quantity
<p>Lights and Controller</p>	<p>The items must be genuine by its given brand with minimum technical specification:</p> <p>2 units Moving head Lights Specs Controllable using DMX 512 controller Lamp: 7R Bulb Power: 189W/230W Strobe: 1-13times/second Color temperature : 8000K Horizontal scanning 540 degrees, Horizontal 16 bit, electronic error correction, vertical scanning 270 degrees, vertical 16 bit, electronic error correction Effect wheel: 8-facet Prism Color wheel: 14 colors Gobo: 17 gobos IP lever: IP20 Must be compatible on DMX 512 controller</p> <p>DMX 512 Controller DMX512/1990 Standard Controls 24 intelligent lights of up to 16 channels, totally 384 channels 30 banks, each with 8 scenes; 6 chase, each with up to 240 scenes Record up to 6 chases with fade time and speeds 16 sliders for direct control of channels DMX in/out: 3 pin XLR</p> <p>4 Units Stage PAR LIGHT Type: Led Matrix Light 54*3W LED (R12/G18/B18/W6) Lamp Luminus Flux: 3200 lumens Controllable using DMX 512 controller Color Temperature(CCT)-10000K Lamp Luminous Efficiency(lm/w): 24 Color Rendering Index(Ra) :76</p>	<p style="text-align: center;">1</p>

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Particulars	Technical Specifications	Quantity
	Supports Dimmer Lifespan (hours): 50000 Working Time (hours): 50000 Color: 1670 kinds of colors Control mode: Auto/Sound/DMX/Master-slave Includes 4 units of stage PARLIGHT	
Public Address System	The items must be genuine by its given brand with minimum technical specification: Supply and Installation of PA System Includes: 15 Ceiling Mount Speakers and compatible Amplifier Ceiling Mount Speakers minimum Specifications 8 inches Full Range Speakers Frequency Response: 95Hz to 16KHz or better Sensitivity: 93 decibels or better INCLUDES INSTALLATION	1
-Nothing follows-		