



**ANNEX 1 (Technical Specifications) - REVISED**

1 - Specification for Projector Screen (KC 04) Qty: 04		Your brand and Specifications
<i>Sample Attached</i>	<b>Minimum Requirements</b>	
Supported Resolution:	1080P	
Screen Type:	Automatic	
Mount Type:	Wall & Ceiling	
Aspect Ratio:	16:09	
Viewable Diagonal in.:	216"	
Viewable Width in.:	188"	
Viewable Height in.:	106"	
Surface Color:	White	
Front/Rear Projection:	Front	
Projection Surface:	Matte White	

2 - Specification for Projector Screen (GC 04) Qty: 04		Your brand and Specifications
	<b>Minimum Requirements</b>	
Width - Height	8ft x6ft	
	Motoried Projector Screen	

3- Specifications for Projector ( FA-2, FEST-4) Qty: 06		Your brand and Specifications
	<b>Minimum Requirements</b>	
Image Brightness	3000 Lumens	
Lamp Type	LCD / DLP	
Resolution	1200 x 800	
Features	Keystone, Focus	
Video Input	HDMI and VGA	
Projection Method	Rear, Front and Ceiling	
Spare Lamp	Required (Qty 1)	





4 - Specifications for CCTV IP Camera - Dome ( FA-4) Qty: 04		Your brand and Specifications
	Minimum Requirements	
<b>HARDWARE</b>		
Sensor	1/3" CMOS /CCD	
Progressive scanning	Required	
Mega Pixel	3MP	
IR Distance	50ft	
Night Vision	Required	
Power input	DC12V and PoE (802.3af)	
<b>AUDIO VIDEO ENCODING</b>		
Video Compression	H.264 / MPEG4	
Frame rate	Up to 30fps @ 1080p	
Privacy Mask	4 Regions	
<b>DATA TRANSMISSION AND STORAGE</b>		
Alarm Trigger	Motion detection, tampering alarm, network disconnect , IP address conflict, storage exception	

5. Specifications for Outdoor Wireless access point - (KC-03 , GC-01) Qty 04		Your brand and Specifications
	Minimum Requirements	
Controller Compatibility	Unifi Controller	
Environment	Outdoor	
2.4 GHz Speed	450 Mbps	
5 GHz Speed	1300 Mbps	
Ports	(1) Gigabit Ethernet	
PoE Mode	802.3af/A PoE & 24V PoE	
PoE Injector	required	



6. Specification for Computer Systems (TC-04 , FEST-51, CA-30 NLL 13) Qty 98		Your brand and Specifications
	Minimum Requirements	
Processor	Core i5 (9th Gen- 6 Core ) / AMD Ryzen 5 ( 6 Cores, 12 threads ) or higher	
Processor Frequency	intel: 3GHz ( 4.4Ghz Max turbo ) / AMD: 3.6 GHz ( 4.2Ghz Boost Clock )	
Cache	Intel: 9MB Intel® Smart Cache / AMD: Total L2 Cache: 3MB, Total L 3 Cache: 32MB	
RAM Memory	16GB DDR4 ( 8 x 2 ) Dual Channel	
Memory Speed	2133 Mhz	
Storage	240GB PCIe NVMe SSD (for OS) 500GB HDD	
Video Output	HDMI/ VGA/Displayport	
Audio	Integrated	
Keyboard & Mouse	Keyboard & Optical Mouse	
Display	LED 24" Wide Panel	
Network	Gigabit Ethernet	
Warranty	1 Year Parts	

7. Specifications for USB Webcams (Meeting Rooms) (FA-02) Qty 02		Your brand and Specifications
	Minimum Requirements	
Resolution	Full HD 1080p at 30fps / 720p at 60fps streaming	
Features	Automatic low-light correction	
Micropphone	Omnidirectional mics	
Tripod	Fully adjustable tabletop tripod	





8. Specification for Network Switch 24port (POE) (SM-01, NLL 04) Qty 05		Your brand and Specifications
	Minimum Requirements	
Ports	24 x 1G RJ45 Ports 2 x SFP ports	
Power Over Ethernet	24W per port	
Manageable	Yes	
Features	Layer 2 switching, VLAN Support, IPv6 support, Rapid Spanning tree Protocol (RSTP) Support, Multiple Spanning tree protocol (MSTP) Support, DHCP snooping, Dynamic Trunking protocol (DTP) Support, Port Security	
Forwarding Rate	60 Mpps	
Flash Memory	128 MB	
RAM	256 MB	
Form Factor	1U Rackmount / Standalone	
Warranty	3 Years basic hardware warranty	

9. Specification for Network Switch 8port (POE) (FA-1, FHTS-1) Qty 2		Your brand and Specifications
	Minimum Requirements	
Ports	8 x 1G RJ45 Ports	
Power Over Ethernet	24W per port	
Warranty	1 Years basic hardware warranty	

10. Specifications for NVR (16 Channel) (GC-01, TC-01) Qty 02		Your brand and Specifications
	Minimum Requirements	
<b>Audio/Video Inputs/Outputs</b>		
IP Video Input		16
Video Interface	HDMI, VGA	
Recording Resolution	1080p	
Output Resolution	1080p/60Hz	
<b>Decoding and Playback</b>		
Decoding Formats	H.264, H.265, H.264+, H.265+	
Synchronous Playback	16-Channel	
<b>HDD</b>		
HDD Included	2 x 8TB SATA (Surveillance Hard Drive)	
<b>Interface</b>		
Network Interface	1 x RJ45 1000M	
<b>Camera Compatibility</b>		
IP Dome camera	DS-2CD1143G0-I	
IP Bullet camera	DS-2CD2043G0-I	





11. Specifications for Indoor Wireless access point (GC-1 , TC-04) Qty 05		Your brand and Specifications
	Minimum Requirements	
Controller Compatibility	Unifi Controller	
Environment	Indoor	
WiFi Standards	802.11a/b/g Wi-Fi 4/Wi-Fi 5	
Throughput Speeds: 2.4 GHz	450 Mbps	
5 GHz	867 Mbps	
Ports	(1) Gigabit Ethernet	
PoE Mode	802.3af/A PoE & 24V PoE	
PoE Injector	required	

12. Photocopy Machine (TC-1) Qty-01		Your brand and Specifications
	Minimum Requirements	
Media Sizes	A3, A4, A5	
Media Type	Plain Paper, Envelopes	
Paper Supply	2 Trays (500 Sheets)	
Bypass Tray	Yes (100 Sheets A4, A3)	
Copying speed	50 CPM or more (A4)	
Continuous Copy	Upto 999 copies	
Toner Capacity	30,000 copies	
Media Sizes	A3, A4, A5	
Media Type	Plain Paper, Envelopes	
Memory Size	2 GB or more	
Hard Disk Size	250 GB or more	
Scanning Speed	75 SPM or more	
Scan File Formats	JPEG, PDF	
Scanning Features	Scan to File, USB	
Color Scanning	YES	
Print Resolution	600 x 600 DPI / 256 Levels	
Print Speed	50 PPM or more	
Warm-up Time	30 Seconds or less	
Operating System	Compatible windows 10	
Duplexing Automatic Document Feeder	Required	
Network Printing	Required	

**13- Specification for Monitor Wall Mount Bracket (FEST-10) Qty: 10**

Sample Attached

**14 - Podium Mic Stand (TC-1) Qty 01**

**15 - Network tester (TC-1) Qty 01**

**16 - Wireless Presenter (TC-3) Qty 03**

**17- Graphics card 2GB HDMI VGA DVI (CA-30) QTY 30**



**18 - Specification for Rugged Tablet (FEST 01) Qty 01**

Specification Attached

19. Specifications for USB Webcams (FA03) Qty: 03		Your brand and Specifications
	Minimum Requirements	
Model	Logitech C922 Pro or equivalent	
Resolution	720p at 30fps streaming	
Features	Automatic low-light correction	
Microphone	Built-in	
Clip	Universal clip (fixable on monitor)	

**20- Specifications for Sound Setup (Auditoriums) (KC-01)**

**Specifications for Microphone**

Hand-held Microphone Set (Qty: 4 sets)		Your brand and Specifications
	Minimum Requirements	
Model	Shure SLXD24D/SM58 or equivalent	
Type	Dynamic, Wireless Hand-held Microphone	
Working Range	160 feet (50 meters)	
Battery Type	Rechargeable	
Battery Life	9 hours of continuous use or more	
Input Impedance (@ 1 kHz)	>20 kΩ	
Gain Adjustment Range	-25 to +15 dB (in 1 dB steps)	
Maximum Input Level (Mic gain @ -16 dB)	-9 dBV	
Antenna Type	Dual transmit antennas	
Charge	using an networked charging station	
Charge connector	USB 3.0	
Required	Each set should contain 2 hand-held Microphones and a compatible receiver	
Warranty	1 year	





Pin Microphone Set (Qty: 4 sets)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>Shure SLXD124/85 or equivalent</b>	
<b>Type</b>	Pin microphone	
<b>Working Range</b>	160 feet (50 meters)	
<b>Battery Type</b>	Rechargeable	
<b>Battery Life</b>	9 hours of continuous use or more	
<b>Input Impedance (@ 1 kHz)</b>	>20 kΩ	
<b>Gain Adjustment Range</b>	-25 to +15 dB (in 1 dB steps)	
<b>Maximum Input Level (Mic gain @ -16 dB)</b>	-9 dBV	
<b>Antenna Type</b>	Internal, Spacial Diversity, Linear Polarization	
<b>Charge</b>	using an networked charging station	
<b>Charge connector</b>	USB 3.0	
<b>Required</b>	Each set should contain 2 Pin Microphones, 2 body packs and a compatible receiver	
<b>Warranty</b>	1 year	

Head Worn Microphone Set (Qty: 4 sets)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>Shure SLXD 14/SM35 or equivalent</b>	
<b>Mic Type</b>	Headworn (Headset)	
<b>Frequency response</b>	40 - 20 000 Hz	
<b>Sensitivity</b>	approximately -59 dBV/Pa	
<b>Polar pattern</b>	Omnidirectional	
<b>Features</b>	Adjustable to all head size Twist-proof microphone boom, can be attached to the left or right side should include a detachable cap as integral wind/popshield	
<b>Power Requirements</b>	Battery	
<b>USB/Lightning Connectivity</b>	1 X Micro-USB (Charging)	
<b>Display &amp; Indicators</b>	1 X LED (Battery Status, Sync)	
<b>Required</b>	Each set should contain 2 Head worn Microphones, 2 body packs and a compatible receiver	
<b>Warranty</b>	1 year	





Microphone Charging Station (Qty: 4 sets)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	Shure MXWNCS8 Networked Charging Station or equivalent	
<b>Charge Time</b>	2-3 hours	
<b>Network Interface</b>	10/100 Mbps Ethernet	
<b>number of ports</b>	8 or above	
<b>Power Requirement</b>	15 V DC @ 3.3 A maximum, supplied by external power supply (tip positive), rechargeable battery	
<b>Other features</b>	Overcharge protection, charge status indication	
<b>Warranty</b>	1 year	

12-Channel Analog Mixer (Qty: 1)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	Yamaha MG12XUK 12-Channel Analog Mixer or equivalent	
<b>Format</b>		
Analog/digital:	Analog	
Number of channels:	12	
Busses/groups:	1 Stereo Bus	
Aux sends:	1	
Powered:	No	
<b>Inputs</b>		
Total inputs:	12	
Mic preamps:	6	
XLR/TRS combo jacks:	6	
XLR only jacks:	0	
1/4" only jacks:	3 Stereo	
S/PDIF in:	0	
ADAT/optical in:	0	
RCA in:	2 Stereo	
AES/EBU:	0	
<b>Outputs</b>		
Total outputs:	5	
XLR out:	1 Stereo	
1/4" out:	2 Stereo/1 Send/1 Stereo Monitor/1 Phones	
S/PDIF out:	0	
ADAT/optical out:	0	
RCA out:	0	
AES / EBU:	0	



<b>Other Connectivity</b>		
Connections:	USB	
MIDI I/O:	No	
Headphone output(s):		1
Wi-Fi:	No	
Word-clock I/O:	No	
I/O expansion:	Not Specified	
<b>Onboard effects</b>		
Compression:	Yes	
Reverb:	Yes	
Delay:	Yes	
Chorus/flange:	Yes	
<b>Equalization</b>		
Type:	Physical	
EQ bands:		3
Master graphic:	No	
<b>Other</b>		
Width:	12.4"	
Height:	3.6"	
Depth:	11.7"	
Weight:	6.62 lb.	
Automation:	No	
Fader type:	Rotary	
Motorized faders:	No	
Bundled software:	Yes	
Rackmountable:	Yes	
<b>Warranty</b>	1 year	

Dual Channel Power Amplifier (Qty: 1)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>Yamaha PX5 Dual Channel 2x800W Lightweight Power Amplifier (220V-240V MODEL) or equivalent</b>	
<b>Output Power</b>	1kHz non-clip, 20ms burst, both channels driven	
8 Ohms	500W x 2	
4 Ohms	800W x 2	
2 Ohms	500W x 2	
8 Ohms - Power Boost Mode	800W x 1	
4 Ohms - Power Boost Mode	1400W x 1	
<b>Sampling Frequency Rate</b>	48kHz	
<b>A/D D/A Converters</b>	24-bit linear, 128 times over sampling	
<b>Total Harmonic Distortion</b>		
1kHz, 10W	0.1-percent	
1kHz, Half Power	0.3-percent	
<b>Frequency Response</b>	20Hz - 20kHz (+/-1.0dB, 1W, 8 Ohms)	
<b>S/N Ratio</b>	100dB (A-weighted, 8 Ohms, Gain set to +14dBu)	
<b>Crosstalk</b>	<-60dB (half power, 8 Ohms, 1kHz, Vol. max. input, 150 Ohm shunt)	
<b>Voltage Gain/Sensitivity</b>	8 Ohm, Volume max.	
Gain Setting - 32dB	32.0dB/+6.3dBu	





Gain Setting - 26dB	26.0dB/+12.3dBu	
Gain Setting - +4dBu	34.3dB/+4dBu	
Gain Setting - +14dBu	26.3dB/+14dBu	
<b>Voltage Gain/Sensitivity</b>	8 Ohm, Volume max., Power Boost mode	
Gain Setting - 32dB	34.0dB/+6.3dBu	
Gain Setting - 26dB	28.0dB/+12.3dBu	
Gain Setting - +4dBu	36.3dB/+4dBu	
Gain Setting - +14dBu	26.3dB/+14dBu	
<b>Maximum Input Voltage</b>	+24dBu	
<b>Input Impedance</b>		
Balanced	20 k Ohms	
Unbalanced	10 k Ohms	
<b>I/O Connectors</b>		
Speaker Output Ports	Neutrik SpeakON NL4 x 2, Binding Post x 2 pairs, 1/4" TS Jack x 2	
Line Input	XLR-3-31 x 2, 1/4" TRS Jack x 2	
Others	USB 2.0 Standard-A Connector (Female) (for Save/Load, Speaker Preset update, Firmware update with USB memory), AC Inlet x 1 (with AC cord clamp)	
Indicators	POWER x 1 (Green), ALERT x 1 (Red), USB x 1 (Green), PROTECT x 2 (Red), CLIP/LIMIT x 2 (Red), SIGNAL x 2 (Green) (Auto LED OFF feature)	
Processors	o Input Summing	
	o D-CONTOUR (FOH, MAIN, MONITOR, OFF)	
	o Delay (0 - 74ms)	
	o HPF/LPF (cutoff frequency 20Hz - 20kHz with polarity control)	
	o Speaker Processor (6-band PEQ + limiter + delay)	
Latency	1.5ms (analog input to speakers)	
Presets	8 x user amplifier presets (factory speaker presets for Yamaha passive speakers)	
<b>Protection</b>		
Load Protection		
Power Switch ON/OFF	Output Mute	
Output Voltage Protection	Over Voltage Limiter, user-configurable by wattage and speaker preset	
DC-Fault	Power Supply Shutdown (NOT restored automatically)	
Amplifier Protection		
Thermal	Output Limiter (restored automatically), Output Mute (restored automatically)	



Over Current	Output Mute (restored automatically)	
<b>Over Voltage</b>	Output Limiter (restored automatically)	
<b>Integrated Power Limit</b>	Output Limiter (restored automatically)	
<i>Power Supply Protection</i>		
<b>Thermal</b>	Output Limiter (restored automatically), Power Supply Shutdown	
<b>Over Voltage</b>	Power Supply Shutdown	
<b>Over Current</b>	Power Supply Shutdown	
<b>Amplifier Class</b>	Class-D, balanced output circuit (BTL)	
<b>Cooling</b>	16-step variable speed fan x 2, front to rear airflow	
<b>Power Requirements</b>	220V-240V, 50/60Hz	
<b>Power Consumption</b>		
<i>1/8 Max. Power, 4 Ohms</i>	230W (pink noise at all channels)	
<i>Idling, 4 Ohms</i>	55W	
<b>Dimensions</b>	480mm x 88mm x 388mm / 18-7/8" x 3-7/16" (2U) x 15-2/8" (W x H x	
<b>Weight</b>	6.9kg / 15.21lbs	
<b>Warranty</b>	1 year	

Accessories (Qty: 8 piece each)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>TS Cable</b>	
Lenght	6 ft	
Connection Type	TS to TS	
	<b>TRS Cable</b>	
<b>Model</b>	<b>TRS Cable</b>	
Lenght	6 ft	
Connection Type	TRS to TRS	
	<b>XLR Cable</b>	
<b>Model</b>	<b>XLR Cable</b>	
Lenght	6 ft	
Connection Type	XLR Male to XLR Female	
	<b>speakON Cable</b>	
<b>Model</b>	<b>speakON Cable</b>	
Lenght	30 Meters	
Connection Type	speakON to speakON	
	<b>RCA Cable</b>	
<b>Model</b>	<b>RCA Cable</b>	
Lenght	3 Meters	
Connection Type	RCA to RCA	
	<b>speakON to TS Cable</b>	
<b>Model</b>	<b>speakON to TS Cable</b>	
Lenght	30 Meters	
Connection Type	speakON to TS Cable	
	<b>RCA to AUX Cable</b>	
<b>Model</b>	<b>RCA to AUX Cable</b>	
Lenght	3 Meters	
Connection Type	RCA to AUX 3.5mm	





<b>Model</b>	<b>AUX Cable</b>	
Lenght	3 Meters	
Size	3.5mm	
Connection Type	AUX to AUX	

**21. Equipment for Conference Room and Seminar room**

Speaker (Qty: 8)	Your brand and Specifications
	<b>Minimum Requirements</b>
<b>Model</b>	BOSE FreeSpace FS2SE or equivalent
<b>Frequency Response (-3 dB)</b>	95 – 16,000 Hz
<b>Frequency Range (-10 dB)</b>	83 – 19,000 Hz
<b>Nominal Coverage Angle (H x V) (1 - 4 kHz)</b>	145° x 140°
<b>Nominal Coverage (H x V) (1 - 10 kHz)</b>	130° x 130°
<b>Power Handling, Long-term Continuous</b>	20 W
<b>Full-Range Driver</b>	1 x 2.25-inch woofer (57 mm)
<b>Nominal Impedance</b>	16 ohms (transformer bypass)
<b>Key Features</b>	<ul style="list-style-type: none"> <li>- Maintain consistent tonal quality with shared voicing across all FS models</li> <li>- Hear the best of both (music and voice) with transducers that offer clear voice reproduction and smooth response for background music</li> <li>- Customize systems with confidence using in-ceiling, surface-mount, and pendant-mount options, allowing for tailored mix-and-match installations</li> <li>- Ceiling mount</li> </ul>

Mixer Amplifier (Qty: 2)	Your brand and Specifications
	<b>Minimum Requirements</b>
<b>Model</b>	Australian Monitor ES250 or equivalent
<b>AMPLIFIER</b>	
<b>INPUT CHANNELS</b>	4 channels
<b>CONTINUOUS MAX POWER OUTPUT</b>	250W
<b>FREQUENCY RESPONSE 4Ω</b>	40Hz ~ 20kHz
<b>FREQUENCY RESPONSE 100V</b>	40Hz ~ 20kHz
<b>SIGNAL TO NOISE RATIO</b>	> 80dBr
<b>THD+N. 4Ω/100V. 1kHz</b>	< 0.2%
<b>OVERLOAD PROTECTION</b>	Temperature, Over/Under Voltage, Short
<b>PRE-AMPLIFIER</b>	
<b>INPUT/OUTPUT CONNECTORS</b>	Balanced XLR - MIC Input and Line Output Unbalanced stereo RCA - LINE input and Record Output
<b>INPUT SENSITIVITY</b>	MIC: 1.2mVrms RCA: 160mVrms
<b>LINE OUTPUT</b>	760mV @ 1kΩ
<b>RECORD OUTPUT</b>	220mV @ 10kΩ





<b>TONE CONTROLS</b>	Bass @ 100Hz ±12dB Treble @ 10kHz ±9dB	
<b>ADDITIONAL FEATURES</b>	12V Phantom Power 2 Channel Priority VOX muting 5 Tone Generator with volume control, Evac, Alert, Intruder, Bell, Chime	
<b>MISCELLANEOUS</b>		
<b>AC INPUT</b>	230Vac, 50-60Hz	
<b>AC POWER FACTOR</b>	> 0.8	
<b>MOUNTING</b>	2 RU	
<b>OPERATING TEMPERATURE</b>	0°C to 40°C (95% RH)	
<b>COOLING SYSTEM</b>	Fan assisted convection cooling	

**22. Equipments for Central administration auditoriums**

<b>Hand-held Microphone Set (Qty: 4 sets)</b>		<b>Your brand and Specifications</b>
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>Shure SLXD24D/SM58 or equivalent</b>	
<b>Type</b>	Dynamic, Wireless Hand-held Microphone	
<b>Working Range</b>	160 feet (50 meters)	
<b>Battery Type</b>	Rechargeable	
<b>Battery Life</b>	9 hours of continuous use or more	
<b>Input Impedance (@ 1 kHz)</b>	>20 kΩ	
<b>Gain Adjustment Range</b>	-25 to +15 dB (in 1 dB steps)	
<b>Maximum Input Level (Mic gain @ -16 dB)</b>	-9 dBV	
<b>Antenna Type</b>	Dual transmit antennas	
<b>Charge</b>	using an networked charging station	
<b>Charge connector</b>	USB 3.0	
<b>Required</b>	Each set should contain 2 hand-held Microphones and a compatible receiver	
<b>Warranty</b>	1 year	

<b>Pin Microphone Set (Qty: 4 sets)</b>		<b>Your brand and Specifications</b>
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>Shure SLXD124/85 or equivalent</b>	
<b>Type</b>	Pin microphone	
<b>Working Range</b>	160 feet (50 meters)	
<b>Battery Type</b>	Rechargeable	
<b>Battery Life</b>	9 hours of continuous use or more	
<b>Input Impedance (@ 1 kHz)</b>	>20 kΩ	
<b>Gain Adjustment Range</b>	-25 to +15 dB (in 1 dB steps)	
<b>Maximum Input Level (Mic gain @ -16 dB)</b>	-9 dBV	
<b>Antenna Type</b>	Internal, Spatial Diversity, Linear Polarization	
<b>Charge</b>	using an networked charging station	
<b>Charge connector</b>	USB 3.0	





Required	Each set should contain 2 Pin Microphones, 2 body packs and a compatible receiver	
Warranty	1 year	

Head Worn Microphone Set (Qty: 4 sets)		Your brand and Specifications
	Minimum Requirements	
Model	Shure SLXD 14/SM35 or equivalent	
Mic Type	Headworn (Headset)	
Frequency response	40 - 20 000 Hz	
Sensitivity	approximately -59 dBV/Pa	
Polar pattern	Omnidirectional	
Features	Adjustable to all head size Twist-proof microphone boom, can be attached to the left or right side should include a detachable cap as integral wind/popshield	
Power Requirements	Battery	
USB/Lightning Connectivity	1 X Micro-USB (Charging)	
Display & Indicators	1 X LED (Battery Status, Sync)	
Required	Each set should contain 2 Head worn Microphones, 2 body packs and a compatible receiver	
Warranty	1 year	

Microphone Charging Station (Qty: 4 sets)		Your brand and Specifications
	Minimum Requirements	
Model	Shure MXWNCS8 Networked Charging Station or equivalent	
Charge Time	2-3 hours	
Network Interface	10/100 Mbps Ethernet	
number of ports	8 or above	
Power Requirement	15 V DC @ 3.3 A maximum, supplied by external power supply (tip positive), rechargeable battery	
Other features	Overcharge protection, charge status indication	
Warranty	1 year	

12-Channel Analog Mixer (Qty: 1)		Your brand and Specifications
	Minimum Requirements	
Model	Yamaha MG12XUK 12-Channel Analog Mixer or equivalent	
Format		
Analog/digital:	Analog	
Number of channels:		12



Busses/groups:	1 Stereo Bus	
Aux sends:		1
Powered:	No	
<b>Inputs</b>		
Total inputs:		12
Mic preamps:		6
XLR/TRS combo jacks:		6
XLR only jacks:		0
1/4" only jacks:	3 Stereo	
S/PDIF in:		0
ADAT/optical in:		0
RCA in:	2 Stereo	
AES/EBU:		0
<b>Outputs</b>		
Total outputs:		5
XLR out:	1 Stereo	
1/4" out:	2 Stereo/1 Send/1 Stereo Monitor/1 Phones	
S/PDIF out:		0
ADAT/optical out:		0
RCA out:		0
AES / EBU:		0
<b>Other Connectivity</b>		
Connections:	USB	
MIDI I/O:	No	
Headphone output(s):		1
Wi-Fi:	No	
Word-clock I/O:	No	
I/O expansion:	Not Specified	
<b>Onboard effects</b>		
Compression:	Yes	
Reverb:	Yes	
Delay:	Yes	
Chorus/flange:	Yes	
<b>Equalization</b>		
Type:	Physical	
EQ bands:		3
Master graphic:	No	
<b>Other</b>		
Width:	12.4"	
Height:	3.6"	
Depth:	11.7"	
Weight:	6.62 lb.	
Automation:	No	
Fader type:	Rotary	
Motorized faders:	No	
Bundled software:	Yes	
Rackmountable:	Yes	
<b>Warranty</b>	1 year	




<b>Dual Channel Power Amplifier (Qty: 1)</b>	<b>Your brand and Specifications</b>
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	Minimum Requirements	
<b>Model</b>	<b>Yamaha PX5 Dual Channel 2x800W Lightweight Power Amplifier (220V-240V MODEL) or equivalent</b>	
<b>Output Power</b>	1kHz non-clip, 20ms burst, both channels driven	
8 Ohms	500W x 2	
4 Ohms	800W x 2	
2 Ohms	500W x 2	
8 Ohms - Power Boost Mode	800W x 1	
4 Ohms - Power Boost Mode	1400W x 1	
<b>Sampling Frequency Rate</b>	48kHz	
<b>A/D D/A Converters</b>	24-bit linear, 128 times over sampling	
<b>Total Harmonic Distortion</b>		
1kHz, 10W	0.1-percent	
1kHz, Half Power	0.3-percent	
<b>Frequency Response</b>	20Hz - 20kHz (+/-1.0dB, 1W, 8 Ohms)	
<b>S/N Ratio</b>	100dB (A-weighted, 8 Ohms, Gain set to +14dBu)	
<b>Crosstalk</b>	<-60dB (half power, 8 Ohms, 1kHz, Vol. max. input, 150 Ohm shunt)	
<b>Voltage Gain/Sensitivity</b>	8 Ohm, Volume max.	
Gain Setting - 32dB	32.0dB/+6.3dBu	
Gain Setting - 26dB	26.0dB/+12.3dBu	
Gain Setting - +4dBu	34.3dB/+4dBu	
Gain Setting - +14dBu	26.3dB/+14dBu	
<b>Voltage Gain/Sensitivity</b>	8 Ohm, Volume max., Power Boost mode	
Gain Setting - 32dB	34.0dB/+6.3dBu	
Gain Setting - 26dB	28.0dB/+12.3dBu	
Gain Setting - +4dBu	36.3dB/+4dBu	
Gain Setting - +14dBu	26.3dB/+14dBu	
<b>Maximum Input Voltage</b>	+24dBu	
<b>Input Impedance</b>		
Balanced	20 k Ohms	
Unbalanced	10 k Ohms	
<b>I/O Connectors</b>		
Speaker Output Ports	Neutrik SpeakON NL4 x 2, Binding Post x 2 pairs, 1/4" TS Jack x 2	
Line Input	XLR-3-31 x 2, 1/4" TRS Jack x 2	
Others	USB 2.0 Standard-A Connector (Female) (for Save/Load, Speaker Preset update, Firmware update with USB memory), AC Inlet x 1 (with AC cord clamp)	
Indicators	POWER x 1 (Green), ALERT x 1 (Red), USB x 1 (Green), PROTECT x 2 (Red), CLIP/LIMIT x 2 (Red), SIGNAL x 2 (Green) (Auto LED OFF feature)	
	Input Summing	
	D-CONTOUR (FOH, MAIN, MONITOR, OFF)	



<b>Processors</b>	Delay (0 - 74ms)	
	HPF/LPF (cutoff frequency 20Hz - 20kHz with polarity control)	
	Speaker Processor (6-band PEQ + limiter + delay)	
<b>Latency</b>	1.5ms (analog input to speakers)	
<b>Presets</b>	8 x user amplifier presets (factory speaker presets for Yamaha passive speakers)	
<b>Protection</b>		
<i>Load Protection</i>		
<b>Power Switch ON/OFF</b>	Output Mute	
<b>Output Voltage Protection</b>	Over Voltage Limiter, user-configurable by wattage and speaker preset	
<b>DC-Fault</b>	Power Supply Shutdown (NOT restored automatically)	
<i>Amplifier Protection</i>		
<b>Thermal</b>	Output Limiter (restored automatically), Output Mute (restored automatically)	
<b>Over Current</b>	Output Mute (restored automatically)	
<b>Over Voltage</b>	Output Limiter (restored automatically)	
<b>Integrated Power Limit</b>	Output Limiter (restored automatically)	
<i>Power Supply Protection</i>		
<b>Thermal</b>	Output Limiter (restored automatically), Power Supply Shutdown	
<b>Over Voltage</b>	Power Supply Shutdown	
<b>Over Current</b>	Power Supply Shutdown	
<b>Amplifier Class</b>	Class-D, balanced output circuit (BTL)	
<b>Cooling</b>	16-step variable speed fan x 2, front to rear airflow	
<b>Power Requirements</b>	220V-240V, 50/60Hz	
<b>Power Consumption</b>		
<i>1/8 Max. Power, 4 Ohms</i>	230W (pink noise at all channels)	
<i>Idling, 4 Ohms</i>	55W	
<b>Dimensions</b>	480mm x 88mm x 388mm / 18-7/8" x 3-7/16" (2U) x 15-2/8" (W x H x	
<b>Weight</b>	6.9kg / 15.21lbs	
<b>Warranty</b>	1 year	

Accessories (Qty: 8 piece each)		Your brand and Specifications
	<b>Minimum Requirements</b>	
<b>Model</b>	<b>TS Cable</b>	
Lenght	6 ft	
Connection Type	TS to TS	
<b>Model</b>	<b>TRS Cable</b>	
Lenght	6 ft	



Connection Type	TRS to TRS	
<b>Model</b>	<b>XLR Cable</b>	
Lenght	6 ft	
Connection Type	XLR Male to XLR Female	
<b>Model</b>	<b>speakON Cable</b>	
Lenght	30 Meters	
Connection Type	speakON to speakON	
<b>Model</b>	<b>RCA Cable</b>	
Lenght	3 Meters	
Connection Type	RCA to RCA	
<b>Model</b>	<b>speakON to TS Cable</b>	
Lenght	30 Meters	
Connection Type	speakON to TS Cable	
<b>Model</b>	<b>RCA to AUX Cable</b>	
Lenght	3 Meters	
Connection Type	RCA to AUX 3.5mm	
<b>Model</b>	<b>AUX Cable</b>	
Lenght	3 Meters	
Size	3.5mm	
Connection Type	AUX to AUX	

