



މަޢުލޫމާތު ސަރުކާރުގެ ޖުމްހޫރިއްޔާ

އިދުލަތުގެ ނަންބަރު: MNU-CA-PAMD/2022/48 16 ޖުލައި 2022 ގަވާއިދު: 16
 - ޖުލައި 2022 ގަވާއިދު: 16 - ޖުލައި 2022 ގަވާއިދު: 16
 10:30 ޖުލައި 2022 ގަވާއިދު: 16 ޖުލައި 2022 ގަވާއިދު: 16
 ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16 ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16
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1. ޖުލައި 2022 ގަވާއިދު: 16 ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16
2. ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16 ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16
3. ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16 ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16

ނަންބަރު/ޖުލައި 2022 ގަވާއިދު: 16	ނަންބަރު/ޖުލައި 2022 ގަވާއިދު: 16	#
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	1
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	2
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	3
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	4
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	5
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	6
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	7
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	8
✓	ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ޖުލައި 2022 ގަވާއިދު: 16	9

ANNEX 1

1 - Specification for Projector Screen (KC 04) Qty: 04

Sample Attached

	Minimum Requirements	Your brand and Specifications
Supported Resolution:	1080P / 720p	
Screen Type:	Manual	
Mount Type:	Wall / Ceiling	
Aspect Ratio:	16:09	
Viewable Diagonal in.:	142"	
Viewable Width in.:	130.8"	
Viewable Height in.:	86.9"	
Surface Color:	White	
Front/Rear Projection:	Front	
Projection Surface:	Matte White	

2 - Specification for Projector Screen (GC 04) Qty: 04

	Minimum Requirements	Your brand and Specifications
Width - Height	8ft x6ft	
	Motoried Projector Screen	

3- Specifications for Projector (FA-2, FEST-4) Qty: 06

	Minimum Requirements	Your brand and Specifications
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		
HARDWARE		
Sensor	1/3" CMOS /CCD	
Progressive scanning	Required	
Mega Pixel	3MP	
IR Distance	50ft	
Night Vision	Required	
Power input	DC12V and PoE (802.3af)	
AUDIO VIDEO ENCODING		
Video Compression	H.264 / MPEG4	
Frame rate	Up to 30fps @ 1080p	
Privacy Mask	4 Regions	
DATA TRANSMISSION AND STORAGE		
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	
Audio/Video Inputs/Outputs		
IP Video Input		16
Video Interface	HDMI, VGA	
Recording Resolution	1080p	
Output Resolution	1080p/60Hz	
Decoding and Playback		
Decoding Formats	H.264, H.265, H.264+, H.265+	
Synchronous Playback	16-Channel	
HDD		
HDD Included	2 x 8TB SATA (Surveillance Hard Drive)	
Interface		
Network Interface	1 x RJ45 1000M	
Camera Compatibility		
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

	Minimum Requirements	Your brand and Specifications
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

	Minimum Requirements	Your brand and Specifications
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

	Minimum Requirements	Your brand and Specifications
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) Qty:1

1.Specifications for Microphone

Hand-held Microphone Set (Qty: 4 sets)

	Minimum Requirements	Your brand and Specifications
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	



2. Pin Microphone Set (Qty: 4 sets)

	Minimum Requirements	Your brand and Specifications
Model	Shure SLXD124/85 or equivalent	
Type	Pin 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	Internal, Spacial Diversity, Linear Polarization	
Charge	using an networked charging station	
Charge connector	USB 3.0	
Required	Each set should contain 2 Pin Microphones, 2 body packs and a compatible reciever	
Warranty	1 year	

3. Head Worn Microphone Set (Qty: 4 sets)

	Minimum Requirements	Your brand and Specifications
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 reciever	
Warranty	1 year	



4. Microphone Charging Station (Qty: 4 sets)

	Minimum Requirements	Your brand and Specifications
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	

5. 12-Channel Analog Mixer (Qty: 1)

	Minimum Requirements	Your brand and Specifications
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	
Inputs		
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	
Outputs		
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	



Other Connectivity		
Connections:	USB	
MIDI I/O:	No	
Headphone output(s):		1
Wi-Fi:	No	
Word-clock I/O:	No	
I/O expansion:	Not Specified	
Onboard effects		
Compression:	Yes	
Reverb:	Yes	
Delay:	Yes	
Chorus/flange:	Yes	
Equalization		
Type:	Physical	
EQ bands:		3
Master graphic:	No	
Other		
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	
Warranty	1 year	

6. Dual Channel Power Amplifier (Qty: 1)

	Minimum Requirements	Your brand and Specifications
Model	Yamaha PX5 Dual Channel 2x800W Lightweight Power Amplifier (220V-240V MODEL) or equivalent	
Output Power	1kHz non-clip, 20ms burst, both channels driven	
<i>8 Ohms</i>	500W x 2	
<i>4 Ohms</i>	800W x 2	
<i>2 Ohms</i>	500W x 2	
<i>8 Ohms - Power Boost Mode</i>	800W x 1	
<i>4 Ohms - Power Boost Mode</i>	1400W x 1	
Sampling Frequency Rate	48kHz	
A/D D/A Converters	24-bit linear, 128 times over sampling	
Total Harmonic Distortion		
<i>1kHz, 10W</i>	0.1-percent	
<i>1kHz, Half Power</i>	0.3-percent	
Frequency Response	20Hz - 20kHz (+/-1.0dB, 1W, 8 Ohms)	



S/N Ratio	100dB (A-weighted, 8 Ohms, Gain set to +14dBu)	
Crosstalk	<-60dB (half power, 8 Ohms, 1kHz, Vol. max. input, 150 Ohm shunt)	
Voltage Gain/Sensitivity	8 Ohm, Volume max.	
<i>Gain Setting - 32dB</i>	32.0dB/+6.3dBu	
<i>Gain Setting - 26dB</i>	26.0dB/+12.3dBu	
<i>Gain Setting - +4dBu</i>	34.3dB/+4dBu	
<i>Gain Setting - +14dBu</i>	26.3dB/+14dBu	
Voltage Gain/Sensitivity	8 Ohm, Volume max., Power Boost mode	
<i>Gain Setting - 32dB</i>	34.0dB/+6.3dBu	
<i>Gain Setting - 26dB</i>	28.0dB/+12.3dBu	
<i>Gain Setting - +4dBu</i>	36.3dB/+4dBu	
<i>Gain Setting - +14dBu</i>	26.3dB/+14dBu	
Maximum Input Voltage	+24dBu	
Input Impedance		
<i>Balanced</i>	20 k Ohms	
<i>Unbalanced</i>	10 k Ohms	
I/O Connectors		
<i>Speaker Output Ports</i>	Neutrik SpeakON NL4 x 2, Binding Post x 2 pairs, 1/4" TS Jack x 2	
<i>Line Input</i>	XLR-3-31 x 2, 1/4" TRS Jack x 2	
<i>Others</i>	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	<ul style="list-style-type: none"> 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)	



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

7. Accessories (Qty: 8 piece each)

		Your brand and Specifications
		Minimum Requirements
Model		TS Cable
Lenght	6 ft	
Connection Type	TS to TS	
Model		TRS Cable
Lenght	6 ft	
Connection Type	TRS to TRS	



Model	XLR Cable	
Lenght	6 ft	
Connection Type	XLR Male to XLR Female	

Model	speakON Cable	
Lenght	30 Meters	
Connection Type	speakON to speakON	

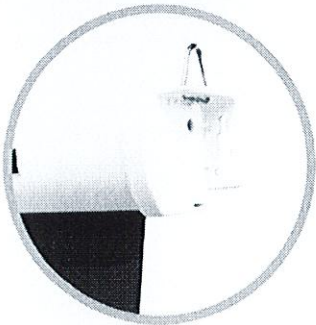
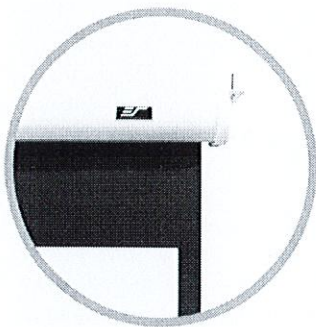
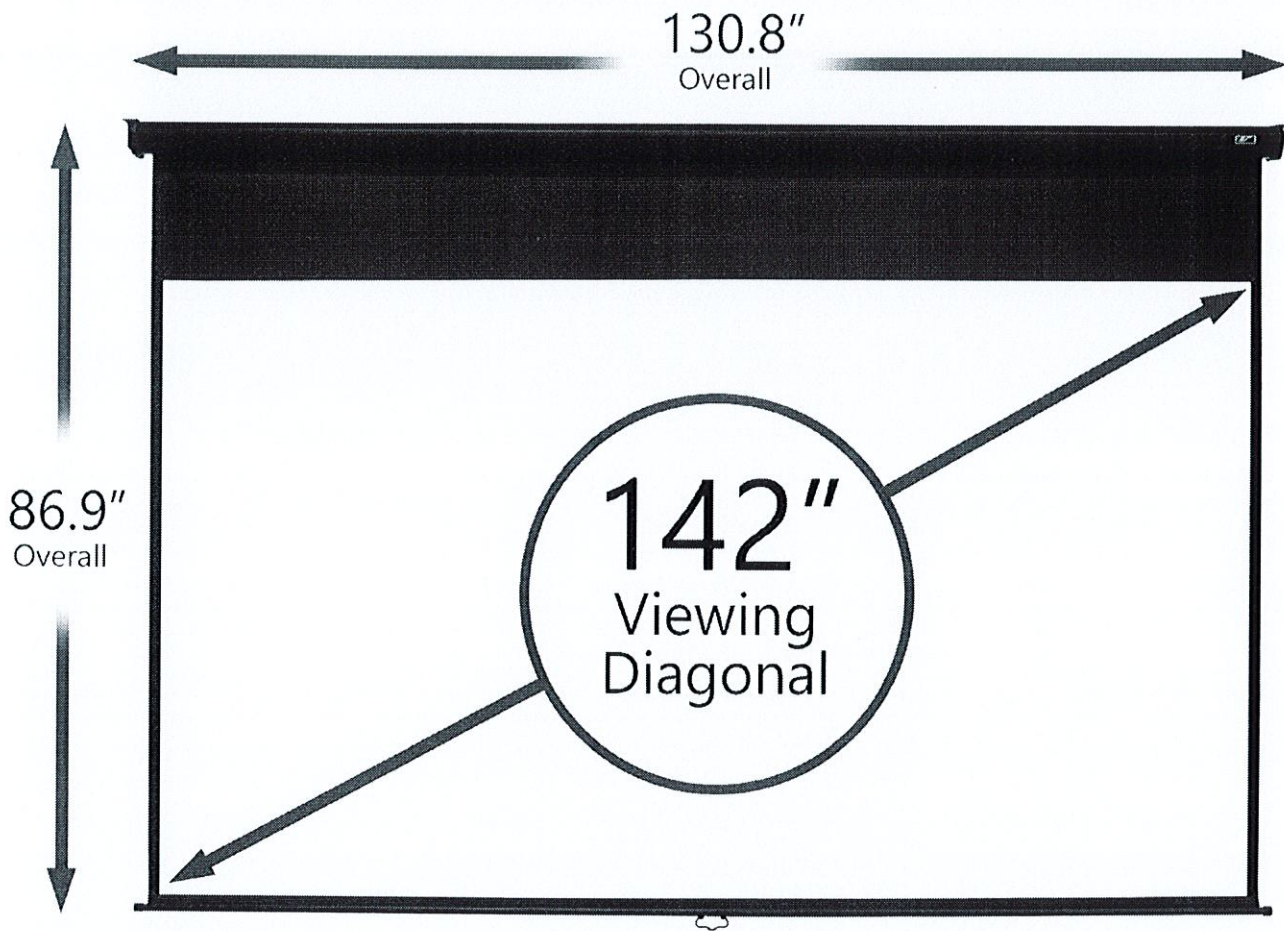
Model	RCA Cable	
Lenght	3 Meters	
Connection Type	RCA to RCA	

Model	speakON to TS Cable	
Lenght	30 Meters	
Connection Type	speakON to TS Cable	

Model	RCA to AUX Cable	
Lenght	3 Meters	
Connection Type	RCA to AUX 3.5mm	

Model	AUX Cable	
Lenght	3 Meters	
Size	3.5mm	
Connection Type	AUX to AUX	





Rugged tablet
Specification

Purpose	Tablet should be of rugged quality and should support ArcGIS pro application smoothly
Operating System	(Android / IOS / Windows 11 Pro)
Mobile Computing Platform	Platform options: Intel® Core™ i7 1.8GHz Max. 4.9GHz - 8MB Intel® Smart Cache Or Apple M1 Chip Or 2 GHz Octa-core
Display	10" - 13"
Memory Storage	8GB (if applicable) 128 GB minimum
Keyboard	Optional with touchpad and keyboard or keyboard only
Pointing Device	Touchscreen - Capacitive multi-touch screen - Optional: Dual mode touchscreen (multi-touch and digitizer)
Expansion Slots	Smart card reader x 1 support up to 256 (if applicable)
I/O Interface	webcam Audio in/out DC in Jack USB 3.2 Gen 2 Type-C x 1 / Thunderbolt SIM card slot x 1
Communication Interface	Wi-Fi Bluetooth LTE mobile broadband



Power

AC adapter
battery x 2 (if applicable)
battery swappable technology (if applicable)

Rugged Features

High quality Rugged bumper (3 years warranty)
Vibration & 4ft (1.2m) drop resistant

Accessories

Optional:
Carry bag
Multi-Bay charger (Dual-Bay)
Office dock with AC adapter
Digitizer pen
Rugged keyboard

