



**Minimum requirements**

**Item 1: Wall Mount Speaker**

Quantity: 10

Specification	Description / Features
Rated Power	30W
Rated Input	100V
Sensitivity	90±2dB

**Item 2: Wall Mount Speaker**

Quantity: 04

Specification	Description / Features
Rated Power	40W
Rated Input	100V
Sensitivity	91±2dB

**Item 3: Digital PA Amplifier**

Quantity: 04

Specification	Description / Features
Power Source	220 - 240 V, 50/60Hz
Rated Output	240W
Power Consumption	48W (AC operation at 1/8 maximum output without clip)
Frequency Response	50 - 20,000 Hz, ±3 dB
Input	* MIC 1-3: -60 dB*, 600 Ω, balanced, 3P XLR * AUX 1-2: -20 dB*, 10 kΩ, unbalanced, RCA pin jack
Output	* Speaker out: Balanced (floating) * High impedance: 42 Ω (100 V) * Rec out: 0 dB*, 600 Ω, unbalanced, RCA pin jack
Phantom Power	DC +21 V
Tone Control	* Bass: ±10 dB at 100 Hz * Treble: ±10 dB at 10 kHz
Muting: MIC 1	Mutes other input signals by 0-30 dB attenuation
Indicator	Power LED, Peak LED, Signal LED

**Item 4: Speaker Cable**

Quantity: 02

Specification	Description / Features
Type	HIFI speaker Cable
Core	2 pair (oxygen free copper)
Length	100m
Size	1.3mm



### Item 5: Insulated & Sheathed HIFI Speaker Cable

Quantity: 04

Specification	Description / Features
Type	Insulated & Sheathed HIFI Speaker Cable
Core	2 cores (oxygen free copper)
Length	100m
Size	1.5mm

Note: transparent cable not acceptable

### Item 6: Stereo Mixer

Quantity: 03

Specification	Description / Features
No Of Channels	10 channels
Input Channels	Mono MIC/LINE 4, Stereo LINE 3
Output Channels	Stereo out 2, Phones 1, Monitor out 1, Aux (FX)send 1
Bus	Stereo 1, AUX (FX): 1
Equalizer (EQ)	* HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving * MID: Gain: +15 dB/-15 dB, Frequency: 2.5 kHz peaking * LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving
Peak Led	CH1 – CH4 (LED turns on when post EQ signal reaches 3 dB below clipping (+17 dBu))
Stereo Level Knob	2x7 -segment LED meter [PEAK (+17), +10, +6, 0, -6, -10, -20 dB]
Internal Digital Effect	24 programs
Usb Audio	2 IN / 2 OUT (USB Audio Class 2.0 compliant) Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit
Frequency	Input to Stereo out (+0.5 dB/-1.0 dB (20 Hz to 48 kHz), refer to the nominal output level @1 kHz, GAIN knob: Min)
Equivalent Input Noise	-128 dBu (Mono Input Channel, Rs: 150 $\Omega$ , GAIN knob: Max)
Residual Output Noise	-102 dBu (Stereo Out, Stereo Level knob: Min)
High-Pass Filter (HPF)	Per Channel
Phantom Power Voltage	+48 V
Control Type	Buttons & Knob (Note: slider type switch not acceptable)

### Item 7: Wireless Mic System

Quantity: 01

Specification	Description / Features
Wireless Receiver	Power Requirements: 12–15 V DC supplied by external power supply Output Impedance: XLR connector: 200 $\Omega$ 6.35 mm (1/4") connector: 50 $\Omega$ Audio Output Level: XLR connector: -27 dBV (into 100 k $\Omega$ load) 6.35 mm (1/4") connector: -13 dBV (into 100 k $\Omega$ load) RF Sensitivity: -105 dBm for 12 dB SINAD, typical Image Rejection: >50 dB, typical
Bodypack Transmitter	Audio Input Level: gain max -16 dBV maximum min (0 dB): +10 dBV maximum Gain Adjustment Range: 26 dB Input Impedance: 1M $\Omega$ RF Transmitter Output: 10 mW Power Requirements: 2 LR6 AA batteries



Handheld Transmitter      Audio Input Level: gain 0dB -20 dBV maximum  
 -10dB: -10 dBV maximum  
 Gain Adjustment Range: 10 dB  
 RF Transmitter Output: 10 mW

**Item 8: Jacks**

Item Name	Quantity	Description / Features
XLR Jack	10	XLR Male Jack
	10	XLR Female Jack
RCA Jack	20	RCA Male Jack
6.5mm Jack	10	6.5mm Mono Male Jack

**Item 9: Dual-Channel Digital Wireless Handheld Microphone System with 2 (two) Handheld mic**

Quantity: 01

Warranty: Minimum 1 year

Specification	Description / Features
Product Year	After 2021
Wireless Technology	Digital UHF
Number of RF Channel Frequencies	1860
Included Transmitters	2x Handheld
Diversity	True Digital Diversity
RF Frequency Band	J52: 558 to 602 MHz / 614 to 616 MHz
RF Bandwidth	46 MHz
Frequency Step Size	25 kHz
RF Channel Scanning	Auto-Scan
Max Operating Range	328' / 100 m
Max Transmitters per Band	32
Built-In Recorder	No
Mobile App Compatible	Functionality: Remote Control
OS Compatibility	Windows 10 or Later macOS 10.14 or later
Sample Rate/Resolution	24-Bit
Latency	3.2 ms
Dynamic Range	120 dBA (Typical)
Modulation	Proprietary

**Receiver Specs**

Receiver Type	Tabletop / Rackmount
Mounting Options	Rackmount (with Included Hardware)
Rackmount Size	1 RU (Full Rack)
Antenna	2x 1/4 Wave External, BNC (Rear-Mount)
Number of Audio Channels	2
Built-In Microphone	No
Audio I/O	2x XLR 3-Pin Male Balanced Mic/Line Output 2x 1/4" TRS Female Balanced Output (Locking)
Gain Range	0 to +21 dB (3 dB Steps)
Pad	30 dB
Audio Output Level	-18 to +42 dB (Balanced, Unbalanced)



Phantom Power Protection	On 1/4", XLR Outputs
Frequency Response	20 Hz to 20 kHz +1/-2 dB (Dependent on Mic)
Network I/O	1x RJ45 (10/100 Mb/s)
Network Protocols	DHCP, Manual IP
Impedance	1/4" Output: 1.3 Kiloohms (Balanced) 670 Ohms (Unbalanced) XLR Output: 400 Ohms (Balanced) 150 Ohms (Balanced)
Adjacent Channel Isolation	>70 dB
Spurious	Rejection: >75 dB
Power Requirements	AC/DC Power Adapter
AC/DC Power Adapter	15 VDC at 600 mA, Center-Positive (Included)
Input Power	100 to 240 VAC, 50 / 60 Hz
Display & Indicators	LCD (AF Level, Channel, Frequency, Group, RF Level, Transmitter Battery Status)
Housing	Steel

#### Transmitter specs

Transmitter Type	Handheld
RF Output Power	1 / 10 mW
Built-In Microphone	Yes
Audio Input Level	8.2 dBV
Gain Range	0 +21 dB
Signal Processing	No
Frequency Response	20 Hz to 20 kHz (Dependent on Mic)
Sync Method	IR
Antenna	Internal Single-Band Helical
Power Requirements	Battery
Battery Type	2x AA
Approx. Battery Life	8 Hours
Display & Indicators	LCD (Battery Status, Channel, Group, Power)
Housing	Aluminum

#### Microphone Specs

Microphone Type	Handheld Capsule
Color	Black
Sound Field	Mono
Capsule	Dynamic
Polar Pattern	Supercardioid
Frequency Range	50 Hz to 16 kHz
THD	1%
Sensitivity	-54.5 dBV/Pa
CMRR	No
Diameter	1.97" / 50 mm



**Item 10: 1400W 12" Active Loudspeaker PA System Kit (Two-Speaker Pair)**

Quantity: 01

Warranty: Minimum 1 year

Specification	Description / Features
Configuration	Active 2-Way
Enclosure Type	Bass-Reflex Loudspeaker
Total Power Capacity	1400 W Peak
HF Driver	1 x 1" / 25.4 mm Titanium Dome Compression Driver
LF Driver	1x 12" / 304.8 mm Woofer
Wireless Connectivity	Bluetooth
Enclosure Type	Bass-Reflex Loudspeaker
Total Power Capacity	1400 W Peak
Amplifier Class	Class-D
Frequency Response	47 Hz to 20 kHz -10 dB
Maximum SPL	128 dB SPL
Audio I/O	2x Combo XLR-1/4" TRS Balanced/Unbalanced Mic/Line Input 1x 1/8" / 3.5 mm TRS Female Unbalanced Line Input 1x XLR 3-Pin Male Balanced Line Output
Wireless Connectivity	Bluetooth
AC Input Power	Universal: 100 to 240 VAC, 50 / 60 Hz
AC Power I/O	1x IEC
Power Consumption	75 W
Mounting	1 x Pole Socket (Bottom) M10 Fly Point

**Item 11: Speaker Stands with Tripod Base and Carrying Case**

Quantity: 02

Specification	Description / Features
Type	Speaker Stands
Material of Construction	Aluminum
Height Adjustment Range	Per Stand: 3.8 to 7.5' / 1.1 to 2.3 m
Mount Size	1.375" / 34.9 mm 1.5" / 38.1 mm
Load Capacity	Per Stand: 120 lb / 54.4 kg

**Item 12: Speaker Pole for KLA181 Subwoofer**

Quantity: 02

Specification	Description / Features
Type	Subwoofer Pole
Mount Size	1-3/8"
Shaft Length	36" / 914.4 mm





**Item 13: XLR Male to XLR Female Microphone Cable**

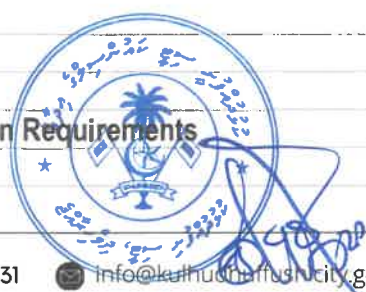
Quantity: 04

Specification	Description / Features
Connector 1	1x XLR 3-Pin Male Straight
Connector 2	1x XLR 3-Pin Female Straight
Cable Length	25m
Wire Gauge	24 AWG
Shielded	Yes
Color	Black

**Item 14: Network Switch 24-port, Layer 3 PoE switch**

Quantity: 02

Specification	Description / Features
<b>Mechanical</b>	
Enclosure material	SGCC steel
<b>Hardware</b>	
Management interface	Ethernet In-Band
Networking interface	(24) GbE RJ45 ports (2) 1/10G SFP+ ports
PoE interface	(16) PoE/PoE+ (Pins 1, 2+; 3, 6-) (8) 60W PoE++; PoE/PoE+ (Pins 1, 2+; 3, 6-) / PoE++ (Pair A 1, 2+; 3, 6-) (Pair B 4, 5+; 7, 8-)
Total non-blocking throughput	44 Gbps
Switching capacity	88 Gbps
Forwarding rate	65.472 Mpps
Power method	Universal input, 100—240V AC, 50/60 Hz USP RPS DC input, 52V DC, 7.69A / 11.5V DC, 2.61A
Power supply	AC/DC, internal, 450W
Supported voltage range	100—240V AC
Max. power consumption	50W (Excluding PoE output)
Total available PoE	400W
Max. PoE wattage per port by PSE	PoE+: 32W PoE++: 64W
Voltage range PoE mode	PoE: 44—57V PoE+: 50—57V
ESD/EMP protection	Air: ± 16kV, contact: ± 12kV
CM display	(1) 1.3" touchscreen
Button	Factory reset
Shock and vibration	ETSI300-019-1.4 Standard
Operating temperature	-5 to 40° C (23 to 104° F)
Operating humidity	10 to 90% noncondensing
Certifications	CE, FCC, IC
<b>LEDs</b>	
System	Status
Ethernet	PoE Speed/link/activity
SFP+	Link/activity
RPS	Status
<b>Application Requirements</b>	
Supports	UniFi Network



### Item 15: 5-Port managed Gigabit Ethernet switch

Quantity: 5

Specification	Description / Features
<b>Interfaces</b>	
Management interface	Ethernet In-Band
Networking interface	(5) GbE RJ45 ports
Total non-blocking throughput	5 Gbps
Switching capacity	10 Gbps
Power method	1) USB Type C, 5V (1) PoE/PoE+, 44—57V DC, 0.05—0.04A
Power supply	5V, 1A power adapter* *Only single-unit packages include the 5V, 1A USB-C power adapter.
Supported voltage range	USB Type C: 4.7—5.3V DC PoE/PoE+: 44—57V DC
ESD/EMP protection	Air: ± 16kV, contact: ± 12kV
Button	Factory reset
Ambient operating temperature	-5 to 45° C (23 to 113° F)
Ambient operating humidity	10 to 90% noncondensing
Certifications	CE, FCC, IC
<b>Switching Features</b>	
Layer 2 features	Port isolation Storm control Port mirroring Multicast / broadcast rate limiting Flow control Jumbo frames Egress rate limit
<b>Additional Requirements</b>	
Supports	UniFi Network

### Item 16: Wireless HDMI Transmitter and Receiver

Quantity: 5

Specification	Description / Features
<b>Transmitter</b>	
Video Input	HDMI
Video Output	HDMI
Video Format	1080p 23.98/24/25/29.97/30/50/59.94/60fps 1080i 50/59.94/60fps 720p 50/59.94/60fps 480p 59.94/60fps
Audio	44.1KHz/48KHz 16bit/24bit PCM
Antenna Connector	4 RP-SMA Male
Latency	<0.06 seconds (Camera latency not included)
OLED	1.3 inch OLED
Transmission Power	17~20dBm
Transmission Range	1200 feet (no obstacles, no interference)
APP	iOS8.0 or above/Android 7.0 or above
<b>Receiver</b>	





Video Output	HDMI
Video Format	1080p 24/25/30/50/60fps 1080i 50/60fps 720p 50/60fps 480p 60fps
Audio	44.1KHz/48KHz 16bit/24bit PCM
Antenna Connector	4 RP-SMA Male
Latency	<0.06 seconds (Camera latency not included)
OLED	1.3 inch OLED
Transmission Power	17~20dBm
Transmission Range	1200 feet (no obstacles, no interference)
APP	iOS8.0 or above/Android 7.0 or above

