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10	Fuse 1A	15
11	Fuse 2A, 3A, 4A, 5A, 6A (30 Each)	150
12	Miscellaneous items attached at Page: 7/7.	
Note: Detail specifications of above items are placed at Page: 3-7.		

Network AV Receiver

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Quantity	Three (03)
Brand	ONKYO or Equivalent
Product Name	7.2-Channel Network A/V Receiver
Product Number	TX-NR747
Key Features	• THX®-Certified Amp Quality • DTS:X™ and Dolby Atmos® Support • 175 W per Channel • Hi-Current Amp Design for Authentic Sound Reproduction • HDMI® 8 In / 2 Out Including 1 Front (4K UltraHD / HDCP 2.2) • Bluetooth Audio / Wi-Fi® with Spotify and AirPlay • DSD 5.6 MHz, FLAC 192 kHz/24-bit Hi-Res Audio Capable • 384 kHz/32-bit Hi-Grade DAC • AccuEQ Room Acoustic Calibration
Power Supply	AC 220~240V~, 50/60 Hz AC 120 V~, 60 Hz (Taiwan Model or equivalent)
Power Consumption	710 W
Dimensions	(W x H x D) 435 x 175 x 379 mm
Weight	11.5 kg
Signal-to-Noise Ratio	100 dB (Line, IHF-A) 80 dB (Phono MM, IHF-A)
Other Features	• Independent Crossover Adjustment for Each Channel (40/50/60/70/80/90/100/120/150/200 Hz) - Firmware Updates via Ethernet and USB • RIHD (Remote Interactive Over HDMI) for System Control • Preprogrammed RI (Remote Interactive) Remote Control
Connection features	• 8 HDMI Inputs (1 Front/7 Rear) and 2 Outputs • USB Port • Mass Storage Class USB Memory Playback Capability • 2 Component Video • 3 Composite Video Inputs • 3 Digital Audio Inputs (2 Optical and 1 Coaxial) • 8 Analog Audio Inputs • Phono Input for Turntable Connection • 2 Parallel Subwoofer Pre-Outs • Location Numbered Speaker Terminal
Processing features	• HDMI for 4K/60 Hz Video, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby Atmos®, Dolby® TrueHD, DTS:X™, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC • AK4458 384 kHz/32-bit DAC (8 Channels x 1) • Dual 32-bit Digital Signal Processing Engines • 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
Warranty	3 Years parts & Labour
All necessary cables, bundled software and accessories must be supplied in original packing	

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HDMI Optical Isolator

Quantity	Nine (09)
Brand	MuxLab or equivalent
Product code	HDMI Optical Isolator Kit 500462
Main Features	• Complete optical isolation between source and display. • Unidirectional HDMI communication. • No return signaling. • Fixed EDID configuration. • Up to 984ft (300m) @ 1080p via one (1) LC multimode fiber
Environment	HDMI 1.3a and DVI-D
Devices	DVD, plasma, projectors, monitors, TV, PC, laptops, servers supporting HDMI.
Transmission	Unidirectional. Transparent to the user
Bandwidth	340 MHz
Signals	HDMI 1.3a protocol
Connectors	TX Side: One (1) HDMI receptacle. One (1) LC Fiber connector (output only). One (1) 2.1mm power connector. RX Side: One (1) HDMI receptacle. One (1) LC Fiber connector (input only). One (1) 2.1mm power connector. Note: HDMI and Fiber cables not included.
Maximum Distance Based on a maximum length of 6.6 ft (2 m) of HDMI cable per end.	480i/p: 984ft (300m) 720p, 1080i: 984ft (300m) 1080p 8-bit: 984ft (300m) 1080p 12-bit deep-color: 984ft (300m) 4K @ 24,25, 30Hz 984ft (300m)
Cable	One (1) Multimode fiber 50/125 µm OM3 cable required
Power Supply	Two (2) 110-240V/5VDC power supply with interchangeable blades
Power Consumption	Transmitter: 1.35 Watt Receiver: 1.15 Watt
Dimensions	3.27" x 1.97" x 0.75" (83 x 50 x 19 mm)
Weight	1.0 lb (0.45 kg)
Compliance	Regulatory: FCC Class A, CE, RoHS
Warranty	3 years
All necessary cables, bundled software and accessories must be supplied in original packing	

LAN Switch

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Quantity	Twelve (12)
Brand	Huawei
Ports	24(minimum)
Speed	1 Gigabit managed Layer 3 Switch
Fiber Port	4 SFP Slots with Transceivers
VLAN	Supported
Warranty	3 years local(minimum)
All necessary cables, bundled software and accessories must be supplied in original packing	

IP Camera

Quantity	Three (03)
Brand	SV3C SV D02POE 1080P Dome POE Security Camera Or Equivalent
All necessary cables, bundled software and accessories must be supplied in original packing	

Bar Speaker

Quantity	Nine (09)
Brand	Samsung HW-MS750 or Equivalent
All necessary cables, bundled software and accessories must be supplied in original packing	

Circuit Breakers

Item	Quantity
Quantity	15
Company	Schneider or equivalent
Current Rating	50A
Current limit	10kA
No. of phases	1P
Model	Electric Acti 9iC60H MCB Mini Circuit Breaker, Curve C

Switch Boards

Quantity	40
Company	RS PRO or equivalent
RS Stock Number	787-1216
Current Rating	13A
Type	G
No. of phases	1P
Model	White 2 Gang Electrical Sockets , One Pole

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Electric Wire-1

Quantity	20 Bundles, 100m per Bundle
Company	RS Pro or equivalent
RS Stock Number	775-6110
Current Rating	6 A
Voltage Rating	300V/500V
Type	3 Core 0.75 mm ² Mains Power Cable, White Polyvinyl Chloride PVC Sheath, 3183Y H05VV-F
Conductor Material	Copper
Conductor Resistance	26Ω/Km
Operating Temperature Range	+70 °C

Electric Wire-2

Quantity	3 Bundles, 50m per Bundle
Company	Lapp or equivalent
Cross Sectional area	10mm ²
RS Stock Number	721-0699
Current Rating	59 A
Voltage Rating	600V
Type	3 Core Mains Power Cable, Black Polyvinyl Chloride PVC Sheath, 1KV, NYY-J
Conductor Material	Copper
Operating Temperature Range	+50 °C
Fire Behavior	Fire Retardant

Fuse

Current rating	Type	RS Stock Number	Quantity
1A	Auxiliary contact circuit trip	125-1543	15
2A	Auxiliary contact circuit trip	125-1545	30
3A	Shunt release circuit trip	791-2815	30
4A	Mini CB	791-3338	30
5A	Mini CB	125-1455	30
6A	Mini CB	849-6507	30
Voltage Rating	220V		
Maximum Temperature	150 °C		
Material Type	Ceramic		

Miscellaneous items

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Item	Quantity
DIN Rails (1m x 35mm x 7.5mm), RS Pro, RS-467-416	30
Phoenix Contact, Terminal Blocks with screw termination, UTI35,800V, RS-684-3077	30
Phoenix Contact, CLIPFIX 15 End Clap for DIN Rail Terminal, 50 in each pack, RS-804-0157	2 pack
TULT Cable marker White, RS-692-6632	5 units
Snap On Cable Marker, Pre-Printed 0→9, 0.8-2.2mm Dia. Range, RS-182-5732	1
Nylon Cable Ties 100x2.5mm (bag of 100), RS-178-462	1
Nylon Cable Ties 300x4.8mm (bag of 100), RS-233-487	2
RS PRO Black Nylon Double Locking Cable Tie, 510mmx9mm, RS-666-4694	1
Helletmanntyton, Yellow Nylon cable Tie, 750x13mm, RS-451-2923	4
Sorting Strip, Tripp Lite Power strip PDU121EC (Digi-Key part number TL270-ND)	3
Schneider Electric Self-adhesive cable trucking RS number (RS-599-718)	12
Cable Thimbles	
a) Insulated Crimp Blade terminal Blue bag of 100 (RS-534-654) b) Insulated Crimp Blade terminal Red bag of 100 (RS-452-631) c) Insulated Crimp Blade terminal Yellow bag of 100 (RS-613-9665) d) Insulated Crimp Ring terminal Yellow bag of 100 (RS-613-9413) e) Insulated Crimp Ring terminal Red bag of 100 (RS-534-216) f) Insulated Crimp Ring terminal Blue bag of 100 (RS-534-569) g) Insulated Crimp Spade terminal Blue bag of 100 (RS-534-626) h) Insulated Crimp Spade terminal Red bag of 100 (RS-534-266) i) Insulated Crimp Spade terminal Yellow bag of 100 (RS-534-496) j) Ring Connector Panduit Crop A8-38R-C bag of 100 (Digi Key number 298-20570-ND)	1 Bag Each
Contactors	
1. Schneider Electric Tesys D, 3 Pole Contactor, 3NO, 38 A, 440 V ac Coil, LC1D386BD, RS-844-6785	3
2. Schneider Electric Tesys D, 3 Pole Contactor, 3NO, 38 A, 220 V ac, 18.5 kW, LC1D38M7C, RS-744-7421	3
3. Schneider Electric Acti 9, 2 Pole Contactor, 2NO, 40 A, 230 V ac Coil A9C20842, RS-791-2966	3
4. Schneider Electric Acti 9, 1 Pole Contactor, 1NO, 16 A, 230 V ac Coil, A9C22712, RS-791-2893	3
ON/OFF Switches	
1. Emergency Stop Switch, RS PRO DPDT, IP65, RS number (RS-745-2442)	6
2. ZF Illuminated Double Pole Single Throw (DPST), Latching Rocker Switch Panel Mount, (RS-706-4341)	10
3. Arcoelectric Double Pole Single Throw (DPST), Latching Rocker Switch Panel Mount, (RS-129-426)	10
4. 3 + N Pole Panel Mount Changeover Switch, 3NO, 20 A, 6.5 kW, IP65, (RS-103-8470)	6
5. Schaffner Male C14 IEC filter panel mount 5x20mm 6A 250V AC (RS-455-8929)	25