

List of equipment with specification for new Tele Studio

Nr.	Description of materials	QTY	Detailed Specification	Unit Price
1	Studio camera with lens and control report (zoom, iris)	2	Blackmagic Studio Camera Effective sensor size 12.48 mm x 7.02 mm Focus:Auto focus. Peak mode. Lens mount Active MFT mount Lens control Iris, focus, zoom on supported lenses. Dynamic range 13 stops. Screen size Display type TFT-LCD 10.1 inches Controls Push button controls for menu navigation. Mounting options 2 x 3/8 inch tripod mount 4 x 1/4 inch 20 point UNC thread mount on top of the camera, 3 x 1/4 inch 20 point UNC thread mount left right side of the camera	

Sony PXW Z190

Sensor (Type) : 1/3-type backlit Exmor R tri-CMOS sensor

Effective Pixels : 3840 (H) x 2160 (V)

Optical system: F1.6 prism system

Built-in optical filters: Neutral density filters

OFF : CLEAR

1 : 1/4ND.

2: 1/16ND

3: 1/64 ND

Linear variable ND filter (approx. 1/4ND to 1/128ND)

Sensitivity (2000 lx, 89.9% reflectance): F11 (standard) (1920 x 1080/59.94p mode, high sensitivity mode)

F12 (standard, 1920 x 1080/50p mode, high sensitivity mode)

Minimum illumination: 0.01 lx (typical) (1920 x 1080/59.94i mode, F1.6, +30 dB gain, high sensitivity mode, with 64 frame accumulation)

S/N ratio: 57 dB (Y) (typical)

Horizontal resolution: 2000 TV lines or more (3840 x 2160p mode) 1000 TV lines or more (1920 x 1080p mode)

Shutter speed: 1/24 s to 1/8,000 s

Slow Shutter Speed (SLS): 2, 3, 4, 5, 6, 7, 8, 16, 32 and 64 frame accumulations

Slow & Quick Motion function:

2	Camera	2	<p> XAVC Long 2160P: 1-60 fps 1080P: 1-60 fps 720P : 1-60 fps White Balance: Preset (3200K), Memory A, Memory B/ATW Gain: -3, 0, 3, 6, 9, 12, 15, 18 dB, 30 dB (Turbo Gain on), AGC Gamma Curve: Selectable Audio input: 3-pin XLR (female) (x2), Line/Mic/Mic +48 V selectable LINE: +4, 0, -3 dBu/10 kΩ MIC: -80 dBu to -30 dBu/3 kΩ (0 dBu = 0.775 Vrms) Audio output: Built-in USB multi/micro port (x1) SDI output: BNC (x1), selectable 3G/HD/SD modes Timecode input: BNC (x1) (switchable to TC output) 0.5 V to 1.8 Vp-p, 3.3 kΩ Timecode output: BNC (x1) (switchable to TC input) 1 Vp-p, 75 Ω </p> <p> USB: USB device, multi/micro USB port (x1) Host: USB 3.0/2.0 type A port (x1) USB 2.0 Type A (x1) Headphone output: Stereo mini-jack (x1) -16 dBu 16 Ω Speaker output: Monaural Output: 500 mW DC input: DC jack Remote control: Stereo mini jack (Φ 2.5 mm) HDMI output: HDMI® connector (type A) Wired LAN: RJ-45 (x1) 1000BASE-T, 100BASE-T, 10BASE-T Built-in microphone Omnidirectional stereo electret condenser microphone </p>
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3	Flash GODOX AD600Pro AD600 Pro TTL Flash de Studio GN87 2.4G HSS1/8000s avec 2600mAh Li- ION Batterie Flash Extérieur Strobe Compatible pour Canon E-TTL II Nikon	1	GODOX AD600Pro AD600 Pro TTL Studio Flash GN87 2.4G HSS 1/8000s with 2600mAh Li- ION Strobe Compatible Outdoor Flash Battery for Canon E-TTL II Nikon	
4	Tripod	2	ESDDI VT-60 Product Features: Fluid head + tripod - Color: Black - Material: aluminum - Weight: 3.95 kg - Sections: 3 dimensions (folded): 88 cm - Minimum height: 82 cm - Maximum height: 163 cm.	
5	Dolly	1	Brand Andoer Item package Dimensions LxWxH 43.4x14x136 centimeters Package weight 1.74 kilograms	
6	Rails	1	E-Image Material: aluminum alloy Slider length: 5000mm (10x,950mm each) Width: adjustable but 80mm maximum Finish: film coated Carrying case: 1000mm × 360mm × 170mm Rolling weight: 50kg maximum Weight: 13kg	
7	Light Arri 650 Watt Plus Fresnel Tungsten Light	5	Product Dimensions: 10 x 12 x 15 inches Item Weight: 9 pounds ASIN: B010GVC1UO Date First Available: June 27, 2015 Manufacturer: Arri	
8	Light 600W Outdoor LED Flood Light, LED Spotlight, Outdoor LED Lamp	5	Brand : Bapro Manufacturer: Bapro LEADER MACHINERY Product dimensions (L x W x H) : 53.4 x 34 x 6 cm ; 5.38 kilograms IP protection): IP66 Color : Warm White Special features : Waterproof Batteries included ? No Battery(ies) Required: No Energy Label: A++ Power: 600 Watts Power : 600 Watts Item weight : 5.38 kg	

9	Light stand Neewer® PRO 100% Metal Max Height 305 cm Reflector with 1,22m Arm and 2 Handle Head Stand/120 cm Adjustable Support	2	Brand : Neewer Model : Neewer Item Package Dimensions L x W x H : 134.6 x 27.9 x 10.2 centimeters Package Weight : 8.94 Kilograms Item Dimensions L x W x H : 10.2 x 25 x 134.6 centimeters Part number : 10087101@@797	
10	Stabilizer Ronin-M - Professional Image Stabilizer for DSLR Camcorders, 3 Axis Gimbal, for SLR / Mirrorless Cameras, Professional and Cinematography Shooting, Self Balancing	1	Brand: Dji Style: Ronin-M Model Color: Black Optical zoom: 1x Image stabilization: Yes Battery type: Lithium-polymer Compatible devices : Digital film/ Camera Item Package Dimensions L x W x H : 48.4 x 32 x 29.2 centimeters Weight : 6.38 Kilograms Item Dimensions L x W x H : 21 x 42 x 50 centimeters Item Weight : 1 grams Min Shutter Speed : - seconds	
11	UPS	1	APC Smart-UPS 2200	
12	Single Stand for 71" Carbon Fiber DSLR Camcorders with Swivel Head and Base tripod base	2	Brand : Cayer Reference : CF34DVH4 Color : 71 Inch Carbon Fiber Dimensions L x W x H : 76.8 x 16.2 x 12 centimeters Weight : 2.84 Kilograms	
13	Wireless lapel microphone	4 paires de micro	Brand : SENNHEISER Rugged all-in-one wireless system with great flexibility for broadcast quality sound broadcast quality Easy to use and quick to set up Range: up to 100 meters/330 feet Up to 8 hours of battery life Frequency range: A (516 - 558 MHz)	
14	Enregistreur Zoom	1	Model ZOOM H8 12-track field recorder - 1x removable XY microphone, 4x XLR inputs and 2x XLR combo	

15	Micros baladeurs sans fil	2sets	<p>Brand: Sennheiser</p> <p>Wireless handheld microphone system (EW 135P G4-A)</p> <p>Product dimensions (L x W x H): 40.5 x 17.3 x 7.3 cm; 450 grams Battery type: Alkaline</p> <p>Weight: 450 g</p>	
16	Assembly computer	1	<p>Imac Pro 5K</p> <p>Display: 27-inch (diagonal) Retina 5K display, 5120 x 2880 pixel resolution with support for one billion colors</p> <p>Processor: Intel Xeon W at 3 GHz Turbo Boost up to 4.5 GHz</p> <p>Memory: 32GB memory configurable to 64 or 128GB 1TB SSD configurable to 2 or 4TB SSD</p> <p>Graphics and video performance: 1080p HD Face Time Camera, Support for Simultaneous native resolution on the built-in 1 billion color display and : Two external displays with 5,120 x 2,880 pixel resolution (5K) at 60 Hz with 1 billion color support, or four external displays with 3,840 x 2,160 pixel resolution (4K UHD) at 60 Hz with 1 billion color support, or four external displays with 4096 x 230 pixel resolution (4K) at 60 Hz with support for millions of colors; Support for Extended Desktop and Video Copy modes; Thunderbolt 3 digital video output, Native DisplayPort output via USB-C, Thunderbolt 2, HDMI, DVI, and VGA outputs supported using adapters (sold separately)</p> <p>Charging and expansion</p> <p>10 Gigabit Ethernet; Nbase-T Ethernet with support for 1 Gbit, 2.5 Gbit, 5 Gbit, and 10 Gbit data rates using an RJ-45 connector; UHS-II compliant SDXC card reader; Four USB-A ports; Four Thunderbolt 3 (USB-C) ports with support for: DisplayPort 1.2, Thunderbolt (up to 40 Gbps), USB 3.1 Gen 2 (up to 10 Gbps)</p> <p>Wireless: Wi-Fi, 802.11ac Wi-Fi connectivity, IEEE 802.11a/b/g/n compatible, Bluetooth 5.0 wireless technology</p> <p>What's in the box</p> <p>iMac Pro, Magic Keyboard with sidereal gray numeric keypad and sidereal gray Magic Mouse 2</p> <p>Height: 51.6 cm Width: 65 cm Thickness: 20.3 cm</p> <p>Weight: 9.7 kg</p>	

17	Laptop computer	1	<p>16" Macbook Pro Display: 16.0-inch (diagonal) LED-backlit display with IPS technology; 3072x1920 native resolution at 226 pixels per inch with million-color support</p> <p>Processor: 9th Generation Intel Core i7 6-core processor with 2.6 GHz and Turbo Boost to 4.5 GHz or 2.3 GHz 9th Generation Intel Core i9 6-core processor with Turbo Boost to 4.8 GHz Processor: 9th Generation Intel Core i7 6-core processor with 2.6 GHz and Turbo Boost to 4.5 GHz or 2.3 GHz 9th Generation Intel Core i9 6-core processor with Graphics and video performance: AMD Radeon Pro 5300M with 4GB of GDDR6 memory and automatic graphics switching, Intel UHD Graphics 630 Charging and Expansion: Four Thunderbolt 3 (USB-C) ports with support for: Charging, DisplayPort, Thunderbolt (up to 40 Gbps), USB 3.1 Gen 2 (up to 10 Gbps)</p> <p>Wireless: 802.11ac Wi-Fi wireless connectivity; IEEE 802.11a/b/g/n compatible Bluetooth 5.0 wireless technology</p> <p>Box Contents: 16-inch MacBook Pro, 61W USB-C Power Adapter, USB-C Charging Cable (2m)</p> <p>Height: 1.62 cm Width: 35.79 cm Thickness: 24.59 cm</p> <p>Weight: 2 kg</p>	
18	Broadcast Laptop Computer	1	<p>HP Spectre X360</p> <p>Operating system: Windows 10 Professional 64</p> <p>Processor: Intel® Core™ i7-8565U (1.8 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Processor family: 8th generation Intel® Core™ i7 processor</p> <p>Chipset: Intel® HM370</p> <p>Memory: 16 GB DDR4-2400 SDRAM (2 x 8 GB) Transfer rates up to 2400 MT/s</p> <p>Storage: 512 GB PCIe® NVMe™ M.2 SSD Optical drive not included Graphics: NVIDIA® GeForce® MX150 card (2 GB dedicated GDDR5 memory) Audio: Bang & Olufsen; four speakers; HP Audio Boost 2.0</p> <p>Display: 39.6 cm (15.5) 4K IPS glass micro edge display with edge-to-edge WLED multi-touch backlighting</p>	

			<p>Wireless Connectivity: Intel® Wireless-AC 9560 802.11b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo (Gigabit Wi-Fi® speed) MU-MIMO compatible; Miracast compatible</p> <p>Ports: 1 USB 3.1 Gen 2 Type-C™ port with Thunderbolt™ 3 (40 Gbps transfer speed, Power 3.0, DisplayPort™ 1.2, HP Sleep and Charge); 1 USB 3.1 Gen 2 Type-C™ (10 Gbps transfer speed, 3.0 power, DisplayPort™ 1.2, HP Sleep and Charge); 1 USB 3.1 Gen 2 Type-A port (HP Sleep and Charge); 1 Smart Pin power adapter; 1 HDMI 2.0a port; 1 combined headphone/microphone jack 1 microSD card reader</p> <p>Webcam: HP Wide Vision FHD IR camera with built-in dual input digital microphone</p> <p>Accessories included: Protective case, HP ENVY Urban 39,62 cm (15,6") backpack 3KJ72AA and HP Spectre HP 700 rechargeable mouse (Turbo Silver) 3NZ71AA</p> <p>Keyboard: Large, dark ash silver, chiclet-style backlit keyboard with HP Imagepad with multi-touch gesture support; Precision touchpad support</p> <p>Security Management: Fingerprint reader</p> <p>Sensors: Accelerometer; Gyroscope; eCompass Security: Antivirus installed and enabled</p>	
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19	NETGEAR ReadyNAS 626X Storage Server - NAS Server - 6 Bays - 36 - Laptop	1	<p>Brand : Netgear Type : NAS Server</p> <p>Host Connectivity: Gigabit Ethernet / 10 Gigabit Ethernet Installed Devices / No. of Modules: 6 (installed) / 6 (maximum) Processor: Intel® Xeon D-1521 Quad Core 2.4 GHz Server Processor Memory: 8 GB DDR4 ECC</p> <p>Drive Bays: 6</p> <p>Drive Types Supported: 2.5 or 3.5" SATA/SSD Hot swappable drives : Yes</p> <p>Power supply: Internal 200 W: input 100-240 V AC, 50/60 Hz Maximum power consumption: 173 W</p> <p>Power consumption: 96 W</p> <p>Power Consumption: (Wake-on-LAN): 800 mW Power consumption: (Power off): 420 mW 2-line LCD display: Yes</p> <p>Touch navigation : Yes</p> <p>Fan size (mm) : 120</p> <p>Dimensions W x L x H (mm): 288 x 192 x 259 Weight (kg): 7.97</p> <p>MTBF @ 40 °C (hours) : 54852 Bluetooth dongle : Yes</p> <p>Operating systems : Microsoft Windows Server 2008 R2/2012 Storage operating system : ReadyNAS OS 6.5</p> <p>Accessories : RTRAY05 : Replacement/additional 3.5 or 2.5" disk tray</p>	
20	Dictaphone	2	Sony ICD-EX370	
21	Neewer CN-160 160 LED video light for Canon, Nikon, Pentax, Panasonic, SONY, Samsung and Olympus digital SLR cameras	2	<p>Brand: Neewer</p> <p>Model Number: 40004082 Color: CN-160 Video Light</p> <p>Product dimensions (L x W x H): 41.15 x 17.02 x 8 cm; 242.95 grams Power: 9.6 Watts</p> <p>Auto power off function : no</p> <p>Item weight: 243 g</p>	

22	ATEM Television Studio Pro 4K Video Mixer	1	<p>Total number of video inputs: 8 Total outputs: 12</p> <p>Total number of auxiliary outputs: 1 SDI rates: 1.5G, 3G, 6G, 12G.</p> <p>Total audio inputs: 2 x XLR. 1 x microphone. Total audio outputs: 1 x headphones.</p> <p>SDI video inputs: 8 x 10 bit HD / UHD switchable. Built-in 2-channel audio. HDMI video inputs: None</p> <p>Reference inputs: Tri-Sync or Black Burst.</p> <p>Video input synchronization: On all 8 inputs.</p> <p>Frame rate and format converters: On all 8 inputs. SDI program outputs: 9 x 10 bit HD / UHD switchable. SDI audio outputs: 2 channels integrated into the SDI output.</p> <p>Total number of multiple views: 1 SDI Multi View outputs: 1</p> <p>HDMI Multi View Outputs: 1</p>	
23	SlingStudio Livestream video production and wireless switch	2	<p>Weight: 4 pounds</p> <p>Dimensions: 12 x 8 x 5 inches</p> <p>A / V inputs: Local: 1 x HDMI type A 1 x 3.5 mm analog stereo audio Wireless: up to 10 via Wi-Fi network</p> <p>A/V outputs: 1 x HDMI Type C</p> <p>Other I/O: 1 x SD card slot 1 x USB Type-C Wireless: 1 x 5 GHz 802.11 ac 1 x dual band 2.4 / 5 GHz 802.11 ac</p> <p>Video Recording: Format: H.264, high profile, 4:2:0 Resolution: 1080p60 up to 30 Mb/s 1080p30 up to 16 Mb/s 720p60 up to 16 Mb/s 720p30 up to 4 Mb/s Audio Recording: Format: 2-channel, 16-bit/48 kHz, up to 320 kb/s</p> <p>Live streaming: CDN: Facebook Live, YouTube Live Maximum bit rate: 8 Mb / s</p> <p>Power source: Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 4.2 A</p> <p>Operating Temperature: 32-95° F / 0-35° C Humidity: 0-95%, non-condensing</p> <p>Dimensions: 7.9 x 5.6 x 3.5 inches / 20 x 14 x 9 cm Weight: 1.4 pounds / 653 g</p> <p>Packaging information Package weight: 3.6 lbs</p> <p>Box dimensions (LxWxH): 11.35 x 7.35 x 4.9 inches</p>	

24	Triptych whiteboard with folding panels - lacquered - 240 x 100 cm	1	<p>Triptych whiteboard - folding wall chart</p> <ul style="list-style-type: none"> - 5 usable sides, 2 folding wings with strong metal hinges - Lacquered sheet steel surface for magnets and dry erase markers - Elegant silver anodized aluminum frame - Solid rounded profile combined with gray corners - Fitted with a folding metal tray that holds the board in a closed position - Comfortable fixing: the adjustment to a perfectly horizontal position is achieved by <p>by two adjustable eccentric pins after hanging</p> <ul style="list-style-type: none"> - including mounting material - usable area: approx. 3,6 m² - dimensions of the closed board: (W)120 x (H)100 cm open: (W)240 x (H)100 cm - wing dimensions: (W)60 x (H)100 cm 	
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25	Black magic mixer	1	<p>Zoom with multi-view</p> <p>Total number of video inputs 21, of which 20 are active.</p> <p>Total number of video outputs 16</p> <p>Total number of auxiliary outputs 6</p> <p>SDI data rate</p> <p>270Mb, 1.5G, 3G, 6G.</p> <p>Total number of audio inputs 2 x XLR. 2 x RCA.</p> <p>Total number of audio outputs</p> <p>2 x XLR program, 2 x XLR monitor.</p> <p>Timecode connection</p> <p>1 x XLR input and 1 x XLR output.</p> <p>Reference input</p> <p>Tri-Sync or Black burst.</p> <p>Synchronized video input on all 20 inputs.</p> <p>SDI video inputs</p> <p>20 x switchable to SD/HD/Ultra HD 4K 10 bit 2 channel audio integrated.</p> <p>HDMI video inputs</p> <p>1 x HDMI Type A. Switchable to SD/HD/Ultra HD 4K 10 bit. 2 channels of integrated audio.</p> <p>SDI audio outputs</p> <p>2 channels integrated to the SDI output on all outputs.</p> <p>SDI program outputs</p> <p>3 x switchable to SD/HD/Ultra HD 4K 10 bit.</p> <p>HDMI program outputs</p> <p>1 x HDMI Type A, switchable to SD/HD/Ultra HD 4K 10 bit.</p> <p>Program outputs SDI down-converted</p> <p>1 x 10-bit (Ultra HD 4K to HD).</p>	
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			<p>SDI preview outputs 1 x switchable to SD/HD/Ultra HD 4K 10 bit. Quantity of Multi Views 2 x SDI and 2 x HDMI, can be used simultaneously. Multi View outputs 2 x SDI and 2 x HDMI. Control Panel Connection Ethernet supports 10/100/1000 BaseT standards. Allows direct connection between the panel and the chassis, or via the network. Tally output Added to Blackmagic Design's GPI and Tally Interface product via Ethernet connection. (Product sold separately). Computer interface 1 x USB 2.0 port</p>	
26	VTR Hyper deck recorder black magic	1	<ul style="list-style-type: none"> • 1RU File-Based Video Recorder • Records Uncompressed 10-bit 4:2:2 • Records Compressed in ProRes / DNxHD • Records on Two 2.5" SSDs • 1 x 3G-SDI Input, 3 x Outputs • 1 x HDMI Input, 1 HDMI Output • Outputs are Always Active • Front Panel Button, Jog Wheel & RS-422 • Multi-Display Integrated LCD 	
27	Professional Sound Mixing Console	1	16 canaux, planche De mixage DJ Mixer FX16ii	
28	Analog and digital video distributor SD/ HD	1	<p>1x10 Composite and SDI signal distribution Unbalanced and balanced stereo mono.</p>	
29	Analog audio distributor	1	<p>Unbalanced/Balanced audio distributor 1 mono input to 16 mono outputs 1 stereo input to 8 stereo outputs Bypass function Output levels, individually adjustable Built-in tone generator for fine tuning</p>	

30	Micro ties Sony	4	URX-P03D/PRO System	
31	Micro cardio		This kit includes two UTX-B03 beltpack transmitters, two ECM77BMP lapel microphones, one URX-P03D two-channel portable receiver and one SMAD-P3D	
32	SD/analog converter	1	<p>SDI video input: Switchable between SD, HD and 6G-SDI</p> <ul style="list-style-type: none"> - SDI video output: Automatically matches SD, HD and 6G-SDI video input - Analog video: NTSC, PAL and S-Video from SD-SDI input and HD component from 6G-SDI input - Analog Audio: 2 channels of professional analog balanced audio with standard 1/4" jack connections - Digital Audio AES/EBU: 2 channels of professional balanced digital audio with standard 1/4" jack connections - Multiple data rate support: Automatic detection of 6G-SDI, HD, or standard definition - Upgrades and configuration: Via high-speed USB 2.0 (480 Mb/s) - SDI Compliance: SMPTE 292M, SMPTE 259M, SMPTE 296M, ITU-R BT.656 and ITU-R BT.601 - SDI video sampling: 4:2:2 - SDI audio sampling: standard 48 kHz television and 24 bits - SDI color accuracy: 10 bits - SDI auto-switching: automatic between SD-SDI, HD-SDI and 6 Gbit SDI Support - 625/25 PAL, 525/29.97 NTSC <p><u>Support formats HD:</u></p> <ul style="list-style-type: none"> - 720p50, 720p60, 720p59.94 - 1080i50, 1080i59.94, 1080i60 - 1080PsF23.98, 1080Ps24, 1080PsF25, 1080PsF29.97, 1080PsF30 - 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30 <p><u>Support formats 2K:</u></p> <ul style="list-style-type: none"> - 2048x1080PsF23.98, 2048x1080p23.98, 2048x1080PsF24, 2048x1080p24, 2048x1080PsF25, 2048x1080p25 <p><u>Support formats 4K:</u></p> <ul style="list-style-type: none"> - 3840x2160p23.98, 3840x2160p24, 3840x2160p25, 3840x2160p29.97, 3840x2160p30 - 4096x2160p24 - Espace colorimétrique analogique: YUV - Précision couleur analogique: 4:2:2 - Conversion de formats: Down-conversion HD 	

33	HDMI /HD converter	1	LiNKFOR HDMI to SDI Converter with Power Supply Adapter HD 1080P Video Audio Converter Support HDMI to SDI Monitor to SD-SDI HD-SDI 3G-SDI for Home Theater Camera	
34	Analog to SDI converter	1	Automatic HD / SD detection, redundant input, AES/EBU and analog audio as standard on 6.35mm jack, SDI 3Gb/s standard.	
35	Installation video cables	10		
36	Bnc packages	15	of 50 ohm evil	
37	Audio cable		10 installation reels	
38	XLR plug	20	XLR Female	
39	Sound plug	20	XRLM MALE	
40	Tabletop microphone stands	10	The circular base is equipped with rubber buffers to dampen vibrations. The steel tube can be unscrewed from the base and has a 3/8th inch thread. High stability due to the high mass of the cast steel base Unscrewable steel tube 5/8th inch thread.	
41	Cardioid microphone	3	SHURE SM 58	
42	Multipair cable	2	16 inputs 12/4 Neutrik XLR with stagebox and associated cabling (30M)	
43	Video adapter	10		
44	Screens	2	Sony HDI/ SD	
45	Amplified studio speaker	2	Sony with Bass frequencies	
46	Headphones	2		

