











Specifications for Live Streaming Setup-

ANNEX 01.

1. Camcorder (Qty: 2)

Your brand and Specifications	
Minimum Requirements	
Canon XF405 or equivalent	
1.0-type CMOS	
RGB-Primary Colour Filter	
15x Optical (30x Advanced Zoom in Full HD)	
Via Zoom Rocker Switch, Lens Control ring or Remote Control	
Selectable. Variable or constant speed. Fast, Normal or Slow speed.	
Manual via Lens Ring, Dual Pixel CMOS AF, Face Only, Face Priority	
Dual Pixel CMOS AF, Contrast AF	
SD/SDHC/SDXC card	
MP4 Recording: 150 Mbps: 55 Minutes. 35 Mbps: 240 Mins. XF-AVC	
Recording: 160 Mbps: 50 Minutes. 45 Mbps: 185 Minutes.	
FAT32/exFAT	



	<p>MP4: 3840x2160 (150 Mbps) / 1920x1080 (35/17 Mbps) / 1280x720 (8/4 Mbps), NTSC: 59.94P / 29.97P / 23.98P, PAL: 50.00P/25.00P depending on recording resolution selected. XF-AVC:</p> <p>NTSC: 3840 x 2160: 59.94P / 29.97P / 23.98P PAL: 3840x2160: 50.00P/25.00P</p>
	<p><b>SDI: NTSC:</b> 1920x1080 59.94P YCC422 10bit /1920x1080 29.97P YCC422 10bit, PAL: 1920x1080 50.00P YCC422 10bit / 1920x1080 25.00P YCC422 10bit,</p> <p><b>HDMI:</b> NTSC: 3840x2160 59.94P YCC420 8bit / 1920x1080 59.94P YCC422 10bit PAL: 3840x2160 50.00P YCC420 8bit / 1920x1080 50.00P YCC422 10bit</p>
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	SD card
	SDI Output: 3G-SDI Level A and B, selectable. BNC Connector, HDMI Output: Enabled
	Canon Battery Pack BP-828 (supplied) BP-820 (Optional)
	8.4W (MP4, 3840 x 2160, 50.00P Panel in use)



2. High-end Laptop (Qty: 1)	Minimum Requirements	Your brand and Specifications
Model	Razer Blade 15 (2022) or equivalent	
CPU	8th Generation Intel Core i7-8750H 6 Cores / 12 Threads 2.2 GHz with Turbo Boost Speed up to 4.1GHz 9MB Cache Mobile Intel HM370 Chipset	
GPU	Upto Nvidia RTX 3080 Ti, 8 GB GDDR6 VRAM, Optimus Technology	
RAM	16 GB or 32GB DDR4 or DDR5	
Screen Type	FHD 360Hz, QHD 240Hz or 4K 144Hz	
screen resolution	1080 x 1920 pixels	
Storage	512 GB SSD	
Battery	Built-in 80 Wh rechargeable lithium-ion polymer battery	
Dimension	15.6 inches or above	
USB	USB 3.1 Gen 1 (USB-A) x3, Thunderbolt 3 (USB-C), Mini DisplayPort 1.4 output	
HDMI	HDMI 2.0B output	
VGA	Windows Hello built-in IR HD webcam (1MP / 720P)	
Audio	Built-in Stereo speakers 3.5mm headphone/microphone combo port Built-in array microphone Dolby Atmos support 7.1 Codec support (via HDMI)	
Memory card reader	Yes	
Ethernet	Gigabit Ethernet Supported	
Wireless LAN	Intel Wireless-AC 9260 (IEEE 802.11a/b/g/n/ac)	
Bluetooth	Enabled	
Backlight (display)	Enabled	
Os	Windows 10 Home 64 bit	





**3. Live Production Switcher (Qty: 1)**

	Minimum Requirements	Your brand and Specifications
Model	ATEM Television Studio HD or equivalent	
Total Video Inputs	8	
Total Outputs	8	
Total Aux Outputs	1	
Total Audio Inputs	2 x XLR	
Total Audio Outputs	None, embedded audio only.	
SDI Video Inputs	4 x 10-bit SD/HD switchable. 2 channel embedded audio.	
HDMI Video Inputs	4 x HDMI type A, 10-bit SD/HD switchable. 2 channel embedded audio.	
SDI Program Outputs	5 x 10-bit SD/HD switchable.	
HDMI Program Outputs	None	
SDI Audio Outputs	2 Ch embedded into SDI output.	
Audio Mixer	10 input x 2 channel mixer. Selectable On/Off/Audio-FollowVideo. Level and Peak metering. Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.	
Multi View Monitoring	1 x 10 Views.	
Multi View video standard	HD	
Control panel	Built in control panel. Software control panel included. Supports optional broadcast panel.	
Control panel connection	Ethernet supports 10/100/1000 BaseT	
Supported OS	macOS 10.12 Sierra, macOS High Sierra 10.13 or later; Windows 8.1 or 10 and higher	
Power requirements	Power Supply: 1 x internal 110 - 240V AC, Uses 40W	



**4. SDI & HDMI Video Capture Device (Qty: 1)**

	Minimum Requirements	Your brand and Specifications
Model	Blackmagic Design Ultra Studio 3G Recorder or equivalent	
SDI Video Inputs	1	
SDI Rates	270Mb, 1.5G, 3G	
SDI Audio Inputs	16 Channels embedded in SD/HD	
HDMI Video Inputs	1	
HDMI audio Inputs	8 Channels embedded in SD/HD	
Computer Interface	Thunderbolt 3 (Mac OS, Linux, Windows)	

**5. Tripod (Qty: 2)**

	Minimum Requirements	Your brand and Specifications
Model		
Length	4 ft or more	
Compatibility	Compatible with canon, sony, black magic devices	

**6. Phone live streaming (Qty: 1)**

	Minimum Requirements	Your brand and Specifications
Model	Apple iPhone 13 Pro or equivalent	
NETWORK Technology	GSM / CDMA / HSPA / EVDO / LTE / 5G	
BODY Dimensions	146.7 x 71.5 x 7.7 mm (5.78 x 2.81 x 0.30 in)	
BODY Weight	204 g (7.20 oz)	
BODY Build	Glass front (Gorilla Glass), Glass back (Gorilla Glass), Stainless steel frame	



<b>SIM</b>	Single SIM (Nano-SIM and/or eSIM) or Dual SIM (Nano-SIM/eSIM, dual stand-by)
<b>Water Resistance</b>	IP68 dust/water resistant (up to 6m for 30 mins)
<b>DISPLAY Type</b>	Super Retina XDR OLED, 120Hz, HDR10, Dolby Vision, 1000 nits (HBM), 1200 nits (peak)
<b>DISPLAY Size</b>	6.1 inches, 90.2 cm <sup>2</sup> (~86.0% screen-to-body ratio)
<b>DISPLAY Resolution</b>	1170 x 2532 pixels, 19.5:9 ratio (~460 ppi density)
<b>DISPLAY Protection</b>	Scratch-resistant ceramic glass, oleophobic coating
<b>COLOUR Range</b>	Wide color gamut, True-tone
<b>OS</b>	iOS 15, upgradable to iOS 15.5
<b>Chipset</b>	Apple A15 Bionic (5 nm)
<b>CPU</b>	Hexa-core (2x3.23 GHz Avalanche + 4x1.82 GHz Blizzard)
<b>GPU</b>	Apple GPU (5-core graphics)
<b>MEMORY Internal</b>	128GB 6GB RAM, 256GB 6GB RAM, 512GB 6GB RAM, 1TB 6GB RAM NVMe
<b>MAIN CAMERA Quad</b>	12 MP, f/1.5, 26mm (wide), 1.9µm, dual pixel PDAF, sensor-shift OIS 12 MP, f/2.8, 77mm (telephoto), PDAF, OIS, 3x optical zoom 12 MP, f/1.8, 13mm, 120° (ultrawide), PDAF TOF 3D LiDAR scanner (depth)
<b>MAIN CAMERA Features</b>	Dual-LED dual-tone flash, HDR (photo/panorama)
<b>MAIN CAMERA Video</b>	4K@24/30/60fps, 1080p@30/60/120/240fps, 10-bit HDR, Dolby Vision HDR (up to 60fps), ProRes, Cinematic mode, stereo sound rec.
<b>SELFIE CAMERA Dual</b>	12 MP, f/2.2, 23mm (wide), 1/3.6" SL 3D, (depth/biometrics sensor)
<b>SELFIE CAMERA Features</b>	HDR



<b>SELFIE CAMERA Video</b>	4K@24/25/30/60fps, 1080p@30/60/120fps, gyro-EIS
<b>SOUND Loudspeaker</b>	Yes, with stereo speakers
<b>WLAN</b>	Wi-Fi 802.11 a/b/g/n/ac/6, dual-band, hotspot
<b>Bluetooth</b>	5.0, A2DP, LE
<b>GPS</b>	Yes, with A-GPS, GLONASS, GALILEO, BDS, QZSS
<b>NFC</b>	Yes
<b>Radio</b>	No
<b>USB</b>	Lightning, USB 2.0
<b>Sensors</b>	Face ID, accelerometer, gyro, proximity, compass, barometer Ultra Wideband (UWB) support
<b>BATTERY Type</b>	Li-Ion 3095 mAh, non-removable (12.11 Wh)
<b>Charging</b>	Fast charging (23W, unofficial rating), 50% in 30 min (advertised) USB Power Delivery 2.0 MagSafe wireless charging 15W Qi magnetic fast wireless charging 7.5W



**7. Smart Phone Stabilizing Gimbal (Qty: 1)**

	Minimum Requirements	Your brand and Specifications
<b>General</b>	DJI OM 5 or equivalent	
<b>Model</b>		
<b>Gimbal Dimensions</b>	Unfolded: 264.5×111.1×92.3 mm Folded: 174.7×74.6×37 mm	
<b>Weight</b>	Gimbal: 292 g Magnetic Phone Clamp: 34 g	
<b>Max Length of Built-in Extension Rod</b>	215 mm	
<b>Compatible Phone Weight</b>	230 ± 60 g	
<b>Compatible Phone Thickness</b>	6.9-10 mm	
<b>Compatible Phone Width</b>	67-84 mm	
<b>Battery</b>		
<b>Type</b>	Pouch Cell	
<b>Capacity</b>	1000 mAh	
<b>Energy</b>	7.74Wh	
<b>Voltage</b>	6-8.8 V	
<b>Charging Temperature</b>	5° to 40°C (41° to 104°F)	
<b>Operating Temperature</b>	0° to 40°C (32° to 104°F)	
<b>Operating Time</b>	6.4 hrs (under ideal conditions with the gimbal fully balanced)	
<b>Charging Time</b>	1.5 hrs (measured with a 10W charger)	
<b>Gimbal Charging Port</b>	USB-C	
<b>External Device Charging Port</b>	No.	
<b>Universal Mount</b>	1/4" Threaded Hole	
<b>Gimbal</b>		
<b>Power Consumption</b>	1.2 W (under ideal conditions with the gimbal fully balanced)	



<b>Mechanical Range</b>	Pan: -161.12° to 172.08° Roll: -127.05° to 208.95° Tilt: -101.46° to 229.54°
<b>Max Control Speed</b>	120° /s
<b>Wireless Mode</b>	
<b>Model</b>	Bluetooth Low Energy 5.0
<b>Grip Tripod</b>	
<b>Gimbal Dimensions</b>	Length: 138 mm Diameter: 32 mm
<b>Weight</b>	72 g

**8. Screen for Multiview (Qty: 1)**

	Minimum Requirements	Your brand and Specifications
<b>Model</b>	DELL P2419H or equivalent	
<b>Dimensions</b>	24 Inch	
<b>Features</b>	LED-Backlit, Anti-glare, Height adjustable, swivel and tilt adjustable, pivot adjustable	
<b>Resolution</b>	FHD 1080 x 1920 pixels at 60Hz	
<b>Ports</b>	HDMI, VGA, DisplayPort, USB	

