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Statistics South Africa
REPUBLIC OF SOUTH AFRICA

Kato Vission or equivalent PTZ camera (QTY x 3)

Technical specifications for a versatile PTZ camera specifically built for high-performance broadcasting and conferencing:

Camera & Lens Parameters

- Image Sensor: Progressive CMOS, 2.07 Effective Megapixels.
- Resolution: Up to 1920x1080p at 60fps.
- Optical Zoom: 20x optical zoom with an additional 16x digital zoom.
- Focal Length: f=5.2mm (wide) to 104mm (tele).
- Aperture: F1.55 – F3.13.
- View Angle:
 - Horizontal: 58.7° (wide) to 3.2° (tele).
 - Vertical: 32.2° (wide) to 1.8° (tele).
- Digital Noise Reduction: 2D & 3D DNR; S/N Ratio ≥50dB (up to 55dB in some conditions).

Pan, Tilt & Presets

- Pan Range: 355° total movement.
- Tilt Range: -30° to +90°.
- Rotation Speed:
 - Pan: 1°/s to 80°/s.
 - Tilt: 1°/s to 60°/s.
- Presets: 9 via IR remote; up to 255 via joystick or PC interface.

Connectivity & Protocols

- Physical Interfaces:
 - Video: HDMI (v1.4), 3G-SDI, USB 3.0 (Type-B), LAN (RJ45).
 - Audio: 3.5mm Line In.
 - Control: RS232 (In/Out), RS422/RS485.
- Network Protocols: NDI®/HX2 (optional), SRT, RTSP, RTMP, RTMPS, ONVIF, HTTP, TCP/IP.
- Video Compression: H.264, H.265 (LAN); YUY2, MJPEG (USB).
- Control Protocols: VISCA (including VISCA over IP), Pelco-D, Pelco-P.

Physical & Power

- Input Voltage: DC 12V / 1.5A.
- Power Consumption: Max 18W.
- PoE Support: 802.3af standard (Optional feature).
- Dimensions: 134mm (W) x 174mm (D) x 187mm (H).
- Weight: Approx. 1.2kg.

MJB

Boya or equivalent Wireless mic system (QTY x 3)

Detailed technical specifications for a dual-channel wireless microphone

Key Features

- **Dual-Channel Receiver:** The RX8 Pro receiver can work with two transmitters simultaneously, though the K1 kit specifically includes only one.
- **UHF Frequency:** Operates on 48 selectable UHF channels to help avoid interference.
- **Operating Range:** Delivers reliable signal transfer up to 100m (300ft) without obstacles.
- **Battery Life:** Both the transmitter and receiver are powered by 2x AA batteries, offering over 6 hours of continuous operation.
- **Monitoring:** The receiver includes a 3.5mm headphone jack for real-time audio monitoring

Kato vision or equivalent PTZ camera controller (QTY x 1):

Detailed specifications

Control & Capacity

- **Camera Capacity:** Controls up to 1,000 cameras.
- **Preset Support:** Supports up to 255 presets for saved camera positions.
- **Camera Shortcuts:** 7 dedicated buttons for instant camera switching.

Hardware & Interface

- **Joystick:** 4D precision joystick for variable-speed pan, tilt, and zoom.
- **Display:** 3-inch LCD color screen for menu navigation and status monitoring.
- **Knobs:** 3D parameter knobs for fine-tuning exposure, white balance, and focus.
- **Buttons:** Silicone backlit keys (red/white) with a tactile "click" and optional prompt tones.
- **Customization:** 2 programmable function keys (F1 and F2).

Connectivity & Protocols

- **Network (IP):** NDI®|HX2, VISCA Over IP, VISCA TCP, and ONVIF.
- **Serial (Legacy):** RS-232, RS-422, and RS-485 using VISCA, Pelco-D, or Pelco-P.
- **Preview Support:** Real-time PVW (preview) over the network via NDI®|HX2 and RTSP.
- **Tally:** Supports up to 8 channels for "on-air" signalling.

Power & Physical Specs

- **Power Options:** Supports PoE (802.3af) via Ethernet or a 12V DC (0.25A) power supply.
- **Power Consumption:** Rated at a low 3W.
- **Dimensions:** 332mm x 136mm x 58mm (height reaches 116mm including the joystick).
- **Weight:** Lightweight design at approximately 0.8 kg.
- **Temperature Range:** Operates between -10°C and 40°C.

MS

OSEE or equivalent Portable all-in-one live streaming kit: (QTY x 1)

Technical Specifications

Video Inputs & Formats

- Total Channels: 5 channels (4 physical + 1 selectable source).
- Physical Inputs: 4 x HDMI (Type A) and 4 x SDI (BNC). Users select one or the other for each of the four physical channels.
- Auxiliary Input: 1 selectable source (NDI|HX, UVC USB-C camera, or internal media player).
- Input Resolutions:
 - 1080p: 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 fps.
 - 1080i: 50, 59.94, 60 fps.
 - 720p: 50, 59.94, 60 fps.
- Colour Processing: 10-bit 4:2:2 YCbCr and 8-bit 4:4:4 RGB

Video Outputs

- HDMI Outputs: 2 x HDMI (configurable for PGM, PVW, Multiview, or direct input monitoring).
- USB Output: 1 x USB-C (UVC) supporting up to 1080p30 for webcam-style output to OBS or Zoom.
- Direct Streaming: Integrated Ethernet port for simultaneous RTMP streaming to up to 3 platforms.

Audio Processing

- Inputs: 2 x 3.5mm TRS microphone/line-level inputs.
- Outputs: 1 x 3.5mm headphone jack for real-time monitoring.
- Internal Mixer: 7-channel digital mixer with controls for gain, balance, delay, and effects (compressor, EQ, noise gate).

Integrated Monitor

- Size: 14 inches.
- Resolution: 1920 x 1080 (Full HD).
- Brightness: 350 cd/m² (nits).

Recording & Storage

- Format: H.264 recording at up to 70 Mb/s.
- Media: Supports SD cards (ExFAT) or external USB 2.0/3.0 SSDs.

Physical & Environmental

- Dimensions: 366 x 300 x 113 mm.
- Weight: ~5 kg (approx. 11 lbs).
- Power Consumption: 12W.
- Power Inputs: 12V DC, AC power (100–240V), or USB-C PD power bank.
- Operating Temp: 5°C to 40°C (41°F to 104°F)
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NB: The unit must be compatible with platforms such as YouTube, Facebook, and Twitter

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Hollyland PYRO or equivalent 4K HDMI wireless video transmission system (QTY x 3)

Key Specifications (Transmitter)

- Video Input/Output: HDMI 1.4b input, HDMI 1.4b loop output.
- Resolution Support: Up to 4K/30fps, 1080p/60fps, 1080i/60fps, 720p/60fps.
- Transmission Range: Up to 1,300 ft (400 m) line-of-sight (LOS).
- Broadcast Range: Up to 650 ft (200 m) LOS (1 TX to 4 RX).
- Latency: As low as 60 ms.
- Frequency Bands: 2.4 GHz and 5 GHz (Dual Band).
- Bandwidth: 20 MHz / 40 MHz (Automatic Frequency Hopping).
- Video Coding: H.264.

Physical & Power

- Weight: 192 g (6.8 oz).
- Dimensions: 109 x 62.3 x 33.4 mm (4.3 x 2.5 x 1.3 in).
- Power Input: 6–16 VDC (2.0mm barrel), NP-F battery mount, USB-C (5V/2A).
- Power Consumption: < 7W (Transmitter).

Notable Features

- UVC Streaming: Allows direct plug-and-play streaming to a computer without capture cards.
- Smart Channel Scan: Automatically selects the best frequency channel on startup.
- Broadcast Mode: Supports 1 Transmitter to 4 Receivers (or 2 Receivers and 2 Apps).
- Modes: Features HD Mode (better image, higher bitrate) and Smooth Mode (lower latency)

SWIT or equivalent 120W bi-colour SMD LED panel light kit (QTY x 1)

Optical & Photometric Data

- LED Count: 1800pcs ultra bright long life LEDs.
- Illuminance: 2200 Lux at 1 meter (centre).
- Color Temperature: 2700K – 6500K continuously adjustable.
- Color Rendering: CRI Ra 98, TLCI 99.
- Beam Angle: 70° (50% bounded).
- Dimming: 0–100% flicker-free dimming.

Power & Input

- Power Consumption: Approximately 120W.
- Working Voltage: DC 11V – 36V wide input.
- Power Connectors:
 - DC Input: 4-pin XLR socket.
 - Battery Plate: Standard V-mount (Gold mount optional).
- Battery Compatibility: Supports IP54-rated for full waterproof operation.

RJm

Connectivity & Display Features

- Display Modes: Functions as a secondary computer monitor (Windows/macOS) via USB-C or Mini HDMI.
- Mirroring: Supports plug-and-play screen mirroring from smartphones and tablets that support DP (DisplayPort) protocol.
- On-Device Controls: A built-in toggle button allows for manual brightness adjustment and instant image de-flipping (horizontal/vertical) directly on the monitor.
- Reading Distance: Optimized for a reading range of up to 2.5 meters (8.2 feet)

E-Image or equivalent Professional tripod system (QTY x 3)

System Specifications

- Payload Capacity: 3 kg (6.6 lbs).
- Maximum Height: 161.29 cm (63.5").
- Minimum Height: 71.12 cm (28").
- Folded Length: 81.28 cm (32").
- Net Weight: 3.5 kg (7.72 lbs).
- Operating Temperature: -40°C to +80°C (-40°F to 176°F).

Fluid Head

- Bowl Size: 65 mm half-ball.
- Counterbalance: Fixed.
- Drag Control: Fixed fluid drags for both pan and tilt.
- Tilt Range: +90° to -60° (some sources cite up to - 70°)
- Locks: Independent pan and tilt locks.
- Camera Plate: GP1 Quick Release Plate with 1/4" - 20" and 3/8" -16 screws and a locating pin.
- Accessories: Includes a GB1 removable telescoping pan bar (right sided) and a built-in bubble level.

Tripod Legs

- Material: High-quality dual-stage aluminium.
- Leg Sections: 3 sections.
- Leg Lock Type: Ergonomic twist locks.
- Feet: Retractable rubber feet that reveal spikes for soft ground.

Spreader: GS01 Mid-level spreader (removable) for extra stability on uneven surfaces.

MRB

Control & Interface

- Control Ports: 5-pin DMX in/out.
- Control Protocols: DMX512 and Interaction control (master/slave mode).
- Quick Adjustments:
 - Brightness: Click the dimmer knob to switch between 1% and 10% steps.
 - CCT Stepping: 2700K, 3200K, 4500K, 5600K, 6500K.
- LCD Display: Shows dimmer percentage, CCT value, DMX channel, and remaining battery life.

Physical Specifications

- IP Rating: IP54 (rainproof at any angle).
- Lighting Area: 526 × 257 mm.
- Weight: 4.75 kg (net weight) to 4.8 kg.
- Housing: Strong all-metal with a U-stand mount

Neewer or equivalent Teleprompter (QTY x 1)

Core Hardware Specifications

- Beam Splitter Glass: 11-inch (28 cm) HD glass with 75% light transmission and multi-coating to prevent ghosting.
- Integrated Monitor (TM8): 9-inch HD LCD display with 1024 x 768 native resolution and a brightness of up to 826 nits for clear visibility in bright studio settings.
- Main Material: High-grade plastic body with metal camera mounting components.
- Weight: Approximately 1,400 grams (3.1 lbs) for the full unit.
- Power Consumption: 10W total power draw via 5V/2A USB-C input.

Mounting & Compatibility

- Camera Support: Features an Arca-type quick-release plate with a 1/4" screw, supporting a maximum payload of 2 kg (4.4 lbs).
- Adjustment Range: The camera mount offers 10 cm of horizontal travel and 3 cm of vertical elevation for precise lens centering.
- Lens Compatibility: Supports focal lengths from 35mm to 200mm and filter thread sizes up to 72mm.
- Device Mounting: Includes a phone clamp fitting smartphones up to 8.5 cm wide.
- Accessory Mounting: Two integrated cold shoe mounts for attaching microphones or small LED lights.

MB

Godox or equivalent 300 Watts studio light kit (QTY x 1)

Flash Performance

- Maximum Power: 300 Ws.
- Guide Number (GN): 58 m at ISO 100 (using a high-efficiency reflector).
- Power Range: 1/1 to 1/32 (6 stops), adjustable in 0.1 increments across 50 steps.
- Recycle Time: 0.1 to 1.3 seconds at 220V; 0.1 to 1.8 seconds at 110V.
- Flash Duration: 1/2000 to 1/800 second.
- Color Temperature: 5800K $\pm$ 200K.
- Output Stability: Variation remains within $\pm$ 2% at the same power level.

Modelling Light (LED Upgrade)

- Type: 10W LED.
- Brightness Range: 5% to 100%.
- Control Modes: Manual (selectable level), Proportional (matches flash output), and Off.

Wireless & Triggering

- Wireless System: Built-in 2.4G Wireless X system.
- Channels / Groups: 32 Channels / 16 Groups (A–F, 0–9).
- Radio Range: Up to 100 m (328 ft).
- Triggering Methods: Radio (X-system triggers like X2T, XPro, X3), 3.5mm Sync Cord, Test Button, and Optical Slave (S1/S2 modes).
- Anti-Preflash: S2 mode ensures synchronization with cameras that fire a pre-flash.

Physical & Power Specs

- Accessory Mount: Standard Bowens S-Type mount.
- Dimensions: Approximately 12.6 cm diameter x 16.7 cm height x 28.3 cm length (including cap/handle).
- Net Weight: 1.3 kg.
- Power Source: AC 110–120V / 60 Hz or 220–240V / 50 Hz (regional specific).
- Circuit Protection: Built-in 5A user-replaceable fuse.
- Interface: High-contrast LCD panel with an intelligent 3-second auto-memory function that restores settings upon restart

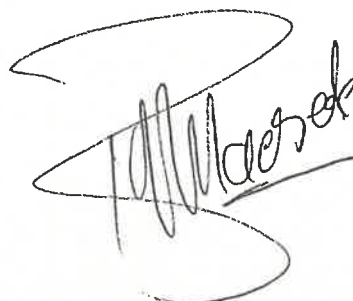
MBS

Dynacore or equivalent V-mount Battery (QTY x 7)

- Cell Type: Lithium-ion.
- Capacity: 4400mAh / 31.7Wh.
- Nominal Voltage: 7.2V.
- Max Constant Load: 30W / 4A.
- USB-C PD (Input/Output): 30W Max. Supports 5V/3A, 9V/3A, 12V/2.5A, 15V/2A, and 20V/1.5A.
- USB-A (Output): 5V/9V/12V (up to 12V max output for use as a power bank).
- Monitoring: Built-in OLED screen displaying percentage, remaining runtime, and cycle count.
- Safety Features: Integrated protection against over-voltage, short-circuit, over-current, and over-charging.
- Dimensions: 70.5 × 38.5 × 51.8 mm.
- Weight: Approximately 0.24 kg.

Dynacore or equivalent V-mount Charger (QTY x 1)

- Input: AC 100V–240V (50/60Hz) or DC 12V–24V.
- simultaneous 2-channel charging for both channels.
- Charging Output: DC 8.4V ± 0.05V.
- Output Current: 600mA ± 50mA.
- Compatibility: Fully compatible with DV-series (DV-4CS, DV-6CS, etc.) and NP-F550/770/970 batteries.
- Weight & Size: Host weight of ~0.06 kg; dimensions 85 × 47.6 × 41.5 mm



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