

MCP-20U MeetCam Pro

Conference PTZ Camera



Aniston Technologies LLP

DESCRIPTION

The Aniston MCP-20U MeetCam Pro is a premium-grade 4K PTZ camera designed for professional video conferencing, lecture capture, and live event broadcasting. Optimized for seamless integration across AV and UC platforms, it combines advanced imaging technology with intelligent AI features to deliver exceptional clarity, precision tracking, and unmatched installation flexibility.

Powered by a SONY 1/2.8" CMOS sensor, the MCP-20U captures ultra-clear 4K video at 30fps, even in low-light environments down to 0.1 lux. Its robust 20X optical zoom and 16X digital zoom enable detailed image capture across boardrooms, classrooms, auditoriums, and large conference spaces.

The camera supports simultaneous multi-interface output, including USB 3.0, HDMI, 3G-SDI, and LAN/IP, making it compatible with popular video conferencing software and AV systems. PoE support and tally integration simplify deployment in broadcast and hybrid environments.

FEATURES

- **Ultra HD 4K30 Video Output**

Equipped with a high-quality SONY 1/2.8" CMOS sensor, the camera delivers crystal-clear 4K (3840×2160) resolution video at 30 frames per second. Ideal for professional-grade conferencing, broadcasting, and lecture capture.

- **20X Optical Zoom with 16X Digital Zoom**

High-performance zoom lens enables detailed framing of subjects in large rooms, auditoriums, and event spaces. Smooth digital zoom transitions ensure clarity even at extended distances.

- **Low-Light Performance with Advanced DNR**

Supports minimum illumination down to 0.1 lux. 2D + 3D digital noise reduction enhances image clarity in low-light conditions, ensuring high-quality visuals at any hour.

- **AI-Based Auto Tracking & Framing**

Built-in AI engine automatically tracks presenter movement, adjusts zoom and pan, and keeps subjects centered—ideal for dynamic speakers or hybrid presentations.

- **Gesture Control Recognition**

Supports intuitive hand gestures to toggle tracking, zoom, or recall presets. Enhances user interaction without requiring remotes or touch panels.

- **Multiple Video Output Interfaces**

Simultaneous output via HDMI, 3G-SDI, USB 3.0, and LAN. Supports plug-and-play compatibility with conferencing platforms, streaming devices, and AV switchers.

- **IP Streaming & Control**

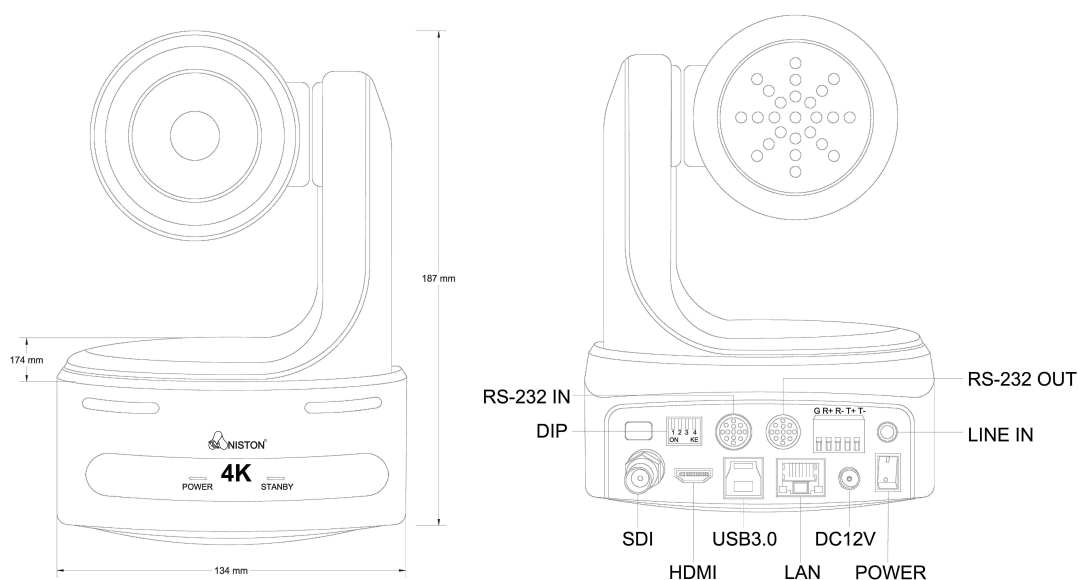
Supports IP video streaming (H.264/H.265) with resolutions up to 4K30 over LAN. Compatible with ONVIF, RTSP, RTMP, SRT and standard control protocols.

TECHNICAL SPECIFICATIONS

Model	MCP-20U
Series	MeetCam Pro
Image Sensor	1/2.8" SONY CMOS, 8.50 Megapixels
Effective Pixels	8.29 Megapixels
Video Output Interfaces	HDMI 1.4 / USB 3.0 / 3G-SDI / Ethernet (LAN/IP Streaming)
Maximum Output Resolutions	>HDMI: 3840×2160@30fps / SDI: 1080p60 / USB: 3840×2160@30fps (optional)
Supported Video Formats	4K: 30/25 fps; 1080p: 60/59.94/50/30/25 fps; 720p: 60/50 fps
Optical Zoom	20X (f=5.2mm – 104mm, F1.55–F3.13)
Digital Zoom	16X Digital Zoom
Minimum Illumination	0.1 Lux (color), 0.05 Lux with DNR (30fps, F1.6)
S/N Ratio	≥ 55 dB
Shutter Speed	1/25 to 1/10000s
Aperture	F1.55 – F3.13
Focus Mode	Auto / Manual
White Balance Modes	Auto / Indoor / Outdoor / One-push / Manual
Exposure Modes	Auto / Manual / Shutter Priority / Brightness Priority
Backlight Compensation	Supported
Digital Noise Reduction	2D + 3D DNR (Configurable)
Wide Dynamic Range (WDR)	Supported
Viewing Angle (H/V/D)	H: 58.7° – 3.2° / V: 32.2° – 1.8° / D: ~65° typical
Pan Range	355°
Tilt Range	-30° to +90°
Pan Speed	1° to 80°/s
Tilt Speed	1° to 60°/s
Preset Positions	255 presets (via IP/Serial), 9 presets (IR remote)
Preset Accuracy	±0.1°
Flip / Mirror Image	Supported (H/V Flip)
Tally Light	Yes (Front Red LED Indicator)
AI Tracking Features	Human Detection, Auto Tracking, Auto Framing, Gesture Recognition
Gesture Control	Yes (Zoom In/Out, Auto Tracking Toggle, Preset Recall)
Video Compression	H.264 / H.265 / YUY2 / MJPEG
Audio Input	1x Line In (3.5mm Stereo Jack)
Audio Compression	AAC / G.711
Network Protocols	RTMP / RTSP / SRT / Onvif / DHCP / TCP/IP / HTTP / UDP
Control Protocols	VISCA / VISCA over IP / PELCO-D / PELCO-P / ONVIF / UVC 1.1
Control Interface	RS232 / RS422 / USB / IP (Ethernet) / IR Remote
Web Interface	Yes (Web GUI with Live Preview, Configuration, Updates)

USB Video Class	UVC 1.1 (Windows, macOS, Linux, Android Compatible)
USB Output Resolutions	Up to 4K30, 1080p, 720p, 640×480, 352×288, 320×240 (auto-detect)
Frame Rate (USB)	Up to 30 fps
PoE Support	IEEE 802.3af (PoE Standard)
Power Input	DC 12V ±10%
Power Consumption	Max 12W (PoE or DC)
Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 60°C
Dimensions (W×D×H)	134mm × 174mm × 187mm
Weight	Approx. 1.2 kg
Mounting Options	Wall Mount / Ceiling Mount / Tripod Mount (Bracket Optional)
Included Accessories	DC 12V Adapter, IR Remote, USB Cable, RS-232 Cable, User Manual, Mount Bracket
Compliance	CE, FCC, RoHS, BIS Certified.
Limited Warranty	3 years (optional extension to 5 years)

PRODUCT DIMENSION



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