

DualSight Ultra Pro

AI Conference PTZ Camera



DESCRIPTION

The Aniston DualSight Ultra Pro (DSC-50U) is a high-performance AI-powered PTZ camera system designed specifically for modern conference rooms, hybrid meetings, boardrooms, and enterprise collaboration spaces. Engineered as a single, all-in-one unit, the DSC-50U combines a powerful wide-angle PTZ lens with an integrated panoramic contextual lens, delivering seamless, intelligent tracking and multi-view framing without the need for external control systems or manual switching.

Powered by advanced AI algorithms, the DSC-50U offers speaker detection, auto-framing, gesture recognition, and hybrid conferencing logic, making it ideal for dynamic multi-participant scenarios. Whether used in a live meeting or virtual collaboration, it ensures that active speakers are always in focus, framed accurately, and transitioned smoothly — creating a professional and immersive conferencing experience.

With versatile connectivity options (HDMI, USB 3.0, 3G-SDI, IP), built-in omnidirectional microphones with noise suppression, and support for major conferencing platforms, the DSC-50U is the ultimate plug-and-play solution for any smart conference environment.

FEATURES

- **All-in-One Dual-Lens Design**

Combines a high-precision 107° PTZ lens with a 5.7MP panoramic lens in a single compact unit for intelligent speaker tracking and room-wide visibility.

- **AI-Powered Speaker Tracking & Auto-Framing**

Both Detects active speakers in real time and automatically frames them with smooth transitions — perfect for dynamic conferencing without manual camera control.

- **Multiple AI Framing Modes**

Supports various intelligent modes including:

- ▶ Presenter Tracking
- ▶ Speaker Auto-Framing
- ▶ Group Framing
- ▶ Custom Zone-Based Framing

Easily configurable for physical meetings, hybrid calls, and panel discussions.

- **High-Performance 20X Optical PTZ**

Delivers precise framing through a motorized PTZ lens with 20X optical zoom and 16X digital zoom, ensuring clarity from close-up to wide shots.

- **Panoramic 5.7MP Fixed Contextual Lens**

Provides ultra-wide continuous room coverage, supporting AI analysis and offering an always-on reference view alongside the main PTZ output.

- **Advanced Streaming & Video Interfaces**

Simultaneous output via HDMI, USB 3.0, 3G-SDI, and IP streaming with support for RTSP, RTMP, RTMPS, and ONVIF protocols.

- **Built-in Microphone with Noise Suppression**

Integrated omnidirectional microphone with a 6-meter pickup range captures clear voice audio in medium to large meeting spaces.

- **Flexible Installation with PoE+ Support**

Supports PoE+ (IEEE 802.3at) and 12V DC input, with included mounting hardware for wall, ceiling, or tripod setup.

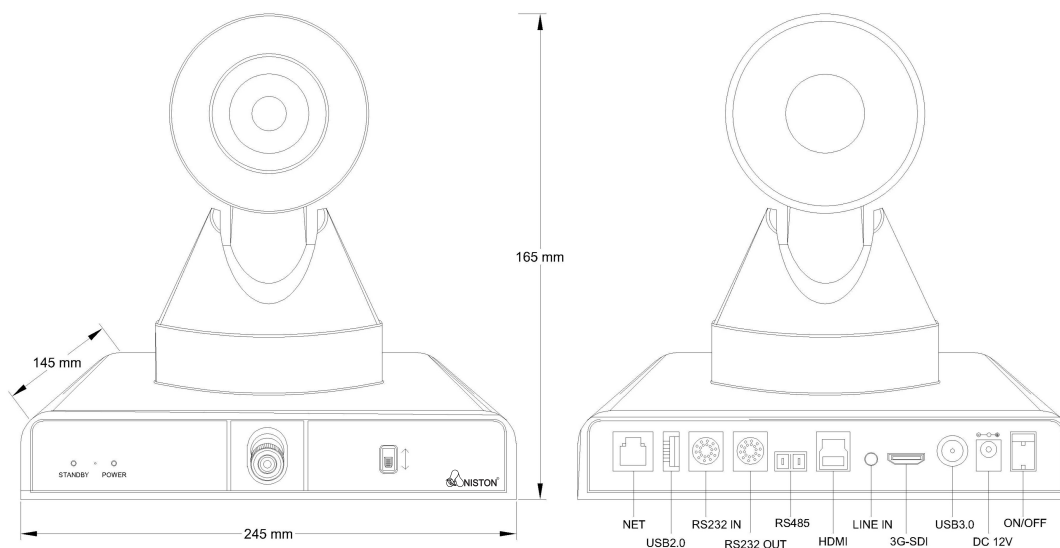


TECHNICAL SPECIFICATIONS

Model Name	DualSight Ultra Pro
Model Number	DSC-50U
Camera Configuration	Single Unit (Dual-Lens: PTZ + Panoramic)
PTZ Image Sensor	1/2.8" CMOS
Panoramic Image Sensor	1/2.5" CMOS
Effective Pixels (PTZ)	>2.13 Megapixels
Effective Pixels (Panoramic)	5.7 Megapixels
Optical Zoom (PTZ)	20X (f = 4.9mm – 94mm, F1.6 – F3.5)
Digital Zoom (PTZ)	16X Digital
Field of View (PTZ Lens)	107° (Horizontal)
Field of View (Panoramic)	112° (Diagonal), 107° (H), 80° (V)
Minimum Illumination	0.1 Lux (F1.8, AGC ON)
Aperture (PTZ)	F1.6 – F3.5
Shutter Speed	1/60s to 1/10,000s
Focus Mode (PTZ)	Auto / Manual
Focus Mode (Panoramic)	Fixed
White Balance	Auto / Indoor / Outdoor / Manual / One Push
Exposure Mode	Auto / Manual
Backlight Compensation	Supported
Signal-to-Noise Ratio	≥ 40 dB
Video Output Interfaces	HDMI / 3G-SDI / USB 3.0 / USB 2.0 / LAN (IP Streaming)
Supported Resolutions	1080p60/50/30/25, 720p60/50, USB: MJPEG up to 4K
USB Protocol	UVC 1.1 / 1.5
USB Compatibility	Windows 7+, macOS, Linux, Android
USB Output Formats	MJPEG, YUY2
USB Frame Rate	Up to 30 fps
Video Compression (LAN)	H.264 / H.265 / MJPEG
Video Compression (USB)	MJPEG, YUY2
Streaming Protocols	RTSP, RTMP, RTMPS, HTTP, TCP/IP, DHCP, Multicast, ONVIF
Control Interfaces	RS232 (Mini-DIN), RS422/485 (Phoenix), IP, USB
Control Protocols	VISCA / VISCA over IP / Pelco-D / Pelco-P / ONVIF
Preset Positions	256
Preset Accuracy	±0.1°
Video Compression (USB)	MJPEG, YUY2
Pan Range	±170°
Tilt Range	-30° to +90°
Pan Speed	0.1° to 100°/s
Tilt Speed	0.1° to 80°/s
Flip / Mirror	Supported (H/V Flip)
Tally Light	Yes (Front Red LED Indicator)

Audio Input	RS232 (Mini-DIN), RS422/485 (Phoenix), IP, IR, USB
Built-in Microphone	Omnidirectional, 6m Pickup, Noise Suppression
Audio Compression	AAC
Power Supply	DC 12V / PoE+ (IEEE 802.3at)
Power Consumption	Max 17W (PoE), Max 16W (DC)
Mounting Options	Wall / Ceiling / Tripod (Mount Kit Included)
Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 60°C
Dimensions (W×D×H)	245 × 145 × 165 mm
Weight	1.4 kg per unit
Mounting	Wall / Ceiling Mount (Included)
Compliance	CE, FCC, RoHS, BIS Certified.
Limited Warranty	3 years (optional extension to 5 years).

PRODUCT DIMENSION



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