

DualSight Edu Pro

AI Classroom PTZ Camera



DESCRIPTION

The Aniston DSC-50E DualSight EDU Pro is a professional-grade AI camera system designed specifically for modern educational environments, hybrid classrooms, lecture capture, and remote learning setups. Unlike traditional tracking cameras, the DSC-50E is delivered as a complete set of two advanced dual-lens PTZ cameras — one positioned for the teacher area, and one for the student view — working together through intelligent automation.

Each camera unit integrates:

- A high-precision PTZ lens with optical zoom and AI auto-tracking, and
- A fixed panoramic lens for full-room situational awareness.

In the teacher-side camera, the PTZ lens uses a narrow 48° field of view, ideal for close-up face and upper-body tracking, presentations, or board writing. The student-side camera uses a wide 107° PTZ lens to capture the classroom or audience area, perfect for detecting participation or interaction.

FEATURES

- **Complete Dual-Camera Set for Smart Classrooms**
The DSC-50E DualSight EDU Pro is delivered as a set of two advanced dual-lens PTZ cameras — one dedicated for the teacher area and one for the student view — working together as a synchronized system for dynamic classroom capture.
- **Dual-Lens Design in Each Camera Unit (PTZ + Panoramic)**
Both teacher and student camera units include two lenses each:
 - ▶ A motorized PTZ lens for intelligent tracking and zooming
 - ▶ A fixed panoramic lens for wide-angle room context
 This allows each camera to simultaneously output a close-up and a wide-area view, enhancing recording and remote viewing quality.

- **Optimized Role-Based Field of View (FOV)**
The teacher PTZ lens uses a narrow 48° horizontal FOV to deliver close-up tracking of instructors. The student PTZ lens features a wide 107° horizontal FOV, ideal for capturing classroom interaction, participation, or group discussions.
- **AI-Powered Tracking & Auto Switching Logic**
Built-in AI enables real-time auto tracking, gesture detection, and intelligent switching between teacher and student camera feeds — based on voice, motion, and scene activity. No external processor or manual switching is needed.
- **Gesture Recognition for Hands-Free Operation**
Teachers can raise hands or perform simple gestures to zoom, toggle tracking, or recall preset framing — eliminating the need for a control panel or remote in active classrooms.
- **Full HD 1080p60 High-Performance Video**
Supports smooth, real-time streaming at 60fps with rich details and accurate color output across all video interfaces — including HDMI, 3G-SDI, USB 3.0, and IP.
- **20X Optical Zoom + 16X Digital Zoom on PTZ Lenses**
Offers versatile zoom capabilities to frame speakers precisely, whether capturing a blackboard session or wide student engagement — without quality loss.
- **Panoramic Fixed Lens with 5.7MP Sensor**
The secondary panoramic lens on each unit provides constant wide-angle coverage of the environment, ideal for safety, context, and AI recognition.

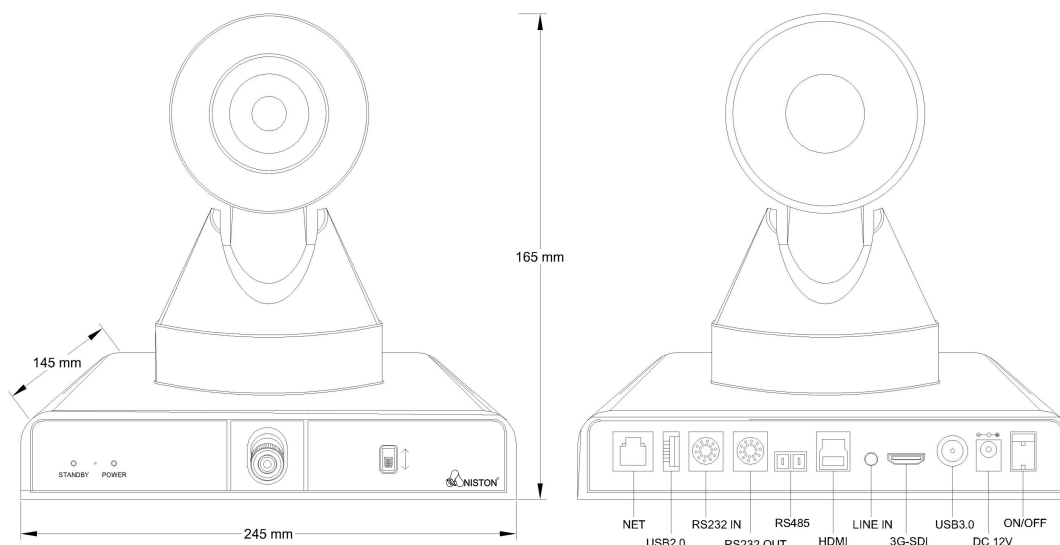


TECHNICAL SPECIFICATIONS

Model Name	DualSight Edu Pro
Model Number	DSC-50E
System Configuration	Set of 2 Dual-Lens PTZ Cameras (Teacher + Student)
Image Sensor (PTZ Camera)	1/2.8" CMOS
Image Sensor (Panoramic)	1/2.5" CMOS
Effective Pixels (PTZ)	>2.13 Megapixels
Effective Pixels (Panoramic)	5.7 Megapixels
Video Output Interfaces	HDMI 1.4 / USB 3.0 / USB 2.0 / 3G-SDI / LAN (IP Streaming)
Maximum Output Resolutions	1080p: 60/50/30/25 fps, 720p: 60/50 fps
Supported Video Formats	0.1 Lux (F1.8, AGC ON)
Optical Zoom (PTZ)	20X (f = 4.9mm – 94mm, F1.6 – F3.5)
Digital Zoom (PTZ)	16X Digital Zoom
FOV – Teacher PTZ	48° (Horizontal)
FOV – Student PTZ	107° (Horizontal)
FOV – Panoramic (Both)	107° (H), 80° (V), 112° (D)
Minimum Illumination	1.0 Lux (F1.6 / F1.8, AGC ON)
S/N Ratio	≥ 40 dB
Shutter Speed	1/60s to 1/10,000s
Aperture	F1.6 – F3.5
Focus Mode	Auto / Manual (PTZ), Fixed (Panoramic)
White Balance Modes	Auto / Indoor / Outdoor / Manual / One Push
Exposure Modes	Auto / Manual
Backlight Compensation	Supported
Viewing Angle (Pan / Tilt)	Pan: ±170°, Tilt: -30° to +90°
Pan Speed	0.1° to 100°/s
Tilt Speed	0.1° to 80°/s
Preset Positions	256
Preset Accuracy	±0.1°
Flip / Mirror Image	Supported (H/V Flip)
Tally Light	Yes (Front Red LED Indicator)
AI Tracking Features	Auto Tracking, Auto Framing, Gesture Recognition, Partition Tracking, AI Guard Position
Gesture Control	Zoom In/Out, Tracking Toggle, Preset Recall
Video Compression (LAN)	H.264 / H.265 / MJPEG
Video Compression (USB)	MJPEG, YUY2
USB Protocol	UVC 1.1, UVC 1.5
USB Compatibility	Windows 7+, macOS, Linux, Android
USB Output Resolutions	MJPEG: up to 3840×2160 / YUY2: up to 1920×1080
USB Frame Rate	Up to 30 fps
Streaming Protocols	TCP/IP, HTTP, RTSP, RTMP, RTMPS, DHCP, Multicast, ONVIF
Control Protocols	VISCA / VISCA over IP / Pelco-D / Pelco-P / ONVIF

Control Interfaces	RS232 (Mini-DIN), RS422/485 (Phoenix), IP, IR, USB
Audio Input	1x Line-in (3.5mm stereo jack)
Built-in Microphone	Omnidirectional array, 6m pickup, noise suppression
Audio Compression	AAC
Power Input	DC 12V / PoE+ (IEEE 802.3at)
Power Consumption	Max 17W (PoE), Max 16W (DC)
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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