

D7722

4K AI All-in-One Video Conference Camera



Description

D7722 is a 4K AI USB video conference camera designed for small meeting rooms and personal video communication. Integrating a high-definition camera, intelligent tracking, microphone array, and speaker into one compact device, it delivers an all-in-one audio and video solution for modern conferencing environments.

Equipped with a 1/2.8" SONY CMOS sensor with 8.29 megapixels, D7722 captures stunning 4K UHD video at 30 fps with excellent image details, accurate color reproduction, and lifelike clarity. The AI-powered auto framing and voice tracking functions automatically adjust the view according to participants' positions and speaking status, creating a natural and efficient meeting experience. With an ultra-wide field of view, built-in microphone array, and high-performance speaker, D7722 provides clear communication for small meeting rooms, huddle spaces, and personal workstations.

Features

- **4K Ultra HD Image Sensor:** Equipped with a 1/2.8" SONY CMOS image sensor and 8.29MP resolution, D7722 supports 3840×2160@30fps 4K UHD video output, delivering exceptional image details, accurate color reproduction, and natural visual clarity.
- **AI-Powered Auto Framing:** The built-in AI algorithm automatically detects and frames participants, keeping everyone properly positioned in the view without manual adjustment for a smarter and more efficient meeting experience.
- **Speaker/Voice Tracking:** With advanced voice tracking technology, the camera detects the active speaker and smoothly switches the view within 3 seconds, ensuring seamless communication during meetings.
- **ePTZ Function with 5× Digital Zoom:** Supports electronic PTZ control with 5× digital zoom. Users can adjust viewing angles, zoom in/out, and enable image flip or mirror effects via the IR remote control for flexible operation.
- **Multiple Field of View Modes:** Featuring a 118.8° ultra-wide-angle lens with distortion-free imaging, D7722 captures a complete meeting scene without fisheye effects. Multiple FOV modes allow users to

easily adjust viewing angles according to different meeting spaces.

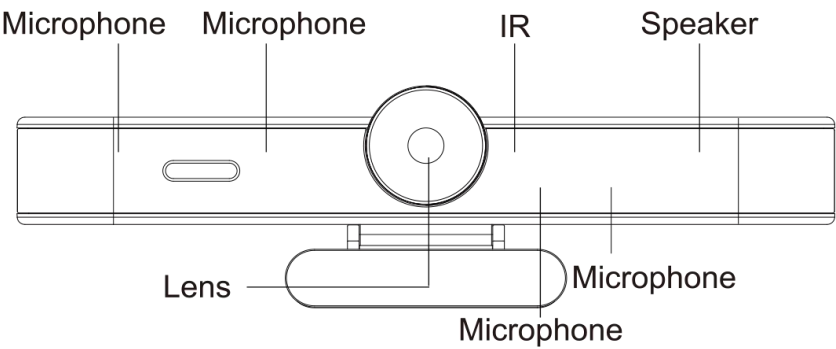
- USB Type-C Plug & Play: The USB Type-C interface supports plug-and-play connectivity without additional drivers. The screw-lock design ensures a stable connection for reliable audio and video transmission.
- Flexible Installation Options: Supports multiple installation methods, including desktop placement, monitor mounting, and tripod mounting, providing flexible deployment options for different environments.

Specifications

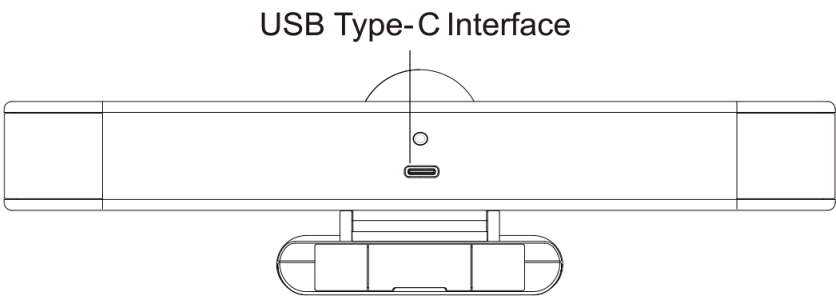
Model	D7722
Image Sensor	1/2.8" IMX415
Effective Pixels	8.29 megapixels
Video Signal	3840 × 2160@30fps, 2560 × 1440@30fps, 1920 × 1080@30fps
Lens & Aperture	Fixed focus lens
Optical Zoom	/
Digital Zoom	5x
Zoom Speed	Fixed
Focal Length	/
Horizontal Field of View (H)	109.9° (H)
Vertical Field of View (V)	74.6° (V)
Diagonal Field of View (D)	118.8° (D)
AI Support	Supported
AI Modes	Auto Framing; Speaker Tracking
Minimum Illumination	0.1 lux
Shutter Speed	1/25s–1/10000s
White Balance	Auto / Manual / Indoor / Outdoor / Specific Color Temperature / One-Push
Backlight Compensation	Supported
Digital Noise Reduction	2D & 3D DNR
Signal-to-Noise Ratio	>50dB
Exposure	Auto / Manual
Focus	Auto / Manual
Video Encoding Format	YUV
Pan	Not Supported
Tilt	Not Supported
Auto Flip	Not Supported
Image Freeze	Not Supported
PoE (Power over Ethernet)	Not Supported
Preset Position	Not Supported
Preset Accuracy	Not Supported
Preset Recall Speed	Not Supported
Network	
Video Compression	MJPEG, H.264, H.265
Video Stream	/
Main Stream Resolution	/
Sub Stream Resolution	/

Bit Rate	/
Bit Rate Type	/
Frequency	/
Frame Rate	/
Audio Compression	/
Audio Bit Rate	/
Network Protocol	/
USB	
Supported Operating System	Windows / macOS
Color Space Compression	YUV, MJPG, H.264, H.265, NV12
Video Format	3840 × 2160@30fps, 2560 × 1440@30fps, 1920 × 1080@30fps, etc.
USB Video Communication Protocol	UVC (USB Video Class)
UVC PTZ Control	Not Supported
I/O Interface	
HD Output	USB 3.0
Network Interface	/
USB Interface	USB 3.0
Audio Interface	/
Communication Interface	/
SD Card Slot	/
Reset Button	/
Power Interface	USB 3.0
Audio Parameters	
Built-in Microphone	4
Pickup Range	5 m
Built-in Speaker	1
General	
Input Voltage	5 V
Input Current	1 A
Operating Temperature	0°C ~ 40°C
Operating Humidity	20%–80% RH
Power Consumption	5W
Product Dimensions	211 × 58 × 50 mm
Package Dimensions	258 × 142 × 80 mm
Net Weight	0.21 kg
Gross Weight	0.55 kg

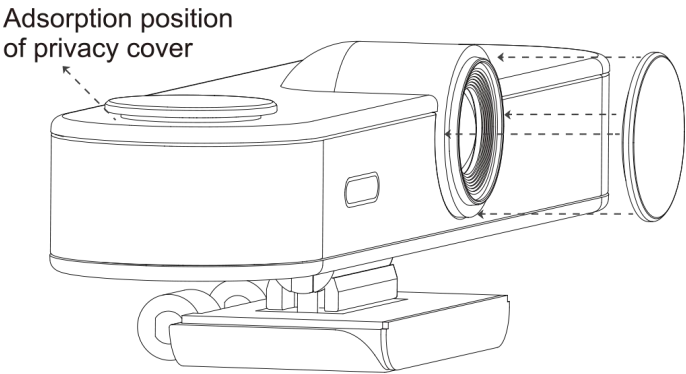
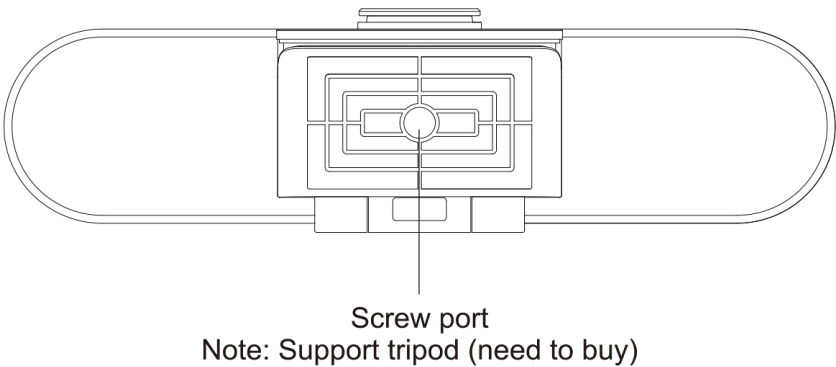
Front Panel



Rear Panel

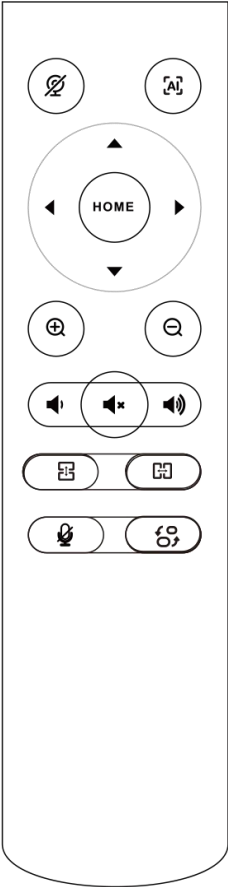


Bottom Panel



1. The magnetic privacy cover protects the camera lens from dust while safeguarding your privacy.
2. When the camera is in use, the privacy cover can be magnetically attached to the camera body for convenient storage and quick access, preventing loss.

Remote Control Overview

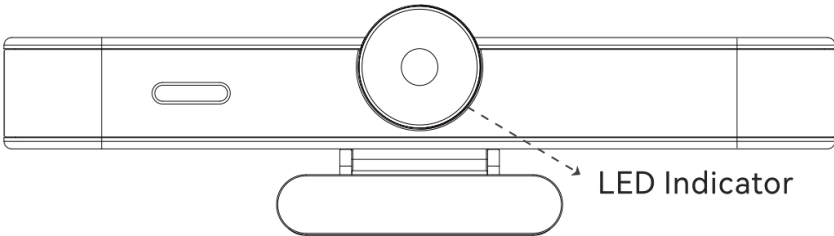


	Camera Off
	AI Mode Button (Press once to enable Multi-Person Tracking mode, press again to enable Speaker Tracking mode, and press again to exit AI mode)
	Up/Down/Left/Right Navigation
	Zoom In
	Zoom Out
	Volume Down
	Speaker On/Off
	Volume Up
	Image Flip
	Mirror
	Microphone On/Off
	Field of View Switch

- Notes:
- 1. The AI function will be disabled after pressing the zoom-in or zoom-out button.
 - 2. When the remote control becomes less responsive or the remote control distance is shortened, please replace the batteries in time.
 - 3. If the remote control will not be used for an extended period, please remove the batteries to prevent battery leakage.
 - 4. Voice Tracking: The camera can detect the active speaker and complete speaker switching within 3 seconds.

LED Indicator Description

LED Indicator Status of 4K AI All-in-One Video Conference Camera



Camera Status	Microphone Status	LED Indicator Status
On	Off	Red light flashes at 500 ms intervals
On	On	Blue light stays on
Off	On	Green light flashes at 500 ms intervals
Off	Off	Red and green lights flash alternately at 500 ms intervals