

# Introduction

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## OVERVIEW

The HT-CAM-4K-DUAL is a 4K dual lens tracking camera designed for medium-sized meeting rooms, providing a perfect display of the room along with zoomed in details. With built-in AI intelligence, the camera can automatically pan, tilt, and/or zoom to the best view to include all participants or track a presenter while displaying a wide fixed view of the room with picture-in-picture.

The HT-CAM-4K-DUAL is fully compatible with most operating systems, including Windows 10/11 and Mac OS, and can be used with Microsoft Teams, Google Meet, Zoom, and other conferencing soft applications.

## FEATURES

- Supports up to 4K@30fps, USB3.0
- Has a built-in dual-eye camera with a panoramic camera to detect all participants in real-time and a PTZ camera to capture the best picture of everyone in the room.
- 4K 3x optical zoom PTZ camera with FOV 110°, panoramic lens with FOV 120°.
- Based on AI technology, the camera enables auto framing, speaker tracking, or presenter tracking.
- Dual-lens design offers a speaker view and wide-angle view simultaneously with PIP layout options.
- Supports MJPG, NV12, and H.265/H.264 video compression
- Easy setup and USB plug-and-play
- Compatibility with main stream operating systems such as Windows 10/11, Mac OS, and collaboration with Google Meet, Microsoft Teams, Skype, and others.

# Specifications

AI PTZ Camera	
Lens	8MP, 3x Optical Lens
Sensor	CMOS, 8MP effective pixels
Video Format	<b>HDMI:</b> Fixed at 4K@30fps <b>USB3.0 Stream:</b> <b>MJPEG/H.265/H.264:</b> 3840x2160   1920x1080   1280x720   640x480   640x360   320x240 - @fps <b>NV12:</b> 1920x1080   1280x720   640x480   640x360   320x240 - @30fps
DFOV	110°
Optical Zoom	3x
White Balance	Automatic; support to set parameter via API
Exposure Mode	Automatic
Digital Noise Reduction	Yes
PIP Mode	Yes (set on Web UI or included remote control)
Auto Framing	Yes
Tracking Modes	Speaker Tracking with support for normal mode and smart gallery mode; Presenter Tracking

Panoramic Camera	
Lens	2MP, Fixed Lens
Sensor	CMOS, 2MP effective pixels
Video Format	<b>HDMI/SDI:</b> Fixed at 4K@30fps <b>USB3.0 Stream:</b> <b>MJPEG:</b> 1920x1080 @30fps
DFOV	120° W
Optical Zoom	Fixed

Interfaces	
Video Output	<b>1 x USB 3.0 Type-C</b> <ul style="list-style-type: none"><li>3.2 Gen 1, Bandwidth 5.0Gbps, backward compatible USB2.0</li></ul> <b>1 x HDMI 2.0</b> <ul style="list-style-type: none"><li>Fixed at 4K@30fps, no HDCP, mirror with camera video</li></ul>
DC Out	12V/3A DC Adaptor
USB-A	USB-A for USB peripheral devices, such as speakerphone
LAN Port	1 x 100Mbps, remote management
Lock	1 x Kingston Lock
Reset	1 x Reset Button

Microphones (Audio Tracking Function only)	
Microphone Array	4 x Built-in Microphones
Sensitivity	-26dbfs @ 94db SPL @ 1kHz
THD	0.2% @ 94db SPL @ 1kHz

General	
USB Protocol	UVC1.1
Configuration & Management	Web UI, IR Remote Control (included), API Commands
Mounting	On top of display, On wall, On table or tripod
Compatible OS	Windows 10/11; Mac OS 10.10 or higher
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-10°C to 70°C (14°F to 158°F)
Humidity	20% to 80%, non-condensing
Power Consumption	36W (12V, 3A)
Device Dimension (W x H x D)	7.87" x 4.25" x 2.64" (200mm x 108mm x 67mm)
Product Net Weight	0.95lbs. (0.43kg)
Environment	Indoor



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