

PTZ CAMERA EYE ONE

1080p, 10x optical zoom, 72° horizontal range

Low noise | Rich I/O interface | Silent pan and tilt movement | Remote control | Multi-preset support | Multi-application scenarios



Elegant and compact design



HELGI EYE ONE: BROADCAST-GRADE PTZ PERFORMANCE FOR ANY ENVIRONMENT

HELGI EYE ONE is a pan-tilt-zoom camera with an elegant design, compact size, and the flexibility to be installed on a wall or ceiling. It features advanced video image processing technology and supports major broadcast-level output formats such as H.265, H.264, and MJPEG, as well as a wide range of standard protocols — including TCP/IP, HTTP, ONVIF, Multicast, DHCP, and others. It integrates a new-generation 1/2.7" Full HD Exmor CMOS sensor, offering a maximum resolution of 1080P at 60 frames per second and 2.38-megapixel image quality for sharper, more realistic visuals.

With its broad range of video outputs, it supports simultaneous

streaming via USB 2.0 / HDMI / IP (RTSP/RTMP/RTMPS).

An extremely wide pan-tilt range ($\pm 178^\circ$ horizontally, -30° to $+90^\circ$ vertically) and a 72° horizontal field of view provide maximum operational coverage, making it a highly versatile solution suitable for any environment.

It also includes a built-in 3.5 mm audio interface, ideal for high-frequency AV transmission and real-time recording. It is an essential device for live streaming, professional broadcasting, video conferencing, education, telemedicine, and PROAV projects. The remote control and wall-mount bracket are included; the ceiling-mount bracket is optional and sold separately.

Front view



Side view



Rear view



Interfaces



10X OPTICAL ZOOM

Camera equipped with advanced video image processing technology and a Full HD Exmor CMOS sensor, offering 10X optical zoom and a maximum resolution of 1080P at 60 fps.

LOW LATENCY, REAL-TIME TRANSMISSION

The camera supports simultaneous video output via HDMI, IP streaming (RTSP, RTMP, RTMPS), and USB 2.0, delivering low-latency, real-time video transmission to meet broadcast-level demands.

WIDE FIELD OF VIEW

With a 72° horizontal field of view, the camera captures a broad visual area, ideal for large environments. Perfect for conferences, classrooms, studios, and live broadcasting, it allows multiple subjects to be framed without repositioning.

EXCELLENT COLOR REPRODUCTION, EVEN IN LOW LIGHT

Even under low light conditions, no auxiliary light source is required: the camera can deliver sharp, colorful images thanks to a light sensitivity of just 0.095 Lux and 2D/3D noise reduction technology.

LOW LATENCY, HIGH-SPEED STREAMING

Thanks to next-generation low-latency technology and reduced bandwidth consumption, HELGI Eye One is the ideal solution for managing Full HD 1080p video streaming.

ADDITIONAL FEATURES

Multi-interface simultaneous video output, high-precision motor with 0.01° accuracy, PoE power supply, support for VISCA, PELCO P/D, and ONVIF protocols, 255 programmable presets, remote control and wall-mount bracket included.



Videoconferencing

The camera is ideal for corporate meeting rooms, boardrooms, and webinar spaces. Thanks to its powerful optical zoom, precise tracking, and real-time transmission, it clearly frames speakers and participants—even in large environments. It can be seamlessly integrated with videoconferencing platforms such as Zoom, Microsoft Teams, and Webex, delivering sharp video and perfectly synchronized audio.

Education

The HELGI Eye One PTZ camera is ideal for classrooms, universities, and online courses. With support for up to 255 programmable presets, it allows seamless transitions between teacher, whiteboard, and students. Its Full HD image quality, even in low-light conditions, makes it suitable for any environment. Perfect for e-learning, hybrid lessons, and remote education, it enhances interaction between teachers and students.

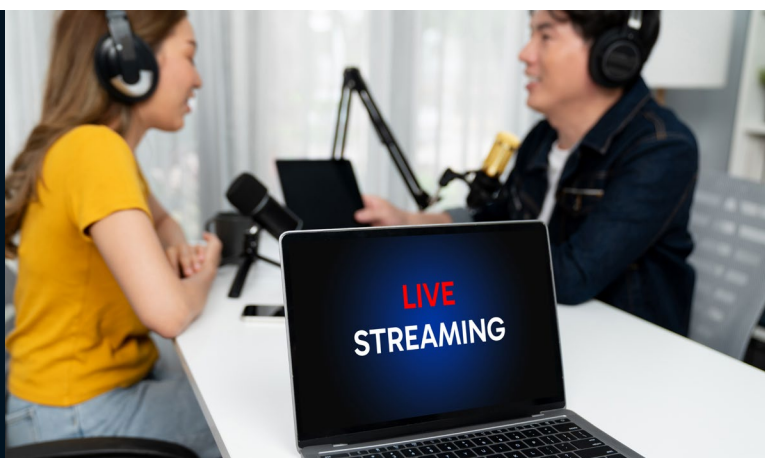


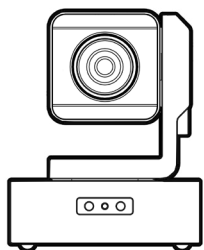
Telemedicine

Extremely useful in clinical and hospital settings for remote consultations, tele-surgery, or medical training, the HELGI Eye One delivers sharp images with ultra-low video noise, even in low-light conditions. Its precise movements ensure detailed viewing—essential in critical environments.

Streaming LIVE & Broadcast

The HELGI Eye One PTZ camera is designed for content creators, recording studios, and videocasting applications. With support for RTMP/RTMPS protocols, it enables live streaming on YouTube, Facebook, and Twitch with low latency and professional-grade quality. Its smooth optical zoom and precise pan/tilt movement allow you to capture every detail with fluidity and ease, ensuring dynamic and engaging video productions.





PTZ Camera × 1



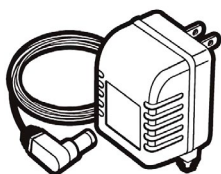
IR Remote control × 1



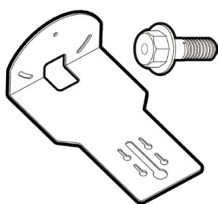
RS232 to DB 9 Pin
cable × 1



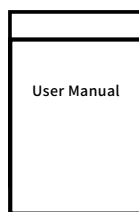
RS485 to 2Pin cable × 1



Power adapter
12V/ 2.0 A DC × 1

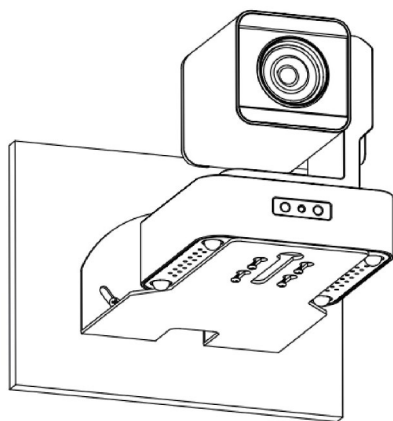


Wall mounting bracket × 1
Mounting screws × 8



User manual × 1

Mounting systems



WALL MOUNTING

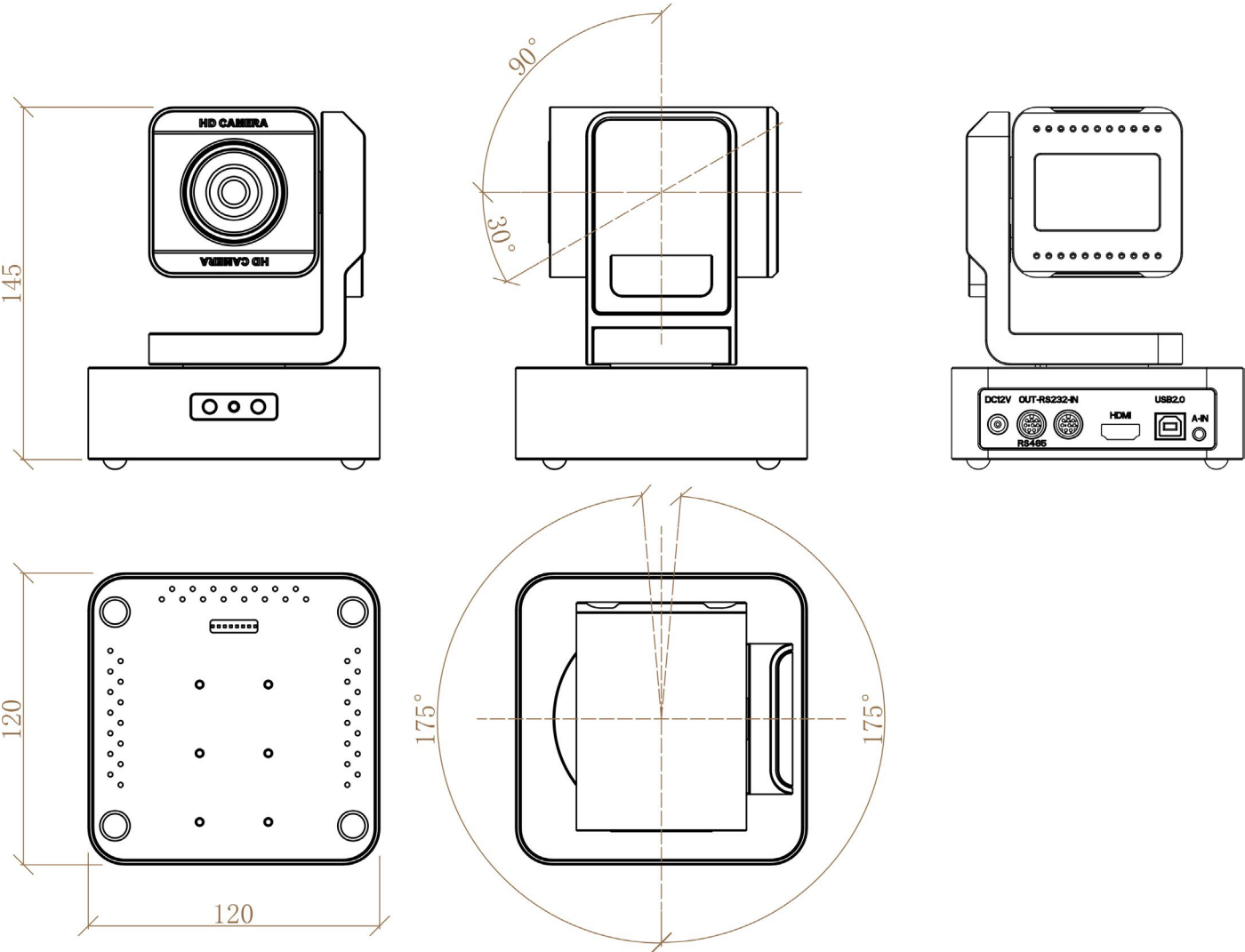
(Mounting bracket included in the package)



CEILING MOUNTING (code HLGEYE1_CLGMT)

(Optional bracket sold separately)

Code		HLGEYE1
OPTICS	Sensor	1/2.7" Exmor CMOS, 2.38 MP
	Optical zoom	10X (f=5.1-51.0 mm, F=1.6-3.5)
	Horizontal view angle	72°
	Min sensitivity	0.5 lux / 0.095 lux
	Shutter	1 ~ 1/10000 s
	Digital noise reduction	2D & 3D
VIDEO	Frame rate	1080P@60/59.94, 50, 30/29.97, 25; 1080i; 720P
	Video codecs	H.265/H.264/MJPEG, H.264 HP/SVC, H.263(+), H.261
	Video stream	Main stream, Sub stream
	Supported resolutions	1920×1080, 1280×720, 720×480, 320×240
	Bit rate	128K-8192K
	Audio input	1 channel, jack 3.5mm Line In
AUDIO	Digital noise reduction	2D & 3D
	Audio codecs	G.711, G.722, G.728, AAC
	Supported protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, ecc.
	Horizontal pan	±178°
CONTROL AND MOVEMENT	Vertical tilt	-30° ~ +90°
	Pan/Tilt speed	0.1° ~ 180°/s, 0.1° ~ 120°/s
	Preset	Fino a 255 (9 da telecomando)
	Image mirroring	Supported
	Video outputs	HDMI, Streaming IP, USB 2.0
	Communication protocols	RS232 IN/OUT, RJ45, RS485
POWER AND DIMENSIONS	Power supply	DC 12 V (JEITA) / PoE
	Max power consumption	DC 12 V - 1.5 A - 12 W
	Size	120mm × 120mm × 145mm
	Gross weight	1,4 kg
	Operating temperature	-10°C ~ 50°C
	Mounting	Ceiling / Wall / Tripod / Table





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