4K60 Dual-Lens AI PTZ Camera

DGLFH1102004 / DGLFH1102003 / DGLFH1102002

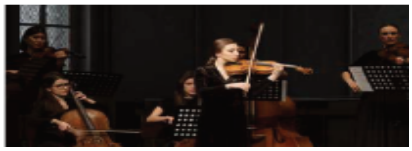


Description:

The DGLFH1102002 series combines a 4K CMOS sensor and high-quality UHD optics with up to 30x lossless optical zoom. Its dual-lens architecture combines a close-up PTZ lens with a panoramic lens for intelligent tracking and framing.

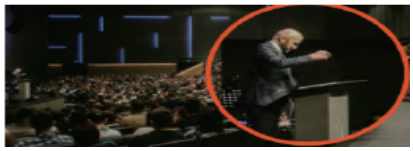
Features:

- 4K60 ultra-HD output with natural, detailed image quality.
- Up to 30x / 20x / 12x optical zoom options for different venue sizes.
- AI auto framing, presenter tracking, teacher tracking and gesture control.



4K60 Ultra-HD Video

An 8.46-megapixel 4K CMOS sensor delivers natural, detailed video up to 4K60 and supports 59.94/29.97 fps broadcast frame rates.



Up to 30x Optical Zoom

Choose 30x, 20x or 12x optical zoom to cover close-ups at different distances — from stages and auditoriums to classrooms.



AI Tracking & Framing

Auto framing, presenter tracking and gesture detection help capture moving speakers with less manual camera operation.



NDI HX3 & SRT

Network protocols support high-quality, low-latency video transmission across flexible IP production workflows.



Built-in Web UI

Configure, control, preview and maintain the camera in a web browser on Windows or macOS — no extra software required.



Dual-Lens Precision

A dedicated panoramic lens provides a wide view while the close-up PTZ lens follows subjects for smooth, precise tracking.

Technical Specifications

Optics, Image, PTZ & AI

MODEL	DGLFH1102004	DGLFH1102003	DGLFH1102002
CLOSE-UP CAMERA			
Image sensor	1/2.8-inch CMOS, 8.46 MP		
Zoom	30x optical; 16x digital	20x optical; 16x digital	12x optical; 16x digital
Focal length	f = 5.2–156 mm	f = 5.2–106 mm	f = 3.4–40.3 mm
Aperture	F1.6–F5	F1.6–F3.5	F1.8–F3.6
Horizontal FOV	56.5°–1.9°	56.5°–2.8°	81°–7.6°
Distortion correction	Supported		
PANORAMIC CAMERA			
Sensor / focal length	1/2.8-inch CMOS, 8.46 MP | f = 2.8 mm		
Aperture / field of view	F2 | Horizontal 94°; Vertical 62°		
IMAGE PARAMETERS			
Image style / noise reduction	One-touch image presets; 2D and 3D digital noise reduction		
Shutter / gain	1/25–1/10,000 sec; automatic or manual gain		
White balance	Auto, manual, indoor, outdoor, follow panoramic, fixed color temperature, one-push		
Backlight / WDR	Backlight compensation and wide dynamic range supported		
Exposure modes	Auto, manual, shutter priority, brightness priority, iris priority, follow panoramic		
Metering / SNR	Top, bottom, center, average, left or right; SNR ≥ 50 dB		
Independent settings	Close-up and panoramic image parameters adjustable separately; H/V flip		
PTZ & SOFTWARE			
Pan range / speed	-130° to +130°; 0.1°–80°/sec		
Tilt range / speed	-30° to +90°; 0.1°–60°/sec		
PIP / OSD	Configurable close-up/panoramic picture-in-picture and custom OSD text		
Presets / remote service	Preset freeze; Web UI configuration, firmware upgrade, reboot and reset		
Firmware upgrade	USB, Web browser or network management utility; Windows/macOS supported		
AI person tracking	Teacher, global automatic and selected-target tracking; full-body, half-body and close-up framing; target positioning; excluded areas; preset zones; remote control and gesture detection		
Auto framing / custom area	Multi-person framing, defined-area framing and person counting; user-defined tracking zones		

Technical Specifications

Connectivity & General

MODEL	DGLFH1102004	DGLFH1102003	DGLFH1102002
INTERFACES			
HDMI	1 × HDMI 2.0; switchable close-up / panoramic output. PCM 48 kHz stereo audio. Up to 3840 × 2160 at 60/50/30/25 fps (high-frame-rate mode; panoramic output disabled). Also supports 1080p, 720p and broadcast frame rates.		
HDBaseT (optional)	1 × HDBaseT, with audio; video resolutions and formats follow HDMI.		
3G-SDI	1 × 3G-SDI; switchable close-up / panoramic output. Supports 1080p at 60/50/30/25 fps, 720p modes, 1080i and 59.94/29.97 fps broadcast formats.		
Ethernet / PoE+	1 × RJ45, 10/100/1000 Mbps auto-negotiation, with standard PoE+ power support.		
IP video / protocols	H.264 and H.265; up to 4K60 close-up output when the panoramic stream is off; up to 4K30 with panoramic output. RTSP, RTMP(S), VISCA over IP, ONVIF, SRT, NDI HX3, TCP and UDP. Multi-stream output; Web UI and HTTP API.		
Network audio	AAC and G.711 audio encoding.		
USB	1 × USB 2.0 Type-B; UAC audio, UVC 1.1 video. H.264/H.265/MJPEG; up to 3840 × 2160 at 30/25 fps; additional 1080p/720p/VGA modes.		
Audio / REF	1 × 3.5 mm line input (AAC / G.711), 1 × reserved REF port.		
Serial control	1 × RS-232 IN and 1 × RS-232 OUT; daisy-chain connections supported.		
Power input	AC adapter: 100–240 V AC, 50–60 Hz; DC 12 V, 1.5 A output.		
GENERAL SPECIFICATIONS			
Presets / remote	Up to 256 presets (including Home); infrared remote control supported.		
Installation / control	Upright or inverted mounting; VISCA, PELCO-P and PELCO-D protocols.		
Power consumption	Less than 18 W.		
Operating environment	0–40°C; 10%–90% RH.		
Storage environment	-20 to 60°C; 10%–95% RH.		
Size / net weight	245 × 145 × 165 mm (L × W × H); 1.8 kg.		

Note: In 4K60 high-frame-rate mode, panoramic-lens video output is disabled. HDBaseT is optional. Please confirm final configuration and compatibility before ordering.