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BULLET · DUAL LIGHT

OV-HG12BS1-DA28

12MP Dual-Light Large-Sensor Bullet

- 12MP real-time video at 20 fps, H.265 / H.264
- Dual-light night vision: infrared or warm white light, auto / manual / off
- 1/2.0" large-format sensor for more light and detail
- Built-in microphone and speaker for two-way audio
- Smart analytics: intrusion, line crossing, loitering, personnel absence, illegal parking
- ONVIF Profile S / T / G for third-party NVRs; built-in PoE

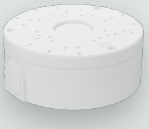


12MP

Dual Light · Two-Way Audio · PoE · MicroSD · Smart Analytics · ONVIF

RESOLUTION	SENSOR	NIGHT VISION	LENS
12MP	1/2.0"	Dual light	2.8 mm

Pair with the OV-JB120 junction box for a clean installation: connectors and cable slack stay inside the box, and the side conduit entry keeps surface-run cable tidy.



RECOMMENDED ACCESSORY

OV-JB120 Junction Box

Ø4.75 × 1.91 in (Ø120.6 × 48.4 mm) · conceals connectors and cable slack · side conduit entry

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12MP Dual-Light Large-Sensor Bullet · Technical Specifications

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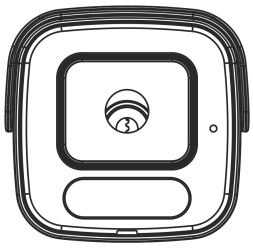
CAMERA	
Image sensor	1/2.0" progressive scan CMOS
Minimum illumination	0.1 lux
Lens	Fixed 2.8 mm
Day / night	ICR; auto / color / B&W / external trigger / scheduled
Supplement light	IR + warm white dual light; auto / manual / off; brightness 0–100
Supplement light distance	IR 131 ft (40 m) / warm light 98 ft (30 m)
Shutter	Auto electronic shutter

VIDEO	
Compression	H.265 / H.264, dual stream
Main stream	4000 × 3000 / 3200 × 2400 / 2880 × 2160 / 2592 × 1944 / 2304 × 1728 / 2048 × 1536 / 1600 × 1200 / 1920 × 1080 @ 20 fps
Sub stream	D1 / VGA / 864 × 480 / 640 × 360 @ 20 fps
Bitrate control	CBR / VBR
OSD	Time, title, multi-line text

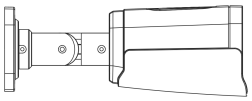
IMAGE	
WDR	True WDR
Exposure	BLC / HLC; shutter priority / gain priority
3D DNR	Off / Low / Medium / Higher / High
Defog	Supported
Image adjustment	Brightness, contrast, sharpness, saturation, hue
Mirror	Off / horizontal / vertical / 180° rotation
Privacy mask	4 areas

SMART	
AI events	Region intrusion, line crossing, loitering, personnel absence, illegal parking (person / vehicle)
Smart light control	No dimming / dim on person / dim on license plate
Motion detection	Full screen or region, multi-level sensitivity
Tamper alarm	1 area
Exception alarm	Network disconnected, IP conflict, illegal access
Event linkage	Email, FTP snapshot, light alarm, sound alarm

DIMENSIONS (DRAWING IN MM)



Front · 2.91 × 2.80 in (74 × 71 mm)



Side · 7.52 in (191 mm) incl. bracket

AUDIO	
Audio	Built-in microphone and speaker, two-way audio
Audio compression	G.711u / G.711A / AAC

NETWORK	
Interoperability	ONVIF Profile S / T / G, RTSP
Protocols	TCP/IP, UDP, HTTP, HTTPS, DHCP, RTSP, RTMP, FTP, Email
Security	User authentication, HTTPS, RTSP authentication
Live view	Up to 4 simultaneous streams
Remote access	Web browser, mobile app, PC client

INTERFACE	
Network	RJ45, 10/100M auto-negotiation
Power	DC 12 V / PoE
Storage	MicroSD card slot
Reset	Supported

GENERAL	
Housing	Bullet, White
Dimensions	2.91 × 2.80 × 7.52 in (74 × 71 × 191 mm) incl. bracket
Ingress protection	IP67
Operating temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating humidity	0–80% RH
Compliance	NDAA Section 889

ORDERING INFORMATION

OV-HG12BS1-DA28	12MP Dual-Light Large-Sensor Bullet, 2.8 mm
OV-JB120	Junction Box (optional)