



Omada Security Camera | Datasheet

Omada 12MP Turret

Omada 12MP Turret PoE Security Camera



Highlights

- 4K+ (12MP) Ultra HD and Full-Color Night Vision
- Red & Blue Flashing Lights and Siren
- Secure Remote Control via App
- Human/Vehicle/Pet Detection
- Flexible Local Storage
- Smart IR & Color Night Vision Switch
- IP67 Weatherproof and IK08 Vandal Proof
- All-Metal Housing
- H.265+ Compression Technology

Feature Descriptions



4K+ 12MP Ultra HD

See every detail—faces, license plates, and critical moments—with precision clarity.



Full-Color, Day and Night

Built-in spotlights reveal true colors and accurate details 24/7.



Flexible Local Storage

Supports onboard microSD* (up to 512 GB) or NVR storage for local recording.



Red & Blue Flashing Lights and Siren

Actively deter intruders to protect you and your property.



Person/Vehicle/Pet Detection

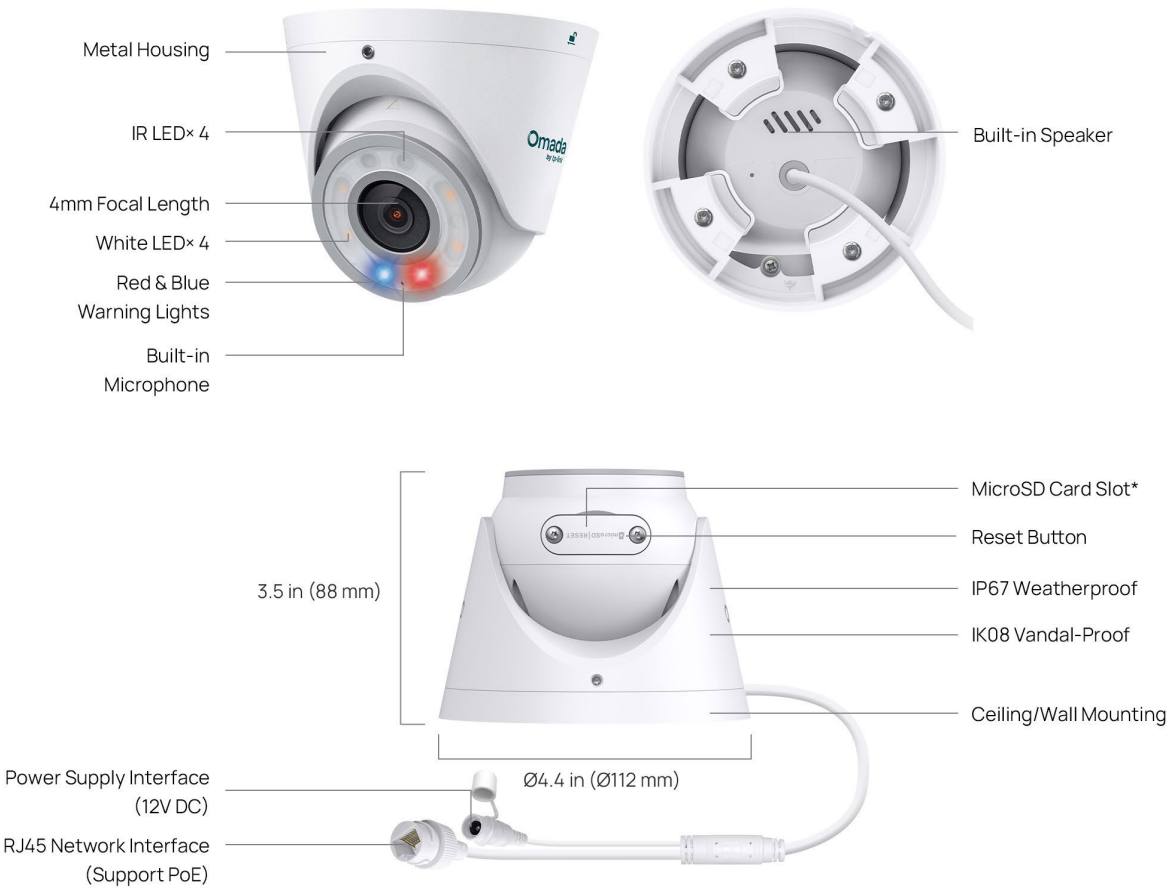
Smartly identifies people, vehicles, and pets, reducing false notifications.



Two-Way Audio

Talk to visitors or scare off intruders via the app, using the built-in mic and speaker.

Build Features



Specifications

Model		Omada 12MP Turret
Camera	Image Sensor	1/2.49" Progressive Scan CMOS
	Shutter Speed	0.075 to 1/20,000 s
	Slow Shutter	Yes
	Minimum Illumination	0.005 Lux; 0 Lux with IR/White Light
	Day/Night Mechanism	IR Cut Filter
	Day/Night Switch	Auto
Lens	Type	Fixed Focal Lens
	Focal Length	4 mm
	Aperture	F1.6
	FOV	• Horizontal FOV: 101.5° • Vertical FOV: 49.2° • Diagonal FOV: 119.4°
	Lens Mount	M12
	DORI Distance	4 mm: • D: 400 ft (122 m) • O: 167 ft (51 m) • R: 82 ft (25 m) • I: 39 ft (12 m)
Angle Adjustment (Manual)	Range	Pan: 0° to 360°, Tilt: 0° to 85°, Rotation: 0° to 360°
Illuminator	IR LED	• Quantity: 4 • Range: 98 ft (30 m) • IR Wavelength: 850 nm
	White LED	• Quantity: 4 • Range: 98 ft (30 m)
	Illuminator On/Off Control	Auto/Always on/Always off
Video	Max. Resolution	4512x2512
	Main Stream	• Frame Rate: 50Hz: 25fps (4512x2512, 3840x2160, 2560x1440, 2304x1296, 2048x1280, 1920x1080, 1280x720) 60Hz: 30fps (4512x2512, 3840x2160, 2560x1440, 2304x1296, 2048x1280, 1920x1080, 1280x720) • Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps. If supplement light is on, the frame rate only supports up to 20fps.
	Sub-Stream	• Frame Rate: 50Hz: 25fps (840x480,704x576,640x480, 640x360, 352x288, 320x240) 60Hz: 30fps (840x480,704x576,640x480, 640x360, 352x288, 320x240) • Note: If the image rotation is set to 90° or 270°, the frame rate only supports up to 20fps. If supplement light is on, the frame rate only supports up to 20fps.

Model		Omada 12MP Turret
Video	Bit Rate Control	CBR, VBR
	Video Compression	• Main Stream: H.265+/H.265/H.264+/H.264 • Sub-Stream: H.265/H.264
	H.264 Type	High Profile
	H.264+	Main Stream Supported
	H.265 Type	Main Profile
	H.265+	Main Stream Supported
	Video Bit Rate	• Main Stream: 256 Kbps to 12288 Kbps • Sub-Stream: 64 Kbps to 1024 Kbps
Image	Image Settings	• Mirror • Rotation • Contrast • Brightness • Saturation • Sharpness • Exposure • White Balance
	Image Enhancement	BLC/3D DNR/SmartIR
	Wide Dynamic Range	DWDR
	SNR	≥ 52 dB
	Image Parameters Switch	Yes
	Privacy Mask	Up to 4 Masks
	OSD Setting	Yes
Audio	Audio Communication	Two-Way Audio
	Audio Input	Yes (Built-in Microphone)
	Audio Output	Yes (Built-in Speaker)
	Audio Compression	Yes
	Audio Sampling Rate	8KHz, 16KHz
	Environment Noise Filtering	Yes
	Audio Bit Rate	64 Kbps(G.711 alaw, G.711 ulaw)
Network	Protocol	TCP/IP, UDP, ICMP, ARP, SMTP, RTMP, HTTP, HTTPS, DHCP, DNS, RTSP, RTP, NTP, IPv4, IPv6, UPnP, SSL/TLS, FTP/SFTP
	ONVIF	Yes
	API	Open Network Video Interface (Profile G/S/T)
	Simultaneous Live View	3 Main Streams & 10 Sub-Streams
	Client	Web UI, Omada Guard App, Omada Cloud-Based Controller (Guard)
	Web Browser	• Google Chrome® 57 and above • Firefox® 52 and above • Safari® 11 and above • Microsoft® Edge 91 and above
	Cloud	Yes
	Security	Password Protection, HTTPS Encryption, IP/MAC Restriction, Digest Authentication, 802.1X Authentication

Model		Omada 12MP Turret
Alarm and Event Management	Event	• Motion Detection (Human Detection, Vehicle Detection, Pet Detection) • Line Crossing Detection • Intrusion Detection • Camera Tampering
	Alarm Linkage	• Memory Card Video Recording • Upload to FTP Server • Push Notifications • Active Defence-Sound Alarm • Active Defence-Light Alarm • Email Alarm
Interfaces	Network Interface	1 RJ45 10/100M Self-Adaptive Ethernet Port, PoE
	Reset Button	Yes
	Power	DC Power Port
	On-board Storage	Built-In Memory Card Slot, Support MicroSD Card, up to 512 GB*
	Built-in Microphone	Yes; Records Anything Going on within a 16.4-ft (5 m) Radius of the Camera
	Built-in Speaker	Yes
General	Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
	Storage Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
	Operating Humidity	95% or Less (Non-Condensing)
	Storage Humidity	95% or Less (Non-Condensing)
	Package Content	• Omada Network Camera • Waterproof Cable Attachments • Network Cable (3 ft/1 m) • Mounting Template • Mounting Accessories • Screwdriver • GNU General Public License Notice • Installation Guide • Surveillance Sticker
	Material	Metal
	Net Weight	0.5 Kg
	Power Supply	• 12V DC ± 5%, Max. 12 W, 5.5 mm Coaxial Power Plug • PoE: 802.3af/at, Max. 14 W
	Protection	• IP67 Weatherproof • IK08 Vandal Proof
	Product Dimensions (L x W x H)	4.4 × 4.4 × 3.5 in (112 × 112 × 88mm)
	Certifications	CE, NTRA, FCC, IP67, IK08, VCCI, BSMI, ONVIF

Model	Omada 12MP Turret	
Dimensions	2.82[71.6] 3.50[88.0] Unit: inch [mm]	Ø4.42[112.2]

*The microSD card is not included in the package.

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