

# AI12 360° Camera

High-resolution 360° fisheye camera  
with built-in IR



The March Networks® **AI12 360° Camera** delivers complete situational awareness from a single mounting point, using a 12MP fisheye sensor to capture a full 360° view ideal for retail, banking, QSR, lobbies, and other open areas. Its high-resolution 2816x2816 imaging supports clear dewarping, virtual PTZ, and multi-angle monitoring without the need for multiple cameras.

Smart IR II provides up to 20 m of adaptive illumination for consistent nighttime detail, while WDR Pro and advanced image controls ensure balanced, actionable video in challenging lighting. Operators can easily navigate immersive 360° scenes or focus on specific areas with local or client-side dewarping.

Built-in intelligent analytics—including running detection, parking and restricted zone alerts, and people/vehicle attribute classification—streamline investigations and integrate seamlessly with March Networks software. Full-duplex audio adds real-time awareness through a built-in microphone and optional external audio connections.

Rugged IK10 and IP66 construction, wide temperature tolerance, PoE support, and up to 1TB of edge storage make the AI12 360 a reliable, cost-effective solution for organizations needing wide-area visibility and intelligent monitoring in both indoor and outdoor environments.

## Key Benefits

- ▼ **Full Coverage from One Camera.** Monitor an entire area at once, reducing blind spots and minimizing the number of cameras needed.
- ▼ **Reliable Clarity Day or Night.** Get consistent, usable video in bright, mixed, or low-light environments to support accurate investigations.
- ▼ **Smarter Detection and Search.** Identify key behaviors and quickly find people or vehicles with advanced, built-in analytics.
- ▼ **Ready for Tough Environments.** Dependable indoors or outdoors, even in demanding locations with high traffic or harsh weather.
- ▼ **Enhanced Awareness with Audio.** Hear and communicate in real time to improve response and situational insight.
- ▼ **Easy to Deploy and Manage.** Works seamlessly with existing systems and reduces storage and bandwidth demands.
- ▼ **Lower Total Cost of Ownership.** Replace multiple fixed cameras with one panoramic device for simpler installation and reduced ongoing costs.

*Get high-resolution 360° coverage and intelligent analytics in a single NDA A-compliant device designed for maximum situational awareness.*

# AI12 360° Camera

## CAMERA

Image Sensor	1/2.3" Progressive CMOS in 4056x3040
Effective Pixels	2816x2816
High Dynamic Range (HDR)	WDR Pro
Day/Night	Automatic IR cut filter
IR Illumination Distance	20 meters (50IRE) with Smart IR II, IR LED*4
Shutter Speed	1/5s to 1/32000s
Camera Angle Adjustment	Fixed Focal with Fisheye lens
White Balance	Manual/Automatic
Minimum Illumination	0.1 lux @ F2.18 (Color) <0.005 lux @ F2.18 (B/W) 0 lux with IR illumination on

## LENS

Optical Zoom	N/A
Lens	Fisheye lens 1.18 mm; F2.18
Field of View	180° (Horizontal) 180° (Vertical) 180° (Diagonal)

## VIDEO

Video Compression	H.265, H.264, MJPEG
Resolution	2816x2816
Frame Rate	30fps @ 2816x2816 (WDR off) 20fps @ 2816x2816 (WDR on)
Streaming	3 video streams (Up to 8 profiles) in H.265, H.264, MJPEG
Image Settings	Video title and time stamp overlay, video orientation (flip, mirror), day/night settings, anti-overexposure image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, BLC, exposure control, AE speed adjustment, WDR, privacy mask, scheduled profile settings, pixel calculator
Dewarping	Client and local dewarping

## AUDIO

Audio Streaming	Two-way audio (full duplex)
Audio Compression	G.711, G.726
Audio Input	Built-in microphone

## NETWORK

Security	Access list, digest authentication, HTTPS, IEEE 802.1x, password protection, user access log, user account management
Supported Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS (Cos/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP

## SYSTEM INTEGRATION

Video Analytics	Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, crowd detection, smart motion detection
Alarm Trigger	Audio detection, cybersecurity events, camera tampering detection, analytics, digital inputs
Alarm Events	Video recording to local storage, external output activation

## ELECTRICAL

Power	12 V= PoE IEEE 802.3at PoE Class 4
Power Consumption	12 V= PoE Max. 22.8W, PoE Max. 12.5W

## PHYSICAL

Construction	Metal housing
Dimensions (D x H)	150 x 68.4 mm (5.91 x 2.69 in)
Weight	701 g (1.55 lb)

## ENVIRONMENTAL

Operating Temperature	-40 °C to +50 °C (-40 °F to +122 °F) (IR On) -40 °C to +55 °C (-40 °F to +131 °F) (IR Off)
Humidity	90% RH, non-condensing
Ingress Protection Rating	IP66
Impact Rating	IK10
Shock	N/A
Vibration	N/A

## USER CONNECTIONS

Alarm	Digital input 1
Audio	Built-in Microphone, Audio input
Ethernet	RJ45
Serial	N/A
Power	M-12 PoE / RJ45 PoE (through included adapter)

## GENERAL

Local Storage	MicroSD/MicroSDHC/MicroSDXC memory card up to 1TB (not included)
LED Indicator	Power, Activity
Included Accessories	Quick installation guide, alignment sticker, mounting hardware, desiccant bag

## REGULATORY

Regulatory Model	C5001A
Safety	UL/CSA 62368-1, IEC/EN 62368-1
EMC	EN55022, EN61000-3-2, EN61000-3-3, FCC part 15 Subpart B, ICES-003, CISPR 32 AS/NZS CISPR 32, EN 55035
Environmental	RoHS, WEEE
Compliance Marking	CE cULus, RCM, UKCE

## ORDERING INFORMATION

<b>CAMERA</b>	
43215-101	AI12 360 Camera
<b>ACCESSORIES</b>	
41190	Mount Cap
42360	Pendant Pipe 20cm
42361	Pendant Pipe 40cm
42359	Pendant head (outdoor)
42365	Pendant head Indoor
42169	Wall Mount Bracket
42362	Wall Mount Gooseneck
42363	Waterproof Junction Box
41867	Outdoor Conduit box (matches 42362)
40745	Pole Mount adapter (matches 42363)
42366	Pole Mount adapter (matches 42363)
40747	Corner Mount (matches 42169)
42678	Corner Mount (matches 42363)

### 5-year warranty:

- Option for Advance Replacement or Repair and Return.
- No need to issue a PO prior to receiving the replacement.
- March Networks incurs all shipping costs — both ways — for Advance Replacements.