

## MIC-9502-Z30WQS PTZ thermal QVGA-19mm 2MP 30x 9Hz, white MIC IP FUSION 9000i



- ▶ Ruggedized IP PTZ camera with high performance thermal imager and HD visible imager sitting side-by-side
- ▶ Designed to provide the highest availability of useable images regardless of lighting conditions in extreme environments (weather, dust/debris/smoke, etc.)
- ▶ Unique metadata fusion feature provides the ultimate in situation awareness
- ▶ Exceptional early detection capabilities: Object detection up to 4517 m (14,820 ft) based on DRI criteria
- ▶ Advanced on-board intelligent video tracking, object detection even when camera is on tours

The MIC IP fusion 9000i camera is an advanced PTZ surveillance platform designed to provide early detection in mission-critical applications. With its dual visible/thermal imaging capabilities, the MIC IP fusion 9000i camera is the perfect solution for robust and high-quality imaging needs.

The camera's distinctive, ruggedized design is well-suited for extreme environments and adverse weather conditions such as high winds, rain, fog, ice, and snow.

Precision engineered using Bosch's domain expertise in material and mechanical engineering, the camera offers the most advanced imaging and positioning system solution available on the market.

### Functions

#### Exceptional imaging performance

The MIC IP fusion 9000i camera incorporates a high-performance thermal imaging core and a 1080p starlight camera integrated in the same housing. This allows the camera to deliver simultaneous thermal and visible video streams, maximizing the ability to detect and react to long-range threats.

#### Thermal imager

The thermal imager incorporates the latest un-cooled vanadium oxide microbolometer technology. This high sensitivity thermal imager is equipped with a fixed focal length Athermal lens that balances the field-of-view with maximizing the detection distance. User-adjustable settings for contrast and gain allow operators to optimize the image, ensuring delivery of the highest quality video. In addition, a wide variety of user-selectable thermal color modes are available allowing further optimization of the thermal image. Depending on model mix, QVGA resolution (320 pixels) and VGA resolution (640 pixels) versions are available, with choice of low (<9Hz) or high (30Hz) frame rates.

#### Visible imager

The 1080p60-capable visible imager has starlight technology and a 30x optical/12x digital zoom lens that provides high-quality images, excellent color performance, and unbeatable low-light sensitivity. High dynamic range ensures clear image reproduction in the most challenging high-contrast scenes.

#### Ruggedized design for extreme applications

The MIC IP fusion 9000i camera is designed for surveillance applications beyond the mechanical capabilities of normal PTZ domes or conventional positioning systems.

- **Ingress**

The camera is environmentally sealed and complies with Type 6P and IP68 standards, when attached to a MIC-DCA or a MIC-WMB. This level of protection eliminates any risk of dust or water ingress, making the camera a perfect choice for use in extreme environments with rain, dust, snow, flying debris, and other challenging conditions.

In addition, the MIC camera's ingress protection method does not need periodic maintenance, which is required on cameras with pressurized housings.

- **Wide operating temperature range**

The camera's operating temperature range of -40 °C to +65 °C (-40 °F to +149 °F) enables reliable surveillance monitoring in global locations from cold northern latitudes to hot equatorial and desert regions.

- **Rugged construction**

The all-metal body has been engineered to withstand IK10-level impacts, and continuous low-frequency vibration. With its symmetrical, cross-section designed surfaces, the camera is also well-suited to operating in sites with high wind conditions.

- **Excellent corrosion protection**

The camera benefits from Bosch Automotive domain knowledge in material engineering and coatings. As a result, the superior metallurgy, chromate based pre-coating, and paint finish of the camera provides unprecedented protection against corrosion. Reliability is ensured by the camera's ability to withstand a 2000-hour salt atmosphere at elevated temperature corrosion resistance test, according to the ASTM B117 test method.

- **Window Wiper and Defroster**

The camera features a highly durable, silicone wiper which removes moisture from both the glass and germanium windows. In addition, both windows incorporate embedded defrosters that minimize build-up of snow and ice, ensuring the highest-possible image details in extreme cold and moist conditions.

The wiper can also be integrated with third-party washer systems for regular cleaning and maintenance activities.

### **Intelligent Video Analytics on the edge**

The camera includes the latest release of Intelligent Video Analytics for monitoring both the visible and the thermal image streams.

Designed for mission-critical applications, the video analytics can reliably detect, track, and analyze moving objects while suppressing unwanted alarms from spurious sources in the image, even in harsh weather conditions.

Advanced tasks like multiple line crossing, loitering, idle / removed object detection, crowd density estimation, occupancy and people counting are

available for live alarming and forensic search. Object filters based on size, speed, direction, aspect ratio, and color can be defined.

Set-up time is minimized because only the installation height of the camera must be entered to calibrate the analytics.

After the camera is calibrated, the analytics engine can automatically classify objects as upright person, car, bike, or truck.

### **Video Analytics while camera is moving**

The Intelligent Video Analytics can trigger an alarm when the visible imager detects objects in motion in alarm fields while the camera is moving.

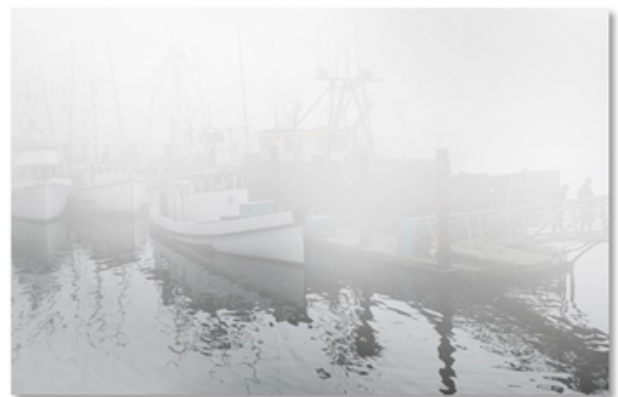
These alarm fields are defined once across all PTZ camera views. Any part of those fields that is currently within the camera's view becomes active. Thus, guard tours sweeping across the monitored areas in order to provide an intruder less time to slip by can now automatically alarm on those intruders as well.

If desired, the alarm can even be used to trigger the camera's Intelligent Tracking feature.

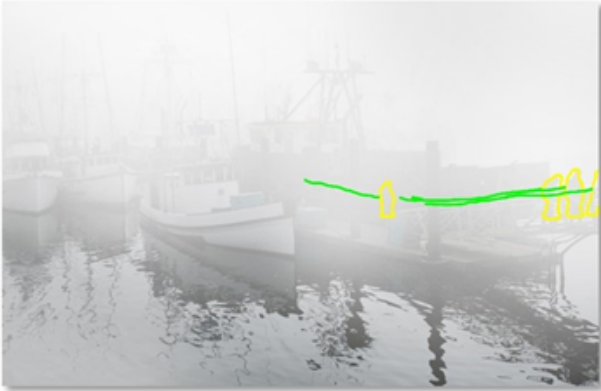
### **Metadata Fusion imaging**

The metadata fusion feature enables operators to receive notification of detected events from both thermal and visible image streams, regardless of which image stream they are viewing. This gives operators a much higher level of situational awareness, and eliminates the need to monitor both visible and thermal images constantly.

For example, a standard camera viewing a scene with limited visibility produces an image such as the one below.



The same scene viewed using the visible imager of the MIC IP fusion 9000i camera would include metadata fusion events detected by the thermal imager, as shown below.



Once alerted, operators can switch to the thermal image (below) of the scene, where they can easily see the objects creating the alarm. Hence, the metadata fusion feature provides enhanced situational awareness.



### Intelligent Tracking

The newest generation of the Intelligent Tracking feature ensures smoother camera motion for more comfortable viewing and more reliable tracking of objects even under challenging scenes.

On the visible imager, when Intelligent Video Analytics application detects objects or individuals, the camera can automatically activate the Intelligent Tracking feature, which controls the pan/tilt/zoom actions of the camera in order to track objects and keep them in view.

Areas with potentially interfering background motion (moving trees, pulsating lights, and busy roads) can be masked out.

The camera supports 2 Intelligent Tracking modes:

- **Auto mode:** In this mode, the camera follows any object that has triggered an alarm in the Intelligent Video Analytics application. This mode is most useful for scenarios where the alarm cases can be clearly defined, for example, when no motion is expected at all.

- **Click mode:** In this mode, users can click on any object detected by the Intelligent Video Analytics application to enable the camera to track the movement of the selected object. This mode is most useful for scenarios where normal scene activity is expected.

### H.265 Video encoding

The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. The camera is capable of delivering high-quality and high-resolution video with very low network load. With a doubling of encoding efficiency, H.265 is the compression standard of choice for IP video surveillance systems.

### Intelligent streaming

Smart encoding capabilities, together with Intelligent Dynamic Noise Reduction technology and analytics, make the bandwidth consumption drop to extremely low levels. Only relevant information in the scene, such as motion or objects found with the analytics, are encoded.

The camera is capable of providing 4 streams of thermal video and 4 streams of HD visible video simultaneously (8 streams total). This allows the camera to deliver independent, configurable streams for live viewing, recording, or remote monitoring via constrained bandwidths.

### Image Stabilization

Cameras on unstable mounts can move sufficiently to change the field of view. The higher the zoom value, the larger the change of the field of view. This change can make images unusable.

The camera has an Image stabilization algorithm that lets the camera sense continuous vibration. If it detects vibration, the camera corrects the shaky video in the vertical axis and the horizontal axis. The result is excellent image clarity and a stable field of view on the monitor. The Image stabilization function is important to eliminate movement that unstable camera mounts cause.

Note: Image stabilization is available on the visible camera only.

### Other Features

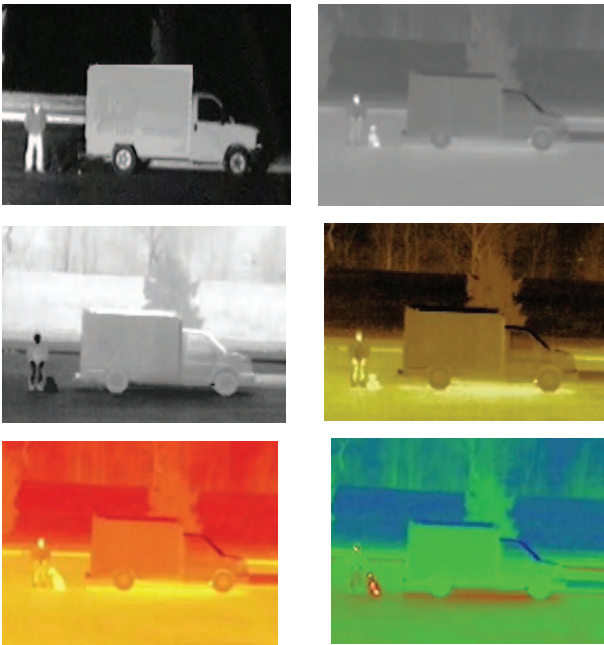
The camera includes many advanced features that work to maximize performance and satisfy the most demanding system operation requirements.

#### • Scene modes

The camera has a very intuitive user interface that allows fast and easy configuration to optimize image quality.

The visible imager has five user-selectable scene modes with pre-configured settings that optimize the imaging for a variety of applications, including Motion, Low light, and Vibrant. Operators can select different scene modes for day or night situations.

The thermal imager has 12 user-selectable thermal mode options, including White hot, Black hot, Red Light, Softlight, and Sunset.



Examples of visible and thermal color modes

### Recording and storage management

The Bosch Video Recording Manager application can control recording management for the camera. Alternately, the camera can use its embedded local storage and iSCSI targets directly without any recording software.

The camera's embedded local storage (internal EMMC-based memory) can be used for recording "at the edge" or for Automatic Network Replenishment (ANR) to improve the overall recording reliability. At the worst case--full streaming conditions, comprising both visible and thermal image streams, metadata, and audio--up to 4 hours of local storage time is possible.

Furthermore, pre-alarm recording is available to capture details of an incident before the alarm actually occurs.

### High performance PTZ operations

The camera has a closed-loop feedback control system using a 15-bit position resolver. This resolver ensures high accuracy coordinates are linked with every pan/tilt position. Because the camera always knows where it is pointed, it will return automatically to its original position even if moved by extremely high winds.

The pan and tilt mechanism of the camera is a ruggedized, spur gear system. The brushless motors directly control the pan and tilt movement using a finely-tuned gear train designed to minimize backlash and support continuous operation without much wear and tear.

With a full 360° continuous rotation pan, 296° tilt control, and super-quick pan (120°/second) and tilt (90°/second) operational speeds, the camera outperforms other cameras in its class.

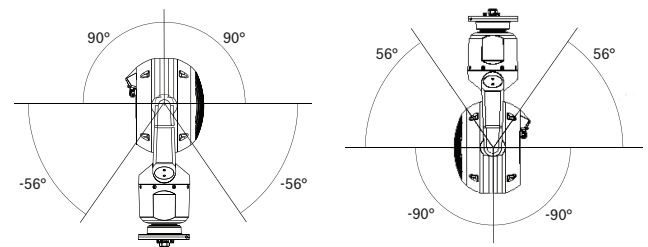


Fig. 1: Tilt range of MIC IP fusion 9000i camera

The camera's ability to operate at very slow speeds (<0.2°/second) means it excels at tracking slow-moving objects or objects at a distance.

The camera supports 256 pre-positions and two styles of Guard Tours: Preset and Record/Playback. One preset tour has capability for up to 256 consecutive pre-positions and the other with up to 256 user-defined pre-positions. Both offer configurable dwell time between pre-positions.

The camera also provides support for two custom recorded tours, which have a combined duration of 30 minutes of movements. The custom tours are recorded macros of an operator's movements, including pan, tilt, zoom, focus and pre-position activities. Operators can play back tours in a continuous manner.

### System integration and ONVIF conformance

The camera conforms to the specifications for ONVIF Profile S, ONVIF Profile G, and ONVIF Profile M. (ONVIF is the acronym for Open Network Video Interface Forum.) For H.265 configuration, the camera also supports Media Service 2, which is part of ONVIF Profile T. Compliance with these standards guarantees interoperability between network video products, regardless of manufacturer. Third-party integrators can easily access the internal feature set of the camera for integration into large projects. For more information, see the Bosch Integration Partner Program (IPP) website ([ipp.boschsecurity.com](http://ipp.boschsecurity.com)).

### Access and Data Security

Special measures are necessary to ensure the highest level of security for device access and data transport. On initial setup, the camera is only accessible over secure channels. You must set a service-level password in order to access camera functions. Web browser and viewing client access can be protected using HTTPS or other secure protocols that support state-of-the-art TLS 1.2 protocol with updated cipher suites including AES encryption with 256 bit keys. No software can be installed in the camera, and only authenticated firmware can be uploaded. A three-level password protection with security recommendations allows users to customize device access. Network and device access can be protected using 802.1x network authentication with EAP/TLS protocol. Superior protection from malicious attacks

is guaranteed by the Embedded Login Firewall, on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support.

The advanced certificate handling offers:

- Self-signed unique certificates automatically created when required
- Client and server certificates for authentication
- Client certificates for proof of authenticity
- Certificates with encrypted private keys

### Regulatory information

For a full list of all related certifications/standards, refer to the Product Tests Report, available on the online catalog, on the Documents tab of the product page for your device. If the document is unavailable on the product page, contact your sales representative.

### HD standards

- Complies with the SMPTE 274M-2008 Standard in:
  - Resolution: 1920x1080
  - Scan: Progressive
  - Color representation: complies with ITU-R BT.709
  - Aspect ratio: 16:9
  - Frame rate: 25, 30, 50 and 60 frames/s
- Complies with the 296M-2001 Standard in:
  - Resolution: 1280x720
  - Scan: Progressive
  - Color representation: complies with ITU-R BT.709
  - Aspect ratio: 16:9
  - Frame rate: 25, 30, 50 and 60 frames/s

Standards	Type
Emissions	EN 55032 class A FCC: 47 CFR Part 15 B, class A RCM: AS/NZS CISPR 32
Immunity	EN 50130-4 EN 50121-4
Environmental	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-30
Safety	EN 60950-22 CAN/CSA C22.2 No. 62368-1-14, Ed. 2 EN 62368-1 UL 62368-1
Marks	UL, CE, WEEE, RCM, EAC*, FCC, RoHS, VCCI, CMiM

ISO Quality Systems	ISO 9001 ISO 14001
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\* Not available for 9mm models.

### Parts included

Quantity	Component
1	MIC IP fusion 9000i camera
1	Quick Installation Guide
1	base gasket
1	RJ45 coupler
4	MAC address labels
1	ground screw

### Technical specifications

Imager	Focal Plane Array (FPA), un-cooled Vanadium Oxide microbolometer
Resolution/Effective Picture Elements	320 x 240
Pixel Pitch	17 µm
Frame rate	<9Hz
Lens	Athermal 19 mm (F1.1)
Field of View (FOV)	16° x 12°
Spectral Response	8 to 14 µm
Thermal Sensitivity (NEDT)	<62mK (at room temperature; Noise Reduction ON)
Focus	Factory-set at infinity
Focus Distance	14 m to ∞ (46 ft to ∞)
Contrast enhancement	On/Off
Gain Level	User-adjustable
Brightness Level	User-adjustable
Noise reduction	On/Off

User-selectable thermal color modes	12	
<b>Approximate Performance Range in ideal conditions based on DRI criteria**</b>	<b>Human 1.8 x 0.5 m (5.9 x 1.6 ft)</b>	<b>Object 2.3 x 2.3 m (7.5 x 7.5 ft)</b>
<b>Detection</b>	379 m (1243 ft)	1746 m (5728 ft)
<b>Recognition</b>	95 m (312 ft)	436 m (1430 ft)
<b>Identification</b>	47 m (154 ft)	218 m (715 ft)
Lens	30x motorized Zoom 4.3 mm to 129 mm F1.6 to F4.7	
Field of View (FOV)	2.3° to 64.7°	
Focus	Automatic with manual override	
Iris	Automatic with manual override	
Digital Zoom	12x	
Resolution	Full HD (1080p)	
Imager	1/2.8-type Exmor R CMOS sensor	
Effective Picture Elements (Pixels)	1945 x 1097 (2.13 MP)	
Sensitivity (3100K, reflectivity 89%, 1/30, F1.6, 30 IRE)	Color 0.0077 lx	Monochrome 0.0008 lx
Gain Control	AGC, Fixed	
Aperture Correction	Horizontal and vertical	
Electronic Shutter Speed (AES)	1/1 sec to 1/30,000 sec (22 steps)	
Signal-to-Noise Ratio (SNR)	>55 dB	
Day/Night switch	Automatic IR cut filter	
White Balance	2000 K to 10,000 K ATW, AWB Hold, Extended ATW, Manual, Sodium Lamp Auto, Sodium Lamp	
Day/Night	Monochrome, Color, Auto	
Intelligent Defog feature	Improves visibility when viewing foggy or other low-contrast scenes.	

High dynamic range (HDR)	120 dB (25/30 fps)
Standard/Video compression	H.265, H.264 (ISO/IEC 14496), M-JPEG, JPEG
Streaming	Four (4) streams: Two (2) configurable streams in H.264 or H.265 One (1) I-frames-only stream based on first stream One (1) M-JPEG Stream Regions of Interest (ROI)
Supported Streams	SD 720p 1080p D1 4:3 (cropped) 640x480 1280x1024 (cropped)
Resolution (H x V)	
	1080p HD 1920 x 1080
	720p HD 1280 x 720
	432p SD 768 x 432
	288p SD 512 x 288
	144p SD 256 x 144
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, V3, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication
Ethernet	10BASE-T/100BASE-TX, auto-sensing, half/full duplex, Auto-MDI-X
Encryption	TLS 1.0, SSL, DES, 3DES, AES
Ethernet connector	RJ45
GOP Structure	IP, IBP, IBBP
Data Rate	H.265, 1080P: 61 kbps to 2.8 Mbps (depending on the scene, the frame rate, and the quality settings) H.264: 9.6 kbps to 6 Mbps

IP Delay (camera only)	30fps: 120ms 60fps: 67ms
Interoperability	ONVIF Profile S, ONVIF Profile G, ONVIF Profile M
Quality of service (QoS)	User-selectable options
<b>FPS</b>	<b>1080p</b> <b>720p</b>
	H.264      H.265                      H.264      H.265
60	4200      1649                      2600      1249
30	2600      1413                      1300      1096
15	2100      1157                      1100      902
12	1800      1075                      1000      841
5	1250      746                      600      597
2	500      407                      270      343
Recording capacity	16GB of internal EMMC-based memory. Provides local recording for minimum of 4 hours that includes continuous recording at maximum fps of both visible and thermal image streams, metadata, and audio.
Drive Unit	Brushless, integral pan/tilt motor drive
Supported mounting orientation	Upright Inverted
Pan Range	360° continuous rotation
Tilt Angle	292°
Tilt Range	Upright unit: -56° to +90° Inverted unit: -90° to +56°
Variable Pan Speed	0.2°/second to 120°/second
Variable Tilt Speed	0.2°/second to 90°/second
Intelligent Tracking Speed	4°/second to 120°/second
Pre-position Speed	Maximum 120°/second, with no more than 2.5 seconds to reach new position (excluding time to zoom and focus at new position)
Pre-position Accuracy	0.05° (typical)
Proportional Pan / Tilt to Zoom	Yes

Audible Noise	<65 dB
Input Voltage	21-30 VAC, 50/60 Hz, and/or High Power over Ethernet 56VDC nominal
Current Consumption	4.0A (24 VAC) 1.5A (High PoE)
Power Consumption (typical) (Includes integrated heater, defroster, and fan)	72W (24 VAC) 72W (High PoE)
High PoE	95W High Power over Ethernet (Requires NPD-9501-E midspan from Bosch (sold separately).); 56VDC
Redundant configuration	Connect both High PoE Midspan and a separate 24 VAC power source. If either the High PoE or 24 VAC power source fails, the camera seamlessly transitions over to use the remaining power source.
Surge protection	Built-in surge protection for power, data, and network interfaces
Accessory Interface/ Control Data	RS-485, simplex, user-selectable baud rate or auto-baud  Used to communicate with optional Alarm/washer interface box (MIC-ALM-WAS-24) or with Bosch OSRD, Pelco P/D, Forward Vision, and CoHu serial protocols.
Power, network	Ethernet High PoE (95 W) RJ45 10/100Base-Tx, male connector; Female-to-female RJ45 coupler included
Power, pigtail	24 VAC (nominal)
Chassis ground	Ground wire with connector lug
Audio	Half duplex Line in: 9 kohm typical, 5.5 Vpp max Line out: 3.0 Vpp at 10 Kohm typical 2.3 Vpp at 32 Kohm typical 1.7 Vpp at 16 ohm typical
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity	0 to 100%
Wind Load	160 km/h (100 mph) (sustained) 241 km/h (150 mph) (gusts)

Effective Projected Area (EPA)	Camera: 0.0910 m <sup>2</sup> / 0.98 ft <sup>2</sup> Camera and sunshield: 0.0929 m <sup>2</sup> / (1.00) ft <sup>2</sup> MIC Wall Mount: 0.0483 m <sup>2</sup> / 0.52 ft <sup>2</sup>
Dimensions (W x H x D)	421 mm x 298 mm x 181 mm (11.74 in. x 16.58 in. X 7.14 in.)
Weight	9.0 kg (19.7 lb)
Window	Borosilicate glass (optical) Germanium (thermal)
Construction Material	Cast solid aluminum
Window Wiper	Integrated, long-life silicone wiper
Heater	Integrated
Fan	Integrated
Defroster	Embedded in optical and thermal windows, with de-icing capability
Sunshield (to minimize sun loading in hot climates)	Optional; sold separately
Standard Finish	Chromate-based surface treatment with powder coat paint, sand finish
Color	White (RAL 9010)

### Ordering information

#### **MIC-9502-Z30WQS PTZ thermal QVGA-19mm 2MP 30x 9Hz, white**

Ruggedized dual thermal/visible PTZ camera. 30x visible zoom. Thermal imager with standard resolution (320x240 pixels), <9 Hz frame rate, and 19 mm lens. White housing color.

Order number **MIC-9502-Z30WQS | F.01U.322.002 F.01U.368.926**

#### **Accessories**

##### **NPD-9501-E Midspan 95W 1 port outdoor**

95 W outdoor PoE midspan for AUTODOME and MIC cameras

Order number **NPD-9501-E | F.01U.365.279**

##### **VG4-A-PSU1 PSU, 120VAC, for AUTODOME, MIC7000**

Power supply for AUTODOME 7000, MIC IP cameras without illuminators.

120VAC in, 24VAC out

Order number **VG4-A-PSU1 | F.01U.261.377 F.01U.009.667 F.01U.081.593**

##### **VG4-A-PSU2 Power supply, 230VAC, AUTODOME, MIC7000**

Power supply for AUTODOME 7000, MIC IP cameras without illuminators.

230VAC in, 24VAC out

Order number **VG4-A-PSU2 | F.01U.009.668**

**F.01U.096.639 F.01U.097.433 F.01U.081.604**

**F.01U.261.378**

##### **MIC-ALM-WAS-24 Interface box, alarm, washer pump, 24VAC**

Grey polycarbonate interface box for alarms and washer pump connections for MIC IP cameras

Order number **MIC-ALM-WAS-24 | F.01U.286.248**

##### **MIC-DCA-HW Deep conduit mount, two M25 holes, white**

DCA mount for MIC7000 family and MIC IP fusion 9000i cameras. Aluminum. Two M25 holes for conduit/cable glands.

White (RAL 9010) color.

Order number **MIC-DCA-HW | F.01U.286.245**

##### **MIC-DCA-HWA Deep conduit mount, M25 holes, white**

DCA mount for MIC7000 and MIC IP fusion 9000i cameras. Aluminum. Two M25 holes for conduit/cable glands. Includes an conduit adapter (male M25 to female 3/4" NPT). Available in specific regions only.

White (RAL 9010) color.

Order number **MIC-DCA-HWA | F.01U.303.167**

##### **MIC-WMB-WD Wall mount bracket, white**

Wall mount bracket, white sand finish (RAL9010)

Order number **MIC-WMB-WD | F.01U.143.156**

##### **MIC-CMB-WD Corner mount bracket, white**

Corner mount bracket, white sand finish (RAL9010)

Order number **MIC-CMB-WD | F.01U.143.159**

##### **MIC-SPR-WD Wall mount spreader plate, white sand**

Aluminum spreader plate suitable for brickwork surface mounting, white sand finish (RAL9010)

Order number **MIC-SPR-WD | F.01U.143.163**

##### **MIC-SCA-WD Shallow conduit adapter, white sand**

Shallow conduit adapter for a MIC-WMB, a MIC-PMB, or a MIC-SPR mount, white sand finish (RAL9010)

Order number **MIC-SCA-WD | F.01U.143.154**

##### **MIC-PMB Pole mount bracket**

Pole mount bracket (includes 2 x 455 mm stainless steel banding straps for pole diameters 75 to 145 mm)

Order number **MIC-PMB | F.01U.087.283**

##### **MIC-M25XNPT34 Adapter, M25 to 3/4" NPT, stainless steel**

Stainless Steel M25 to 3/4" NPT thread adapter

Order number **MIC-M25XNPT34 | F.01U.301.975**

##### **MIC-9K-SNSHLD-W Sunshield thermal PTZ camera, white**

Sunshield kit for MIC IP fusion 9000i cameras, white color. Recommended for use with white color MIC IP fusion 9000i cameras installed in locations with high sun load.

Order number **MIC-9K-SNSHLD-W | F.01U.321.958**



**MIC-WKT-IR Washer kit, MIC IR**

Washer kit for MIC IP starlight 7000i and MIC IP fusion 9000i camera models

Washer kit for analog infrared MIC camera models

Order number **MIC-WKT-IR | F.01U.087.255**

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**MIC-9K-IP67-5PK Connector kit thermal PTZ IP67 5pieces**

Kit that gives IP67-rated protection from dust and moisture for some MIC IP cameras. 5-pack, white.

Order number **MIC-9K-IP67-5PK | F.01U.336.015**

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**Software Options****MVS-FNTCIP NTCIP for moving cameras**

NTCIP license for moving cameras

Available in NAM region only.

Order number **MVS-FNTCIP | F.01U.329.682**

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**MVS-FCOM-PRCL License key for serial protocol**

Serial Protocol Software License (e-license) for IP Cameras

Order number **MVS-FCOM-PRCL | F.01U.314.101**

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**Services****EWE-MIC9IFF-IW 12 mths full wrty ext MIC 9000i Fusion**

12 months warranty extension

Order number **EWE-MIC9IFF-IW | F.01U.393.571**

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