

MIC Series 500 Classic



- ► Rated to an industry leading IP68
- Multiple camera programming through Camset software
- Many mounting and viewing options
- Easy set-up and configuration through the powerful on-screen display
- ► Multi-protocol operation
- On-site canting ability
- ► Ultra long life silicone wiper

The MIC Series 500 Classic combines cutting-edge technology with the latest production techniques to provide a class-leading feature set in an economical package. The MIC Series 500 Classic range takes high quality surveillance to new levels of excellence.

As a best-fit camera for virtually any security application, it can be installed in the harshest of environments. Thanks to its IP68-rated aluminum casing, the MIC Series 500 Classic functions perfectly in the most demanding conditions. This tough casing provides protection from the elements and physical attack. Coupled with an optically perfect, flat viewing window, integrated long life silicone wiper and a reversible rain shield, ensures high quality images regardless of the installed environment.

The brushless-motor technology offers ultra-reliable, whisper-quiet operation with full 360° continuous rotation pan and 267° tilt control for exceptional viewing capability. Small increment pan/tilt speeds from just 0.2° per second to 120° per second gives the user precise control. This speed control is especially important when used with video analytic systems, particularly for tracking subjects when fully zoomed in.

On-screen menus allow camera set-up from the control room via a remote keyboard. The MIC Series 500 Classic is compatible with all leading control systems and has a wide choice of protocols available.

A choice of true day/night camera modules offering up to 36x optical zoom (12x digital) are available, providing 540 TV lines (PAL). Preset positions, preset tours and random tours ensure flexible surveillance options.

The MIC Series 500 Classic features a twist-lock canting function. This allows the camera to be securely canted onsite at 45° for pole mount applications allowing the base of the pole to be viewed. The sheer flexibility of mounting options allows the camera to be installed upright, inverted or canted to achieve the perfect field of view.

Functions

Rated to an industry leading IP68

With no dust ingress and the ability to withstand sustained periods of immersion under water, the MIC Series 500 Classic is perfectly suited for installation in even the most unforgiving environments.

Brushless motor technology

Ultra-reliable brushless motors provide whisper-quiet operation and smooth control.

Host of mounting and viewing options

Faultless operation in upright, inverted or canted positions gives the user a host of mounting and viewing possibilities. The twist-lock canting feature allows the MIC Series 500 Classic to be canted to 45° on site. This allows, for example, the base of the pole to be viewed in upright pole-mounted applications.

Easy set-up

Camera settings can be adjusted via the on-screen menu from a control room via a remote keyboard.

Multi-protocol operation

Compatible with virtually any control equipment available today, the MIC Series 500 Classic range seamlessly integrates with the vast majority of security systems.

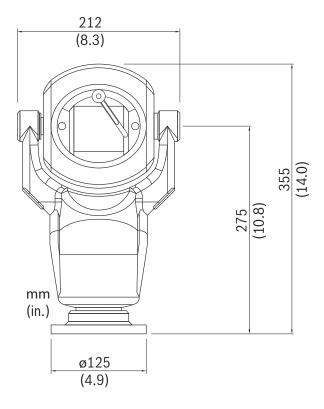
Applications:

- General CCTV
- Town centers
- ANPR systems
- Vandalism prone areas
- Extreme environments
- Rapid deployment
- High security
- Prestigious developments
- Broadcast
- Marine/costal
- Architectural

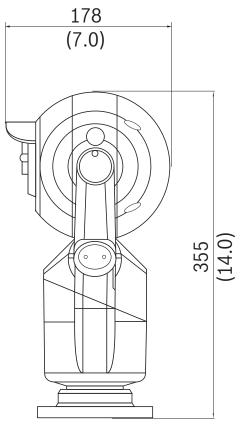
Certifications and Approvals

Region	Certi	Certification		
Europe	CE	2004/108/EC, 2006/95/EC		
Global	IP Ra	ating		
USA	UL	UL 60950-1, 2nd Edition:2007		
	FCC	CFR 47 FCC part 15:2009, Class B		
Canada	CSA	CAN/CSA-C22.2 No. 60950-1-07		
Electromagnetic Compatibility (EMC)		Complies with FCC Part 15, ICES-003, and CE regulations, including EN50130-4 and EN61000-3-2 & 3-3 and EN55022		
Product Safety		Complies with CE regulations, UL, EN, and IEC Standards 60950-1 & 22		
Weatherproofing		IP68		

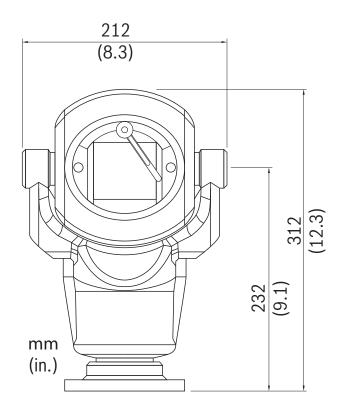
Installation/Configuration Notes



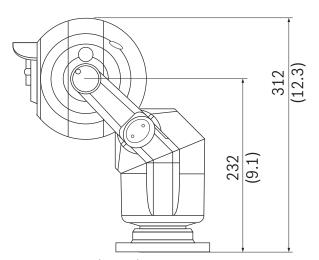
Front Detail, 90° (straight)



Side Detail, 90° (straight)



Front Detail, 45° (canted)



Side Detail, 45° (canted)

Technical Specif	ications	Home Position	Preset 1 or tour	
Camera Module		On-screen Menu	Most camera functions can be accessed	
	1/4 in Evyjow CCD (WDB)		through the on screen menu	
Horizontal Resolution	nage Sensor 1/4 in. Exview CCD (WDR) orizontal Resolution 540 TVL PAL (wide)		Communication and Protocols	
Filter	Automatic mechanical IR cut filter	Communication	RS485 / RS422	
Focus System	Auto or manual	Control Protocol	FV and Bosch protocols pre-installed. Twin protocol packs including FV/Pelco, FV/VCL, FV/American Dynamics and FV/Kalatel can be loaded using the MIC Universal Camera Setup Software Utility (Camset)	
Iris	Auto or manual with slow shutter integration modes			
Synchronization	Internal / External (V-Lock)			
Signal to Noise Ratio	50 dB or more	Connectivity		
Back Light Compensation On/Off (BLC)			Supplied free with each camera, Camset allows direct connection to a USB equipped PC	
White Balance	Automatic	(Camset)	via the MIC Series PSU or over a full duplex or	
Automatic Gain Contro (AGC)	-3 to −28 dB, −2 dB steps		IP network to provide access to all camera functions and useful diagnostic tools	
Aperture Control	16 Steps	Video	Coaxial via composite cable	
18x Optical Zoom Module		Telemetry	Twisted pair. Simplex, half and full duplex operation via composite cable	
	F=4.1 mm (wide) to 73.8 mm (tele), F1.4 to	Power	Via composite cable	
_	F3.0	Alarms		
Zoom	18x optical (12x digital)	Alarm Inputs	One (1) tamper input (additional inputs possi-	
Angle of View	48° (wide) to 2.8° (tele)	Alaiminputs	ble with optional alarm card)	
Minimum Illumination	1/60 s mode, 0.7 lx (typical) (F1.4, 50 IRE) 1/4 s mode, 0.07 lx (typical) (F1.4, 50 IRE)	Alarm Communication	Tamper switch (ground connection)	
Shutter Speed	1/3 to 1/10,000 s (20 steps) PAL	Mechanical		
36x Optical Zoom Mod	dule	Drive Unit	Brushless, integral pan/tilt motor drive	
Lens	F=3.4 mm (wide) to 122.4 mm (tele), F1.6 to	Pan Angle	360° continuous rotation	
	F4.5	Pan Speed	Up to 120° per second (variable)	
Zoom	36x optical (12x digital)	Tilt Angle	267°	
Angle of View	57.8° (wide) to 1.7° (tele)	Tilt Speed	0.2° to 80° per second (variable)	
Minimum Illumination	1/60 s mode: 1.4 lx (typical) (F1.6, 50 IRE)	Speed Control	Closed loop electronics	
01 11 0 1	1/4 s mode: 0.1 lx (typical) (F1.6, 50 IRE)	Preset Accuracy	Better than 0.08°	
Shutter Speed Operational	1/3 to 1/10,000 s (20 steps) PAL	Proportional Pan/Tilt to Zoom	Yes	
Auto Flip	Yes	Construction		
Manual Flip	Yes	Construction Material	Cast solid aluminum with anti-corrosion pre-	
E-flip	Yes, E-flip enables the camera module to invert		treatment	
Procets	the image 64 telemetry presets accurate to 0.08° utilizing resolver technology using the on-screen menu or via Camset, Up to 10 camera module presets (Sony sets) to allow ANPR, color correction etc.	Viewing Window	Tempered flat glass	
Presets		Standard Colors Standard Finish	Black (RAL9005) or white (RAL9010)	
			Powder coated, sand finish	
		Dimensions (WxHxD)	d 212 x 355 x 177 mm	
Preset Tours	Four (4) tours each with up to 32 presets	 Upright and Inverte 	(8.35 x 13.98 x 6.97 in.)	
Pattern Tours	Two (2) tours	Canted	212 x 312 x 255 mm	
Sector Titles	64 sectors, 20 characters per title		(8.35 x 12.28 x 10.0 in.)	
Preset Titles	20-character caption for each of the 64 presets	Weight	7 kg (15.43 lb) including 4 in. pitch circle diameter (PCD) base	
		Canting	Twist Lock canting secured by two security screws	

Environmental	
Operating Temperature	-20°C to $+60^{\circ}\text{C}$ (-4°F to $+140^{\circ}\text{F}$)
Weatherproofing	IP68
Electrical	
Input Voltage	18 VAC
Power Consumption	25 W max.
Options	
Camera Module	18x camera module or 36x camera module
Camera Color System	PAL
Telemetry Control Card	Built-in
Window Wiper	Standard
Washer Drive	Optional washer kit (MIC-WKT Kit with washer pump drive)
Alarm Card	Optional, 8-input with washer pump drive function, fits in MIC Series power supply
Biphase Converter	Optional, fits in MIC Series power supply expansion slot (BP-4)

Ordering Information	
MIC500ALBUR14618P MIC Series 500 Classic 18x PAL Camera with Integrated Wiper, Black 18x, PAL, PTZ camera, black, with an inte- grated wiper	MIC500ALBUR146 18P
MIC500ALBUR14636P MIC Series 500 Classic 36x PAL Camera with Integrated Wiper, Black 36x, PAL, PTZ camera, black, with an inte- grated wiper	MIC500ALBUR146 36P
MIC500ALAUR14618P MIC Series 500	MICEOCAL AUDI 4C
Classic 18x PAL Camera with Integrated Wiper, White 18x, PAL, PTZ camera, white, with an integrated wiper	MIC500ALAUR146 18P

Ordering Information			
Accessories			
MIC-24PSU-UL 24 VAC Camera Power Supply 24 VAC, 50/60 Hz power supply for MIC Ser- ies cameras	MIC-24PSU-UL		
MIC-115PSU-UL 115 VAC Camera Power Supply 115 VAC, 60 Hz power supply for MIC Series cameras	MIC-115PSU-UL		
MIC-240PSU-UL 240 VAC Camera Power Supply 240 VAC, 50 Hz power supply for MIC Series cameras	MIC-240PSU-UL		
MIC-ALM Alarm and Washer Pump Drive Card 8 Input alarm and washer pump drive card for PSU (Not for IR PSU)	MIC-ALM		
MIC-BP4 Biphase Converter BiPhase converter for non-IR versions of MIC series power supply units	MIC-BP4		
MICUSB485CVTR2 USB to RS485 Signal Converter USB to RS485 signal converter to allow MIC Series cameras to connect to a PC, supplied with each camera	MICUSB485CVTR2		
MIC-501KBD Keyboard Controller Keyboard controller with 3-axis joystick for 1 camera (FV PROTOCOL ONLY)	MIC-501KBD		
MIC-516KBD Keyboard Controller Keyboard controller with 3-axis joystick for 1 to 16 cameras (FV PROTOCOL ONLY)	MIC-516KBD		
MIC-WKT Washer Kit Washer kit for non infrared MIC models (includes washer pump drive card, washer nozzle and mounting brackets for wall and 4 in. PCD base)	MIC-WKT		
HAC-WAS05-20 24 VAC Washer 24 VAC washer inst. 5M 25L	HAC-WAS05-20		
HAC-WAS05-50 230 VAC Washer 230 VAC washer inst. 5M 25L	HAC-WAS05-50		
HAC-WAS30-50 230 VAC Washer 230 VAC washer inst. 30M 25L	HAC-WAS30-50		
MIC-DCA-WD Deep Conduit Adapter Deep conduit adapter for 4 in. PCD base - white sand finish, RAL9010	MIC-DCA-WD		
MIC-DCA-BD Deep Conduit Adpater Deep conduit adapter for 4 in. PCD base - black sand finish, RAL9005	MIC-DCA-BD		
MIC-SCA-WD Shallow Conduit Adaptor Adapter for a MIC-WMB, a MIC-PMB, or a MIC-SPR mount, white sand finish, RAL9010	MIC-SCA-WD		
MIC-SCA-BD Shallow Conduit Adapter Adapter for a MIC-WMB, a MIC-PMB, or a MIC-SPR mount, black sand finish, RAL9005	MIC-SCA-BD		

Ordering Information	
MIC-SPR-WD Spreader Plate Aluminum spreader plate suitable for brick- work surface mounting – white sand finish RAL9010	MIC-SPR-WD
MIC-SPR-BD Spreader Plate Aluminum spreader plate suitable for brick- work surface mounting – black sand finish RAL9005	MIC-SPR-BD
MIC-CMB-WD Corner Mount Bracke Corner mount bracket - white sand finish RAL9010	MIC-CMB-WD
MIC-CMB-BD Corner Mount Bracke Corner mount bracket - black sand finish RAL9005	MIC-CMB-BD
MIC-WMB-WD Wall Mount Bracket Wall mount bracket - white sand finish RAL9010	MIC-WMB-WD
MIC-WMB-BD Wall Mount Bracket Wall mount bracket - black sand finish RAL9005	MIC-WMB-BD
MIC-PMB Pole Mount Bracket Pole mount bracket (includes 2 x 455 mm banding ties for pole diameters 75 to 145 mm)	МІС-РМВ
MIC-2M-S 2 m Shielded Composite Cable Shielded Composite 2 m cable that provides power, telemetry and video connection from a MIC Series camera to a MIC Series power supply	MIC-2M-S
MIC-10M-S 10 m Shielded Composite Cable Shielded Composite 10 m cable that provides power, telemetry and video connection from a MIC Series camera to a MIC Series power supply	MIC-10M-S
MIC-20M-S 20 m Shielded Composite Cable Shielded Composite 20 m cable that provides power, telemetry and video connection from a MIC Series camera to a MIC Series power supply	MIC-20M-S
MIC-25M-S 25 m Shielded Composite Cable Shielded Composite 25 m cable that provides power, telemetry and video connection	MIC-25M-S

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from a MIC Series camera to a MIC Series