

MIC Series 500 Professional



- ► 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
- Powerful privacy masking allowing over 900 separate masked zones

The MIC Series 500 Professional combines cutting-edge technology with the latest production techniques to provide a class-leading feature set in an economical package. The MIC Series 500 Professional 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 Professional 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 Professional 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) or 520 TV lines (NTSC). Preset positions, preset tours and random tours ensure flexible surveillance options.

The integrated privacy card provides over 900 individual privacy masks, with a choice of mask styles, for use in high density residential applications. Each mask changes size smoothly and quickly to ensure the covered target cannot be seen.

The MIC Series 500 Professional features twist-lock canting functionality. This allows the camera to be securely canted on-site 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

Subjected and certified to rigorous IP68 dust and immersion tests, the MIC Series 500 Professional 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 Professional to be canted to 45° on site. This allows, for example, the base of the pole to be viewed in upright pole-mounted applications.

Sophisticated privacy masking

The integrated privacy card allows for over 900 individual privacy masks, with a choice of mask styles, to be programmed.

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 Professional seamlessly integrates with the vast majority of security systems.

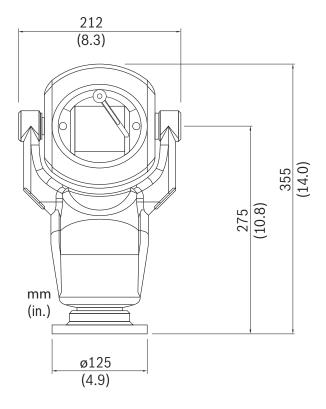
Applications:

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

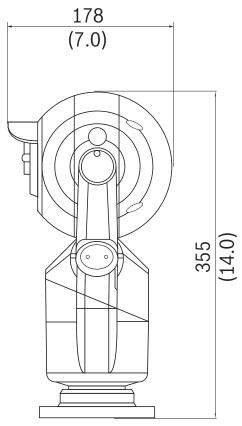
Certifications and Approvals

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 (1m submersion for 24 hours)

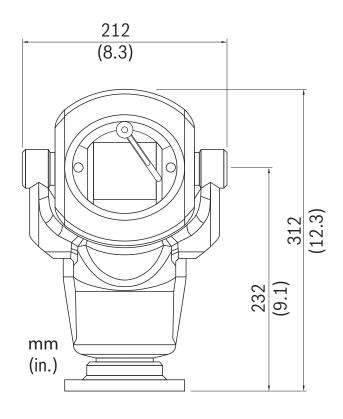
Installation/Configuration Notes



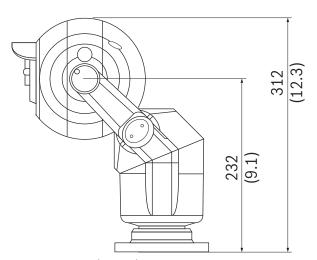
Front Detail, 90° (straight)



Side Detail, 90° (straight)



Front Detail, 45° (canted)



Side Detail, 45° (canted)

Technical Specif	ications	Sector Titles	64 sectors, 20 characte	rs per title
Camera Module		Preset Titles	20-character caption for sets	r each of the 64 pre-
Image Sensor	1/4 in. Exview CCD (WDR)	Home Position	Preset 1 or tour	
Effective Pixel Element	NTSC: Approx. 380,000; 768 (H) x 494 (V)	On-screen Menu	Most camera functions on through the on-screen m	
Horizontal Resolution PAL: 540 TVL NTSC: 520 TVL		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 prot packs including FV/Pelco, FV/VCL, FV/Americar namics and FV/Kalatel can be loaded using the N Universal Camera Setup Software Utility (Came		
Iris	Auto or manual with slow shutter integration modes			paded using the MIC
Synchronization	Internal / External (V-Lock)	Connectivity	1	,
Signal-to-Noise Ratio (S	SNR) 50 dB or more	-		
Back Light Compensation On/Off (BLC)		MIC Universal Cam Setup Software Ut	y direct connection to a U	Supplied free with each camera, Camset allows direct connection to a USB equipped PC via the MIC Series PSU or over a full duplex or IP net-
White Balance	Automatic	(Camset)	work to provide access t	
Automatic Gain Contro	-3 to 28 dB, 2 dB steps		and useful diagnostic to	
(AGC)	10.04	Video	Coaxial via composite ca	able
Aperture Control 18x Optical Zoom Mod	16 Steps dule	Telemetry	Twisted pair. Simplex, h eration via composite ca	
Lens	=4.1 mm (wide) to 73.8 mm (tele), F1.4 to	Power	Via composite cable	
Lens	F3.0	Alarms		
Zoom	18x optical (12x digital)	Alarm Inputs	One (1) tamper input (a	dditional innuts possi-
Field of View	48° (wide) to 2.8° (tele)	7 ilai ili pato	ble with optional alarm o	
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 Communica Mechanical	n Tamper switch (ground	connection)
Shutter Speed	1/4 to 1/10,000 s (20 steps) NTSC, PAL	Mechanical		
36x Optical Zoom Mod	dule	Drive Unit	Brushless, integral pan/	
Lens	F=3.4 mm (wide) to 122.4 mm (tele), F1.6 to	Pan Angle	360° continuous rotatio	
20113	F4.5	Pan Speed	Up to 120° per second (variable)
Zoom	36x optical (12x digital)	Tilt Angle	270°	• 11 \
Field 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	
	1/4 s mode: 0.1 lx (typical) (F1.6, 50 IRE)	Preset Accuracy	±0.17°(typical)	
Shutter Speed	1/4 to 1/10,000 s (20 steps) NTSC 1/3 to 1/10,000 s (20 steps) PAL	Proportional Pan/7 Zoom	to Yes	
Operational		Electrical		
Auto Flip	Yes	Input Voltage	18 VAC	
Manual Flip	Yes	Power Consumption	25 W max. without heat	,
E-flip	Yes, E-flip enables the camera module to invert the image	Options	36 W max. with heater o	on
Dynamic Privacy Zones		- Camera Module	18x camera module or 3	S6v camera modula
Presets	64 telemetry presets accurate to 0.08° utilizing resolver technology using the on-screen menu or via Camset,	Camera Color Syst		oon camera module
		Telemetry Control		
1	Up to 10 camera module presets (Sony sets) to allow ANPR, color correction etc.	Washer Drive	Optional washer kit (MIC pump drive)	C-WKT Kit with washer
Preset Tours	Four (4) tours each with up to 32 presets	Heater	Standard	
Pattern Tours	Two (2) tours	Houtof	o candard	

Privacy Masking	Privacy card with up to 959 masks, fitted as standard
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)
Environmental	
Operating Temperature (with heater)	-30 °C to +60 °C (-22 °F to +140 °F)
Weatherproofing	IP68 (1m submersion for 24 hours)
Construction	
Dimensions (W x H x D)	
Upright and Inverted	212 x 355 x 177 mm (8.35 x 13.98 x 6.97 in.)
Canted	212 x 312 x 255 mm (8.35 x 12.28 x 10.0 in.)
Weight	7 kg (15.43 lb) including 4 in. pitch circle diameter (PCD) base
Viewing Window	Tempered flat glass
Construction Material	Cast solid aluminum
Standard Colors	Black (RAL9005) or white (RAL9010)
Standard Finish	Alocrom 1200 surface treatment with powder coat paint, sand finish
Window Wiper	Standard
Canting	Twist Lock canting secured by two security screws

Ordering Information	
MIC-500-ALB18N MIC Series 500 Professional 18x NTSC Camera, Black 18x, NTSC, PTZ camera, black, with an integrated wiper, heater, and privacy function	MIC-500-ALB18N
MIC-500-ALB18P MIC Series 500 Professional 18x PAL Camera, Black 18x, PAL, PTZ camera, black, with an integrated wiper, heater, and privacy function	MIC-500-ALB18P
MIC-500-ALB36N MIC Series 500 Professional 36x NTSC Camera, Black 36x, NTSC, PTZ camera, black, with an integrated wiper, heater, and privacy function	MIC-500-ALB36N
MIC-500-ALB36P MIC Series 500 Professional 36x PAL Camera, Black 36x, PAL, PTZ camera, black, with an integrated wiper, heater, and privacy function	MIC-500-ALB36P
MIC-500-ALW18N MIC Series 500 Professional 18x NTSC Camera, White 18x, NTSC, PTZ camera, white, with an inte- grated wiper, heater, and privacy function	MIC-500-ALW18N

Ordering Information	
MIC-500-ALW18P MIC Series 500 Professional 18x PAL Camera, White 18x, PAL, PTZ camera, white, with an integrated wiper, heater, and privacy function	MIC-500-ALW18P
MIC-500-ALW36N MIC Series 500 Professional 36x NTSC Camera, White 36x, NTSC, PTZ camera, white, with an integrated wiper, heater, and privacy function	MIC-500-ALW36N
MIC-500-ALW36P MIC Series 500 Professional 36x PAL Camera, White 36x, PAL, PTZ camera, white, with an integrated wiper, heater, and privacy function	MIC-500-ALW36P
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

Ordering Information	
MIC-DCA-WD Deep Conduit Adapter, White Deep conduit adapter for 4 in. PCD base - white sand finish, RAL9010	MIC-DCA-WD
MIC-DCA-BD Deep Conduit Adapter, Black Deep conduit adapter for 4 in. PCD base - black sand finish, RAL9005	MIC-DCA-BD
MIC-SCA-WD Shallow Conduit Adapter, White 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, Black Adapter for a MIC-WMB, a MIC-PMB, or a MIC-SPR mount, black sand finish, RAL9005	MIC-SCA-BD
MIC-SPR-WD Spreader Plate, White Aluminum spreader plate suitable for brick- work surface mounting – white sand finish RAL9010	MIC-SPR-WD
MIC-SPR-BD Spreader Plate, Black Aluminum spreader plate suitable for brick- work surface mounting – black sand finish RAL9005	MIC-SPR-BD
MIC-CMB-WD Corner Mount Bracket, White Corner mount bracket - white sand finish RAL9010	MIC-CMB-WD
MIC-CMB-BD Corner Mount Bracket, Black Corner mount bracket - black sand finish RAL9005	MIC-CMB-BD
MIC-WMB-WD Wall Mount Bracket, White Wall mount bracket - white sand finish RAL9010	MIC-WMB-WD
MIC-WMB-BD Wall Mount Bracket, Black 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 pro-	MIC-10M-S

Ordering Information	
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 from a MIC Series camera to a MIC Series power supply	MIC-25M-S
MIC-500-RWAB Replacement Wiper Assembly, Black	MIC-500-RWAB
MIC-500-RWAC Replacement Wiper Assembly, Silver	MIC-500-RWAC

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