

MIC series product guide Fully functional pan-tilt-zoom cameras



Introduction



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MIC series cameras

The MIC series of fully functional **Pan-Tilt-Zoom (PTZ)** cameras has been designed to offer an extremely reliable, robust and high quality surveillance solution for security applications that demand the very best performance. Precision engineered to exacting standards, the series offers numerous benefits over traditional dome and PTZ cameras, and is broken down into specific ranges that offer a best fit solution for virtually any application.

MIC series benefits

- Brushless motor technology* for ultra-reliable, smooth and whisper quiet operation
- Optically perfect, flat viewing window with integrated wiper option for the perfect picture, regardless of the weather
- Full 360° continuous rotation pan and up to 320° tilt control
- Ground breaking resolver technology for pin-point accuracy and control
- Rated to industry leading IP68** for use in even the harshest conditions
- Faultless operation mounted either upright or inverted. Certain ranges have a canted option for pole mount applications
- Multi-protocol operation compatible with all leading control systems
- Plug and play cable carrying video, telemetry and power
- Vandal resistant
- ► Full range of brackets
- ► Comprehensive three-year warranty

* Not available with MIC440AX models

** MIC412TI models rated to IP67

MIC series applications

With seven unique ranges forming the MIC series aluminum, stainless steel, underwater, ATEX certified (explosion protected), infrared, public address and thermal – a suitable camera solution can be found for virtually any application. What's more, with a host of easy to specify options to choose from including camera module, privacy, alarm, washer, colour and heater options, it is finally possible to enjoy the full benefits of best-fit CCTV.

Traditional CCTV:	Town centers, car parks, traffic and highways monitoring, shopping malls, schools
High security:	Police HQ, embassies, airports, nuclear, critical infrastructure, government buildings
Hostile environments:	Problem housing estates, high crime areas
Marine environments:	Ports, sea fronts, harbours, ships and yachts
Extreme environments:	Coastal surveillance, wet and rainy outdoor surveillance, corrosive environments, desert conditions, cold environments
Architectural:	Stainless steel, modern buildings
Rapid deployment:	Police vehicles, building site security, perimeter security, events, surveillance vehicles
Prestigious developments:	Museums, visitor centers, science parks, heritage town centers
System upgrades:	Replacing traditional CCTV cameras

How to build your perfect MIC series camera

For a full MIC solution you will need to consider the following:

- 1. MIC series camera
- 2. MIC series Power Supply Unit (PSU)
- 3. If Bosch Bi-Phase control is required add Bi-Phase converter card (see page 11 for options)
- 4. MIC series cable (video, telemetry and power all-inone)
- 5. Optional bracketry such as conduit adapter
- 6. Optional keyboard

An overview of part numbers for MIC series cameras

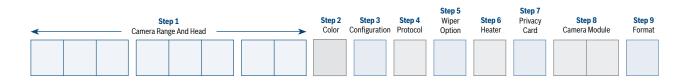
MIC series part numbers are constructed of 17 digits, specifically designed to incorporate all available options for each camera.

Simply go to the relevant camera range within these pages and construct your part number.

Power Supply Units

MIC series Power Supply Units (PSUs) are available with various input voltages and house optional extras such as alarm cards and washer pump drives

(PSUs suitable for infrared ranges have these built in). Please see page 11 for further details.



MIC400 ranges



MIC400 Aluminum (MIC400AL)



- 6mm thick aluminum casing Rated to IP68
- Brushless motors

Applications				
General CCTV	Prestigious developments			
Town centers	Broadcast			
Extreme environments	Marine/coastal			
Rapid deployment	Architectural			
High security				

MIC400 Stainless Steel (MIC400ST)



- Grade 316 ultra corrosion resistant stainless steel casing
- Rated to IP68
- Brushless motors

Applications		
Marine/coastal	Medical	
Shipping	Food production	
Oil rigs	Architectural	
Nuclear		

MIC400 Infrared (MIC400IR)



- 6mm thick aluminum casing
- Rated to IP68
- Twin 850nm IR illuminators – with Black Diamond technology
- Brushless motors

Applications				
General CCTV	High security			
Town centers	Prestigious developments			
Railway and bus stations	Marine/coastal			
Rapid deployment	Architectural			

MIC400 Public Address (MIC400PA)



- ▶ 6mm thick aluminum casing
- Rated to IP68 (speakers rated to IP66)
 Twin 100dB speakers for directional
- sound ► Third party amplifier required
- Brushless motors

Applications			
Town centers	Rapid deployment		
Railway stations	Stadia		
Events	Remote locations		
Crowd control	Airports		



MIC400 Underwater (MIC400UL/UT)

►	Choice of aluminum (UL) or stainless
	steel (UT) casings

- Uprated seals for submersion down to 25 meters
- Rated to IP68
- Brushless motors

Applications		
Ports & harbors	Marine research	
Nuclear	Swimming pools	

Step 1 Camera Range And Head			Step 3 St Configuration Pro	Step 5ep 4WipertocolOption	Step 6 Heater	Step 7 Privacy Card	Step 8 Camera Module	Step 9 Format

	Part No	MIC400 range - camera heads
		1/4" PTZ, 470TVL, 18x or 36x day/night camera, IP68, built-in telemetry, choice of protocols,
Step 1	MIC400AL	aluminum case
		¹ / ₄ " PTZ with twin 850nm Black Diamond IR illuminators featuring 470TVL, 18x or 36x day/night camera,
	MIC400IR	IP68, built-in telemetry, choice of protocols, aluminum case
		1/4" PTZ with twin speakers, 470TVL, 18x or 36x day/night camera, IP68/66, built-in telemetry,
	MIC400PA	choice of protocols, aluminum case
Choose camera	NUC 4000T	1/4" PTZ, 470TVL, 18x or 36x day/night camera, IP68, built-in telemetry, choice of protocols,
head	MIC400ST	grade 316 stainless steel case
		1/4" PTZ, 470TVL, 18x or 36x day/night camera, IP68, built-in telemetry, choice of protocols,
	MIC400UL	aluminum case - suitable for immersion up to 25 meters
		1/4" PTZ, 470TVL, 18x or 36x day/night camera, IP68, built-in telemetry, choice of protocols,
	MIC400UT	stainless steel case suitable for immersion in upto 25 meters
	Part No	MIC400 range - colours
	В	Black - RAL9005 (not available on ST or UT)
Step 2	G	Gray - RAL7001 (not available on ST or UT)
Choose color	W	White - RAL9003 (not available on ST or UT)
	S	Stainless steel - natural metal (ST and UT only)
	Part No	MIC400 range - configuration
Step 3	U	Upright mount (can be software inverted)
Choose	0	
configuration	С	Canted mount
	Part No	MIC400 range - protocols
Step 4	W	Forward Vision
Choose	D	Pelco P/D
protocol	Р	Bosch
		Additional protocols can be uploaded to the MIC camera using the USB Protocol Programmer available
		separately: MIC-USB485CVTR. For more information see the Protocol Programmer Manual
	Part No	
Step 5		MIC400 range - wiper
Step 5	1	Wiper (not available on UL or UT)
Choose wiper		
	1	Wiper (not available on UL or UT)
	1 2	Wiper (not available on UL or UT)No wiper (UL and UT models only)
Choose wiper	1 2 Part No	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater
Choose wiper Step 6	1 2 Part No 3	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater
Choose wiper Step 6	1 2 Part No 3 4 Part No 5	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater
Choose wiper Step 6 Choose heater	1 2 Part No 3 4 Part No	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater MIC400 range - privacy Privacy No privacy
Choose wiper Step 6 Choose heater Step 7	1 2 Part No 3 4 Part No 5	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater MIC400 range - privacy Privacy No privacy MIC400 range - camera
Choose wiper Step 6 Choose heater Step 7	1 2 Part No 3 4 Part No 5 6	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater MIC400 range - privacy Privacy No privacy
Choose wiper Step 6 Choose heater Step 7 Choose privacy	1 2 Part No 3 4 Part No 5 6 Part No	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater MIC400 range - privacy Privacy No privacy MIC400 range - camera
Choose wiper Step 6 Choose heater Step 7 Choose privacy Step 8 Choose camera	1 2 Part No 3 4 Part No 5 6 Part No 18 36 Part No	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater MIC400 range - privacy Privacy No privacy MIC400 range - camera 18x camera module 36x camera module MIC400 range - camera format
Choose wiper Step 6 Choose heater Step 7 Choose privacy Step 8	1 2 Part No 3 4 Part No 5 6 Part No 18 36	Wiper (not available on UL or UT) No wiper (UL and UT models only) MIC400 range - heater Heater No heater MIC400 range - privacy Privacy No privacy MIC400 range - camera 18x camera module 36x camera module

Part Number	
MIC400ST	No privacy available, heater is STD.
MIC400UL/T	No canted or white options. all Underwater MIC have heaters as standard. No privacy card available.
MIC400PA	Available in grey only. No canted or heater options. No privacy.

Popular configuration examples		
Part Number	Description	
MIC400ALBUP14618P	MIC400 aluminum, black, upright, Bosch protocol, integrated wiper, 18x day/night camera, PAL	
MIC400ALGUD14618P	MIC400 aluminum, gray, upright, Pelco protocol, integrated wiper, 18x day/night camera, PAL	
MIC400IRBUP14618P	MIC400 infrared, black, upright, Bosch protocol, integrated wiper, 18x day/night camera, PAL	
MIC400IRBUP14636P	MIC400 infrared, black, upright, Bosch protocol, integrated wiper, 36x day/night camera, PAL	
MIC400STSUP13518P	MIC400 stainless steel, upright, Bosch protocol, wiper, heater, 18x day/night camera, PAL	
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MIC412 range



Containing both a high quality optical day/night camera module and an FLIR thermal imaging module that sit sideby-side within the camera housing, the **compact MIC412** thermal range turns from a high resolution overview camera into a high performance thermal camera at the press of a single button on the control keyboard.

A choice of 18x or 36x day/night camera modules are available with the latest 50mm un-cooled FLIR thermal

imager to provide a range of enhanced viewing options, such as spectral heat variance and hot and cold spot highlights with a human detection range of over 780 meters. What's more, the FLIR thermal imager has built-in sun protection that allows the unit to 'self-heal' if inadvertently pointed at the sun.

MIC412 Thermal (MIC412TI)



- Dual spectra unit featuring both optical and thermal camera modules
- Switch from optical to thermal at the press of a single button
- 50mm FLIR thermal imager with a refresh rate of 9 Hz
- Sun protected
- Rated to IP67
- Brushless motors

Applications					
Perimeter security	Fire departments				
Border patrol	Law enforcement				
Rescue services					

The thermal advantage

Thermal cameras do not rely on traditional optics to give a picture, instead they pick up heat sources and display the variances on screen. This enables them to give extremely detailed pictures in demanding conditions such as fog, rain, pitch-black darkness and even through smoke and snow.

Application examples

The MIC412 has been used in a variety of mobile and fixed applications from vehicle mounted surveillance at a busy London airport and security at sea on a luxury super yacht to perimeter protection for various critical sites. Each benefits from the robust nature of the MIC412 and the sheer power of detection it provides.





Thermal image White hot spot mode







Thermal image -Iron bow mode

_____ Thermal image -Black hot spot mode



<	Step 1 Camera Range And Head	Step 2 Color	Step 3Step 4ConfigurationProtocol	Step 5WiperStep 6OptionHeater	Step 7 Privacy Card	Step 8 Camera Module	Step 9 Format

	Part No	MIC412 range - camera heads
Step 1 Choose camera head	MIC412TI	¼" dual spectra "thermal" PTZ, 470TVL optical 18x day/night camera, FLIR 50mm 9Hz thermal imager, IP67, built-in telemetry, choice of protocols, aluminum case
	Part No	MIC412 range - colours
	В	Black - RAL9005
Step 2 Choose color	G	Gray - RAL7001
Choose color	W	White - RAL9003
	Part No	MIC412 range - configuration
Step 3 Choose configuration	U	Upright mount (can be software inverted)
	Part No	MIC412 range - protocols
Step 4	W	Forward Vision
Choose	D	Pelco P/D
protocol	Ρ	Bosch
		Additional protocols can be uploaded to the MIC camera using the USB Protocol Programmer available separately: MIC-USB485CVTR. For more information see the Protocol Programmer Manual
	Part No	MIC412 range - wiper
Step 5 Choose wiper	1	Wiper fitted as standard
	Part No	MIC412 range - heater
Step 6 Choose heater	3	Heater fitted as standard
	Part No	MIC412 range - privacy
Step 7 Choose privacy	6	No privacy (privacy is not available on this model)
	Part No	MIC412 range - camera
Step 8	18	18x camera module
Choose camera	36	36x camera module
	Part No	MIC412 range - camera format
Step 9	Р	PAL format camera module
Choose format	Ν	NTSC format camera module

Popular configuration examples				
Part Number	Description			
MIC412TIBUP13618P	MIC412 thermal (9Hz), black, upright, Bosch protocol, wiper (as standard), 18x day/night camera, PAL			
MIC41211BUP13636P	MIC412 thermal (9Hz), black, upright, Bosch protocol, wiper (as standard), heater, 36x day/night camera, PAL			

MIC440 range

The MIC440 ATEX certified (explosion protected) range meets the exacting requirements of CSA/UL certification and ATEX Directive 94/9/EC Exd IIC T6 for **safe use in explosive atmospheres**, like those found in oil, gas, chemical processing sites and petrochemical refineries. At the same time it gives the user all the benefits of the MIC series.



MIC440 ATEX certified (explosion protected) installed at Spalding Energy Plant, capturing high quality images in an extremely hazardous environment



<	Step 1 Camera Range And Head	>	Step 2 Step 3 Color Configurat	Step 4	Step 5WiperStep 6OptionHeater	Step 7 Privacy Card	Step 8 Camera Module	Step 9 Format

	Part No	MIC440 range - camera heads
Step 1 Choose camera head	MIC440AX	1/4" ATEX certified PTZ, 470TVL, 18x day/night camera, IP68, built-in telemetry, choice of protocols, aluminum case
	Part No	MIC440 range - colours
Step 2 Choose color	В	Black - RAL9005
	Part No	MIC440 range - configuration
Step 3 Choose configuration	U	Upright mount (can be software inverted)
	Part No	MIC440 range - protocols
Step 4	W	Forward Vision
Choose	D	Pelco P/D
protocol	Ρ	Bosch
		The protocol in the MIC440 cannot be changed by the user.
	Part No	MIC440 range - wiper
Step 5 Choose wiper	1	Wiper fitted as standard
	Part No	MIC440 range - heater
Step 6 Choose heater	4	No heater (heater is not available on this model)
	Part No	MIC440 range - privacy
Step 7 Choose privacy	6	No privacy (privacy is not available on this model)
	Part No	MIC440 range - camera
Step 8	18	18x camera module
Choose camera	36	36x camera module
	Part No	MIC440 range - camera format
Step 9	Р	PAL format camera module
Choose format	Ν	NTSC format camera module

Popular configuration examples				
Part Number	Description			
MIC440BUP14618P	MIC440 ATEX certified (explosion protected), black, upright, Bosch protocol, wiper (as standard), 18x day/ night camera, PAL			

MIC series power supply units (PSUs), brackets and accessories



PSUs

MIC series PSUs are available in a range of voltage inputs to provide a perfect fit for virtually any application. An interface is housed within the PSUs so an optional alarm card and washer pump drive can be fitted if required (supplied as standard in IR version PSUs).

Cables

Power, video and telemetry are transmitted through a single MIC series cable. All cables come complete with the MIC series connector for easy connection to the camera head.



MIC series standard PSU

Brackets & accessories

A complete range of mounting brackets is available including wall, corner and pole mount. Deep and shallow conduit adaptors give extra flexibility. Available in standard colors, black, gray and white, including stainless versions.





Video out PSU

Keyboards

MIC series keyboards come in two distinct designs. The 501 is a robust keyboard that can fully control a single camera. Due to its compact size it is suitable for a wide range of applications including rapid deployment and vehicle mounting. The 516 can control up to 16 cameras and features a full range of function keys.



MIC-SCA-B Shallow conduit adapter suitable for use with MIC-WMB, MIC-CMB and MIC-PMB



MIC-PMB pole mount bracket with MIC-SCA-B shallow conduit adapter attached



MIC-CMB-B corner mount bracket

MIC-WMB-B with MIC400 aluminum attached



MIC-DCA-B Deep conduit adapter







MIC-WKT and MIC-WKT IR washer kits (tube not included)

Part Number	MIC400 & MIC440 series power supply units (PSUs)
MIC-240PSU	230V AC input power supply unit including interface for MIC series cameras
MIC-IR-240PSU	230V AC input power supply unit with washer drive & 4-input alarm card – only for twin infrared camera versions
MIC-115PSU	115V AC input power supply unit including interface for MIC series cameras
MIC-IR-115PSU	115V AC input power supply unit with washer drive & 4-input alarm card – only for twin infrared camera versions
MIC-24PSU	24V AC input power supply unit including interface for MIC series cameras
MIC-IR-24PSU	24V AC input power supply unit with washer drive & 4-input alarm card – only for twin infrared camera versions
MIC-12PSU	12V DC input power supply unit including interface for MIC series cameras
MIC-IR-12PSU	12V DC input power supply unit with washer drive & 4-input alarm card – only for twin infrared camera versions
MIC-ALM	8 Input alarm card for PSU (Not for IR PSU)

Part Number	MIC412 series power supply units (PSUs)
MIC-240-THERMAL	230V AC input power supply unit including interface for MIC series cameras - for use with MIC412 range
MIC-115-THERMAL	115V AC input power supply unit including interface for MIC series cameras - for use with MIC412 range

Part Number	MIC series Bosch Bi-Phase converters
MIC-BP3	Bosch Bi-Phase converter for IR versions of MIC series PSUs
MIC-BP4	Bosch Bi-Phase converter for non-IR versions of MIC series PSUs

Part Number	MIC series cables
MIC-2M	2m composite cable with plug for power, data & video
MIC-10M	10m composite cable with plug for power, data & video
MIC-20M	20m composite cable with plug for power, data & video
MIC-25M	25m composite cable with plug for power, data & video

Part Number	MIC series bracketry
MIC-WMB-B	Wall mount bracket - black RAL9005
MIC-WMB-G	Wall mount bracket - gray RAL7001
MIC-WMB-W	Wall mount bracket - white RAL9003
MIC-WMB-S	Wall mount bracket - grade 316 stainless steel (requires MIC-SPR or MIC-PMB for secure mounting due to weight)
MIC-CMB-B	Corner mount bracket - black RAL9005
MIC-CMB-G	Corner mount bracket - gray RAL7001
MIC-CMB-W	Corner mount bracket - white RAL9003
MIC-CMB-S	Corner mount bracket - grade 316 stainless steel
MIC-SCA-B	Shallow conduit adapter for 4" PCD base - black RAL9005
MIC-SCA-G	Shallow conduit adapter for 4" PCD base - gray RAL7001
MIC-SCA-W	Shallow conduit adapter for 4" PCD base - white RAL9003
MIC-SCA-S	Shallow conduit adapter for 4" PCD base - grade 316 stainless steel
MIC-DCA-B	Deep conduit adapter for 4" PCD base - black RAL9005
MIC-DCA-G	Deep conduit adapter for 4" PCD base - gray RAL7001
MIC-DCA-W	Deep conduit adapter for 4" PCD base - white RAL9003
MIC-DCA-S	Deep conduit adapter for 4" PCD base - grade 316 stainless steel
MIC-SPR	Spreader plate suitable for brickwork surface mounting
MIC-PMB	Pole mount bracket (includes 2 x 90mm banding ties)
MIC412-Sunshield	Sunshield kit for MIC412

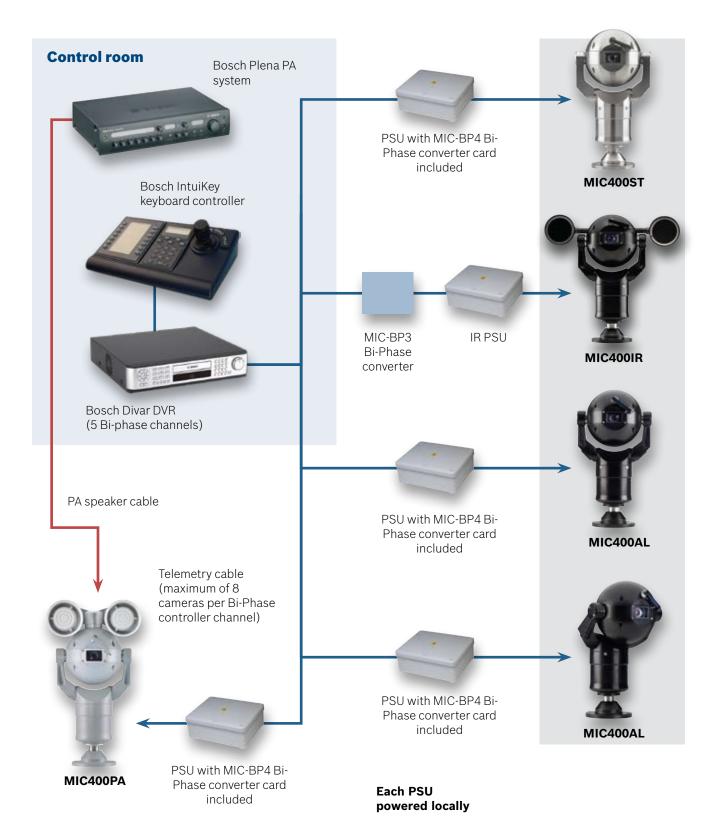
Part Number	MIC series keyboards/Dongle
MIC-501KBD	Keyboard controller with 3-axis joystick for 1 camera (FV protocol only)
MIC-516KBD	Keyboard controller with 3-axis joystick for 1 to 16 cameras (FV protocol only)
MIC-516ALM	8 Input alarm card for MIC-516KBD
MIC-USB485CVTR	USB to RS485 dongle for CAMSET

Part Number	MIC series accessories
MIC-WKT	Washer kit for non IR MIC400 models (incl. Washer pump drive card, washer nozzle and mounting bracket for 4" PCD base)
MIC-WKT-IR	Washer kit for IR MIC400 and MIC412 models (incl. washer nozzle and mounting bracket for 4" PCD base)
MIC-WN	Washer nozzle
MIC-WNB-PCD	Washer nozzle mounting bracket for 4" PCD base
MIC-GAS	Nebar gasket to fit between camera and bracket
MIC-RWB	Replacement wiper blade (single)
MIC-RWA-B	MIC400 Replacement wiper assembly black
MIC-RWA-C	MIC400 Replacement wiper assembly silver
MIC-RWA-S	MIC400 Replacement wiper assembly stainless steel

MIC Installation examples

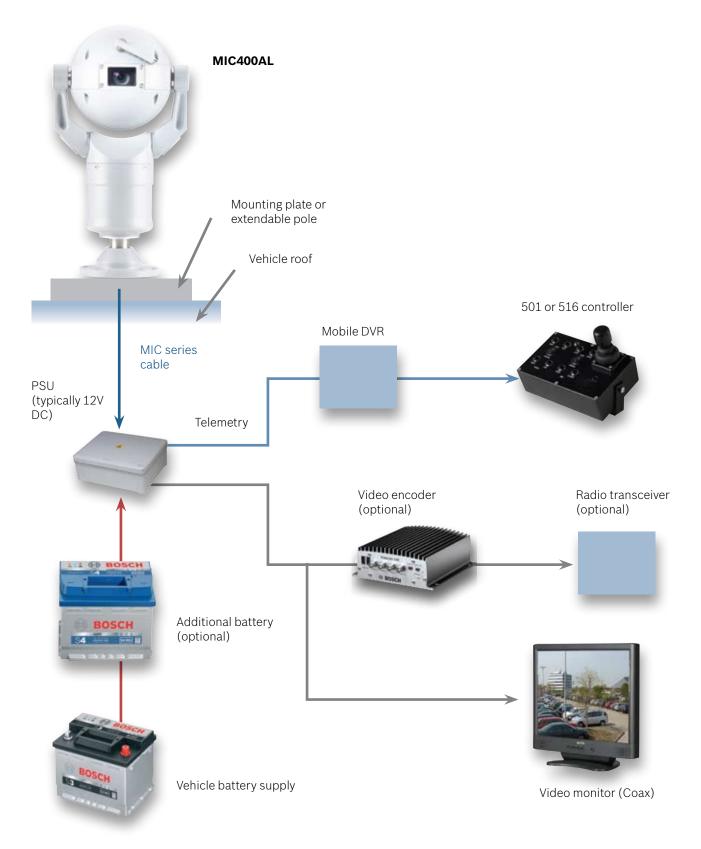


An example of a public space CCTV installation with MIC series cameras using Bosch Bi-phase protocol





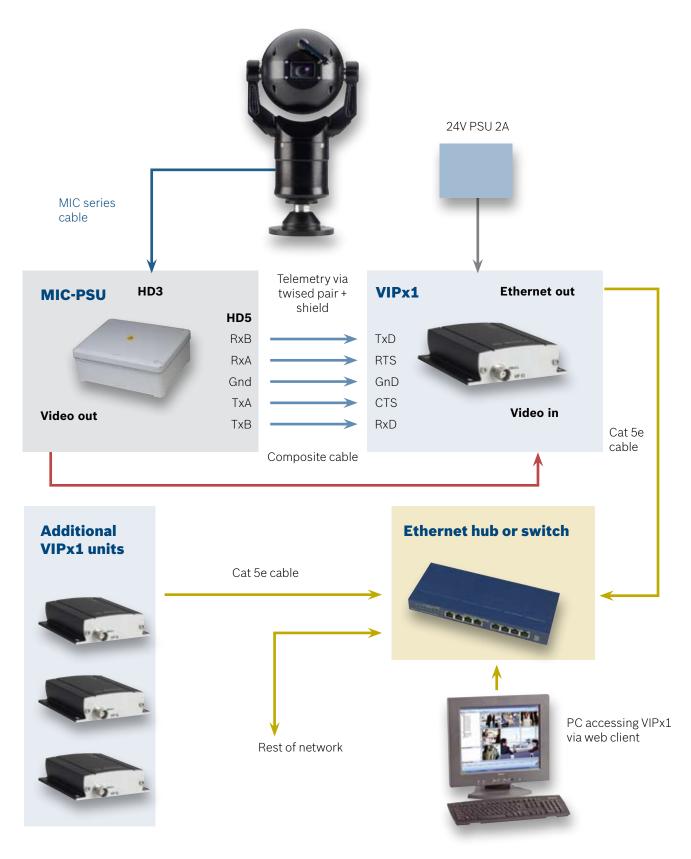
A typical vehicle installation with optional transmission facility



MIC Installation examples



An example of a network using the MIC400 connected via VIPx1/ethernet





MIC series – How to commission

MIC series cameras come complete with the powerful CAMSET configuration software to enable complete set-up of the camera head.

To access the camera you will need the following:

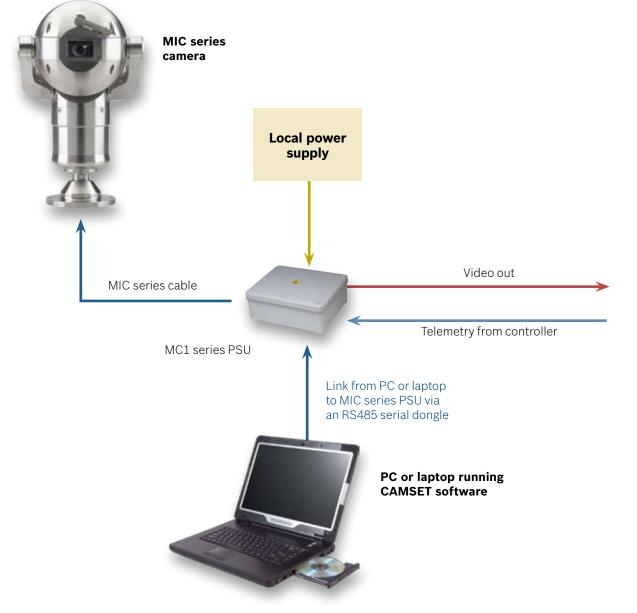
- 1. Software disk (shipped with every camera and also available as a download)
- 2. PC or laptop computer
- 3. A USB to RS485, RS232 to RS485 or USB to RS232 coupled with an RS232 to RS485 converter to connect the PC or laptop computer to the MIC series PSU. We recommend MIC-USB485CVTR.

Communicating with the camera head for initial set-up

Using CAMSET software users will need to:

- 1. Set the individual camera address (1-254)
- 2. Set the Baud rate to match the controller used
- 3. Optionally set up other options such as inverse image and/or invert controls (for inverted mount installations) plus advanced functionality.

Please note: once the camera address and Baud rate are set popular functions such as presets set-up and preset tour set-up can be carried out by using the controller.



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MIC Series product code matrix



	Codes	Notes
	400 = Various models	
Product range	412 = Thermal	
	440 = ATEX certified	
	(explosion protected)	
	AL = Standard aluminum	
	IR = Twin IR lamps	
	PA = Speakers	440 range is AX only
Version	ST = Stainless steel	400 range versions are, AL, IR, PA, ST, UL and UT only
Version	UL = Underwater aluminum	400 Tange versions are, AL, IN, TA, 31, 0L and 01 only
	UT = Underwater stainless	412 range versions use 9Hz thermal sensor
	AX = ATEX (explosion protected)	
	TI = Thermal (9Hz thermal)	
	B = Black	
Calar	G = Gray	440 range is only available in standard black
Color	W = White	Stainless is only for ST and UT versions
	S = Stainless (natural finish)	
	U = Upright	
Configuration	(Can be software inverted)	412 and 440 ranges cannot be canted
	C = Canted	
	W = Forward Vision	
Protocol	D = Pelco P/D	
	P = Bosch	
Wiper	1 = Wiper fitted	400 UL and UT versions cannot be fitted with wiper
Wiper	2 = No wiper	412 and 440 ranges have wiper as standard
Heater	3 = Heater	IR PA variants and the 110 range cannot be fitted with heater
Heater	4 = No heater	IR, PA variants and the 440 range cannot be fitted with heater
Privacy	5 = Privacy fitted	412 and 440 ranges cannot have privacy
гпиасу	6 = No privacy	412 and 440 ranges cannot have privacy
Camera module	18 = 18:1	
	36 = 36:1	
Camera format	P = PAL	
Camera IUIIIIal	N = NTSC	





Customer care and warranty statements

Standard Warranty

All MIC series cameras come complete with a comprehensive 3-year warranty.

3-year warranty valid from date of delivery. Warranty covers back-to-base repair at a MIC series Bosch approved service center.

Post Warranty Support

MIC products which have no valid warranty will be repaired where deemed possible by an approved service center at a pre-agreed price.

Repairs will only be carried out once the written agreement of the Purchaser is obtained. As installation, site location and regular maintenance may impact product life, an approved service center reserves the right to determine remaining lifetime and may recommend replacement instead of repair.

Where sub components of the MIC series and its associated peripherals remain available, such components will be available in the MIC series aftercare program. However, where such sub components become unavailable, or at a prohibitive price to affect a meaningful repair, an approved service center reserves the right to utilise alternative components or decline to repair products due to discontinuation of supply.

Technical Support Team

In the first instance please contact your local Bosch technical support team who will be pleased to assist you.

Our products are subject to testing and quality control procedures, however, sometimes a unit may need to be returned to the factory for evaluation and re-testing if the problem cannot be identified and resolved.





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