

PRODUCT GUIDE 2008

FROM THE INDUSTRY LEADER IN ACTIVE-INFRARED NIGHT VISION

NEW INTELLIGENT-IR™ ILLUMINATORS

NEW INFRARED IMAGERS™

INTEGRATED DAY NIGHT [IDN™] CAMERAS

WZ SERIES

NEW MIC1 SERIES

REG LICENCE PLATE CAPTURE





INFRARED ILLUMINATORS ENABLING TECHNOLOGY FOR NIGHT-TIME SURVEILLANCE

Today's digital surveillance systems demand 24/7 effectiveness. Derwent's infrared illumination is proven in real world applications to deliver with outstanding night-time image quality at distances ranging from 1m to 1 km.

In the performance-hungry world of today's IT-integrated systems, IR is a key component of front end imaging. Infrared reduces bandwidth, improves camera functionality, can operate covertly to preventing light pollution and helps ensure effective function of video analytics.

"BEING ABLE TO SEE AT NIGHT IS IMPORTANT. WE HAVE OBTAINED SUCCESSFUL PROSECUTIONS WITH THE USE OF VIDEOS THAT WE HAVE TAKEN OF CRIMES THAT HAVE OCCURRED IN THE MIDDLE OF THE NIGHT."

GARY STEVENS_SEMPRA ENERGY



LED DEGRADATION

ILLUMINATION AT POINT OF INSTALLATION



LIGHT OUTPUT LEVEL AFTER 6 MONTHS



AEGIS features Constant Light™ technology, designed to deliver a constant level of lighting performance throughout the life of the illuminator. Patent pending Constant Light™ technology compensates for LED degradation, a problem common with all other LED based illuminators for uncompromising night-time surveillance. Black Diamond™ infrared technology delivers up to 220m (720ft) of even infrared illumination while an innovative 12 VDC / 24 VAC Power-On-Board™ feature can eliminate the need for a power supply unit.



INFRARED ILLUMINATORS PRODUCT MATRIX

		NIGHT VISION DISTANCE	WAVELENGTH OPTIONS	BULB / LED LIFE	BEAM PATTERN OPTIONS	POWER CONSUMPTION	WEIGHT
	MICROLED Infrared LED Illuminator	33ft 10m	850nm / 940nm	>5 years	30° / 60°	10W	0.5kg (1lbs)
	MFLED Infrared LED Illuminator	180ft 55m	850nm / 940nm	>5 years	10° / 20° / 30° / 60°	15W	0.8kg (1.8lbs)
	NEW! SUPERLED™ Powered by BLACK DIAMOND™	max distance: 1000ft 300m	850nm	>5 years	10° / 20° / 30° / 60° / 95° / 135°	90W	4.7kg (10.4lbs)
	MF100 Infrared Illuminators	330ft 100m	730nm / 830nm / 950nm	8,000 hours	10° / 30° / 60°	70W	0.8kg (1.8lbs)
	UF500 Infrared Illuminators	820ft 250m	730nm / 830nm / 950nm	3,000 hours	6° / 10° / 30° / 60°	170W	4.0kg (8.8lbs)
	UF600 High Performance Infrared Illuminator	920ft 280m	695nm	1,000 hours	6° spot beam	230W	2.9kg (6.4lbs)
	NEW! AEGIS Powered by BLACK DIAMOND™ Constant Light, 12 VDC / 24 VAC Power-On-Board	max distance: 720ft 220m	850nm / 940nm	10 years	10° / 20° / 30° / 60° / 95° / 120°	Initial: 26W Max: 45W	1.4kg (3.1lbs)
	ZX700 Long Range Infrared Illuminator	2,300ft 700m	730nm / 830nm / 940nm	2,000 hours	2.5° spot beam	< 220W	4kg (8.8lbs)

BLACK DIAMOND™ NIGHT VISION TECHNOLOGY

Black Diamond™ infrared illumination is a groundbreaking technology that produces High-Fidelity™ IR illumination for critical CCTV applications. Surpassing the capabilities of conventional infrared, Black Diamond™ produces outstanding night-time image quality and drives the optimised performance of integrated security systems.

Select products are powered by Black Diamond to provide absolute night vision surveillance

CONVENTIONAL IR ILLUMINATION



BLACK DIAMOND™ IR ILLUMINATION



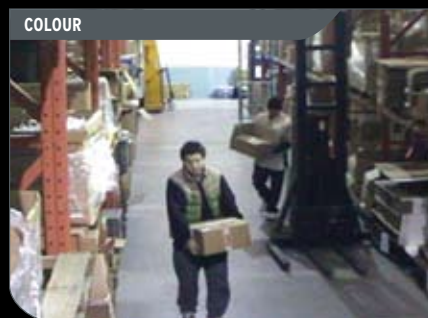
PRECISION ENGINEERED FOR THE WORLD'S MOST EXTREME ENVIRONMENTS

In a security market inundated with conventional day-night cameras that fail to live up to their specifications, Extreme CCTV, the trusted leader in active-infrared night vision, continues to provide reliable, high performance Integrated Day-Night cameras.

The next evolution is Extreme's new line of Infrared Imagers™ powered by Black Diamond™ Night Vision – an elite suite of precision-engineered cameras designed and calibrated to provide high-performance 24/7 surveillance.

“CO-OPERATION OF THE PUBLIC, GREAT SURVEILLANCE CAMERAS, GREAT DETECTIVE WORK. THAT’S WHAT MADE IT HAPPEN.”

LYNN ABRAHAM_D.A. OF PHILADELPHIA, SPEAKING OF EXTREME’S EX82 CAMERA WHICH LEAD TO ARREST OF NOW CONVICTED SERIAL KILLER.



	LENS OPTION	MAX NIGHT VISION DISTANCE (detection level imaging)	AVAILABLE INFRARED WAVELENGTH	RESOLUTION	POWER CONSUMPTION	OPERATIONAL RANGE
NEW! EX80 IR IMAGER™ Powered by BLACKDIAMOND™ IP VERSION AVAILABLE	Varifocal 4-9mm	200ft 60m	850nm or 950nm	480 TVL colour 480 TVL monochrome	22W	-50°C to +50°C -58°F to +122°F
NEW! EX82 IR IMAGER™ Powered by BLACKDIAMOND™ IP VERSION AVAILABLE	Varifocal 4-9mm, 9-22mm	250ft +75m	850nm or 940nm	550 TVL colour 550 TVL monochrome	26.7W	-50°C to +50°C -58°F to +122°F
NEW! EX30 IR IMAGER™ Powered by BLACKDIAMOND™ IP VERSION AVAILABLE	Varifocal: 5-50mm	350ft +100m	850nm or 940nm	550 TVL colour 570 TVL monochrome	25W	-50°C to +50°C -58°F to +122°F
NEW! EX85 MEGAPIXEL-IP IR IMAGER™ Powered by BLACKDIAMOND™	8, 12, 25 or 50mm fixed megapixel lens	420ft 128m	850nm	3.1 megapixel colour by day 1.3 megapixel mono at night	4.5W day max 24W night max	-50°C to +50°C -58°F to +122°F
EX10 Extreme Environment Camera	4, 6, 8, 12mm lens option	NA	NA	420 TVL	1.4W	-60°C to +60°C -76°F to +140°F
EX14 All-Environment Camera	Varifocal 4-8mm	40ft 12m	850nm	550 TVL colour 570 TVL monochrome	2W	-40°C to +50°C -40°F to +122°F
EX36N Seclusion Cell Camera IP VERSION AVAILABLE	Fixed lenses: 2.5-3.6mm	30ft 9m	850 nm, 940 nm	550 TVL colour 570 TVL monochrome	10.8W	-50°C to +50°C -58°F to +122°F
EX72 ATEX Explosion Protected Surveillance Camera	Varifocal 4-9mm or 9-22mm	40ft 12m	850nm	550 TVL colour 570 TVL monochrome	10W	-50°C to +40°C -58°F to +104°F

INFRARED IMAGERS™ POWERED BY BLACKDIAMOND™

DCRI PERFORMANCE PARAMETERS FOR NEW INFRARED IMAGERS™

New performance parameters assist security professionals in confidently and accurately specifying critical CCTV projects. The night vision capabilities of every Infrared Imager™ is provided for each of the four surveillance levels of the DCRI criteria - Detection, Classification, Recognition and Identification.

EX80 INFRARED IMAGER



DETECTION 200ft (60m)
CLASSIFICATION 150ft (45m)
RECOGNITION 100ft (30m)
IDENTIFICATION 50ft (15m)

EX80 IMAGE ABOVE SHOWS CLASSIFICATION AT 150FT (45M).

EX82 INFRARED IMAGER



DETECTION 250ft (75m)
CLASSIFICATION 200ft (60m)
RECOGNITION 150ft (45m)
IDENTIFICATION 75ft (25m)

EX82 IMAGE ABOVE SHOWS RECOGNITION AT 150FT (45M).

EX30 INFRARED IMAGER



DETECTION 350ft (100m)
CLASSIFICATION 300ft (90m)
RECOGNITION 200ft (60m)
IDENTIFICATION 150ft (45m)

EX30 IMAGE ABOVE SHOWS IDENTIFICATION AT 150FT (45M).



SPECIFIED FOR THE WORLD'S TOUGHEST ENVIRONMENTS PERFORMANCE, RELIABILITY, VALUE

In designing cameras destined for vandal-resistant applications, Extreme engineers operate on two principles. First, that each camera will be subjected to brutal physical attacks. Second, that each camera must not only survive, but also continue to deliver outstanding pictures before, during and after such attacks.

The WZseries, powered by Extreme CCTV, represents an evolution of technical advances that has spanned a decade. In its early beginnings, the WZseries delivered smart, tough and practical surveillance solutions for important security projects across the globe. Today, the WZseries builds on its field-proven line by introducing a new range of Integrated Day-Night™ bullet cameras. WZseries represents a suite of surveillance solutions that is an impeccable combination of performance, reliability and value.



WZ45N FOR NIGHT VISION TO 18M (65FT)



	DESCRIPTION	LENS DETAILS	RESOLUTION	NIGHT VISION DISTANCE	INPUT VOLTAGE	OPERATING TEMPERATURE
	WZ14 Day-Night Bullet Camera	3.7 mm fixed lens	380 TVL	8m [25ft]	12 to 24 VDC or VAC	-30°C to +55°C -22°F to +131°F
	WZ16 Day-Night Bullet Camera	4-9mm varifocal mechanical lens filter	520 TVL	18m [60ft]	12 to 24 VDC or VAC	-30°C to +55°C -22°F to +131°F
	WZ18 Day-Night Bullet Camera	3-12mm varifocal auto-iris lens	550 TVL	20m [65ft]	12 to 24 VDC or VAC	-30°C to +55°C -22°F to +131°F
	WZ20 Day-Night Bullet Camera	5-50mm varifocal IR-corrected lens	550 TVL	45m [150ft]	12 to 24 VDC or VAC	-30°C to +55°C -22°F to +131°F
	WZ45N Integrated Day-Night Dome Camera	3-12mm varifocal auto-iris lens	520 TVL	18m [60ft]	12 to 24 VDC or VAC	-30°C to +55°C -22°F to +131°F

DESIGNED FOR THE REAL WORLD



WZ16
SONY SUPERHAD
1/3" CCD, 520 TVL

18 LEDs for 18m (60ft) of night vision in zero lux

Mechanical lens filter for accurate daytime colour and exceptional performance under infrared

Virtually no focus shift or IR bleed



WZ18
550 TVL HIGH RESOLUTION
1/3" SUPERHAD CCD

Mechanical filter for vivid daytime colour and outstanding infrared night vision

20m (65ft) of active-infrared high performance night vision in zero lux

3-12mm varifocal auto-iris lens



WZ20
550 TVL HIGH RESOLUTION
1/3" LXR CCD

Compact, all-weather housing

External zoom and focus adjustments

30 LEDs for 45m (150ft) of high performance active-infrared night vision in zero lux

MIC1 SERIES CAMERAS REDEFINING PAN-TILT-ZOOM THROUGH DESIGN INNOVATION

The MIC1, or "Metal Mickey", 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 the use of traditional dome and PTZ cameras and is broken down into specific ranges that offer a best fit solution for virtually any application.


"IN ONE YEAR ALONE I LOST £35,000 OF CAMERA EQUIPMENT DUE TO BALLISTIC ATTACKS, WITH BRICKS BEING THROWN AND BALL-BEARING GUNS BEING USED. CABLING WAS ALSO OFTEN RIPPED FROM THE BACK OF THE CAMERA HOUSINGS. BUT THE MIC1 CAMERA IS TOUGH ENOUGH TO BE DEPLOYED ANYWHERE WITHOUT SUFFERING THAT SORT OF DAMAGE."

OLIVER O'DELL_SWINDON CRIME REDUCTION PARTNERSHIP

MIC1-412 THERMAL UNIT WITH FLAT GLASS WINDOW AND EXTERNAL WIPER TO ELIMINATE IMAGE DISTORTION



MIC1 SERIES PRODUCT MATRIX

	IMAGE SENSOR	FOCAL LENGTH	ZOOM	PAN-TILT RANGE	CONSTRUCTION	MOUNTING OPTIONS	APPLICATION NOTES
 MIC1-400 Aluminium	470 TVL (NTSC) 460 TVL (PAL) colour / mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	CNC-milled 6mm thick aluminium, IP68, NEMA TYPE 4X	Upright, inverted or canted	Town centres, general CCTV, rapid deployment, high security
 MIC1-400S Stainless Steel	470 TVL (NTSC) 460 TVL (PAL) colour / mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	CNC-milled 316 stainless steel, IP68, NEMA TYPE 4X	Upright, inverted or canted	Marine/coastal, nuclear, medical, food production, architectural
 MIC1-400 Underwater	470 TVL (NTSC) 460 TVL (PAL) colour / mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	MIC1-400U/L CNC-milled aluminium or MIC1-400-U/T 316 stainless steel IP68, NEMA 4X rated	Upright, inverted or canted	Ports & harbours, nuclear, marine research, swimming pools
 MIC1-440 ATEX Certified	470 TVL (NTSC) 460 TVL (PAL) colour / mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	CNC-milled 316 stainless steel, IP68, NEMA 4X, certified to ATEX Directive 94/9/EC Exd IIC T6	Upright or inverted	Oil & gas, petrochemical, hazardous locations
 MIC1-400 Infrared	470 TVL (NTSC) 460 TVL (PAL) colour / mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	Aluminium or 316 stainless steel, camera IP68 rated, IR lamps IP67 rated.	Upright, inverted or canted	Town centres, general CCTV, rapid deployment, 24/7 surveillance
 MIC1-400 Public Address	470 TVL (NTSC) 460 TVL (PAL) colour / mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	Aluminium or 316 stainless steel, camera IP68 rated, speakers IP66 rated.	Upright, inverted or canted	Town centres, public spaces, events, railway stations, stadia
 MIC1-401 Static	470 TVL colour/mono with mechanical IR cut filter	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital	360° continuous pan 320° tilt	Aluminium, IP68, NEMA4X	Upright, inverted or canted	Town centres, general CCTV, rapid deployment, high security
 MIC1-412 Thermal	CCD: 470 TVL colour / monochrome Thermal: 320 x 240 pixels	4.1mm to 73.8mm or 3.4mm to 122.4mm	18x optical, 12x digital or 36x optical, 12x digital 50mm FLIR Imager	360° continuous pan 320° tilt	Aluminium, IP67, NEMA4X	Upright or inverted	Perimeter security, border control, rapid deployment, fire service

MIC1 APPLICATIONS



COASTAL APPLICATIONS
Faultless operation in even the harshest conditions thanks to the MIC1 series' integrated wiper option and IP68 rating



RAPID DEPLOYMENT
The MIC1 series has been utilised in hundreds of rapid deployment applications worldwide thanks to its robust construction and ability to be set-up very quickly.



TOWN CENTRES & PUBLIC AREAS
Fully vandal resistant and discreet, the MIC1 series is able to seamlessly integrate into urban areas

REG LICENSE PLATE CAPTURE: SEE THE LIGHT, GET THE PLATE.™

REG® is the global de facto standard for license plate capture performance. Providing irrefutable plate images under seemingly impossible conditions, REG® utilizes award-winning Ambient Rejection technology to capture plates of vehicles moving up to 120mph (190kph) in any lighting condition.

Incorporating proprietary DHC-Imaging™, REG® delivers definitive high contrast plate images that are field-proven for effectiveness in vehicle surveillance, software integration and post-incident investigation.

REG® is packed with installer-friendly features including a cable-managed wall bracket, NEMA4 construction, 12V-24V operation and various mounting options. REG® is providing consistent, reliable license plate capture in thousands of high profile applications around the world.

"THE REG® CAMERA CAPTURES THE LICENSE PLATES FLAWLESSLY, AND THE CAMERA IS PERFECT FOR DVR APPLICATIONS BECAUSE OF ITS HIGH RESOLUTION. IT SURPASSED OUR EXPECTATIONS IN EVERY WAY."

DAN MAYHEW_ELITE SECURITY



REG LICENSE PLATE CAPTURE PRODUCT MATRIX

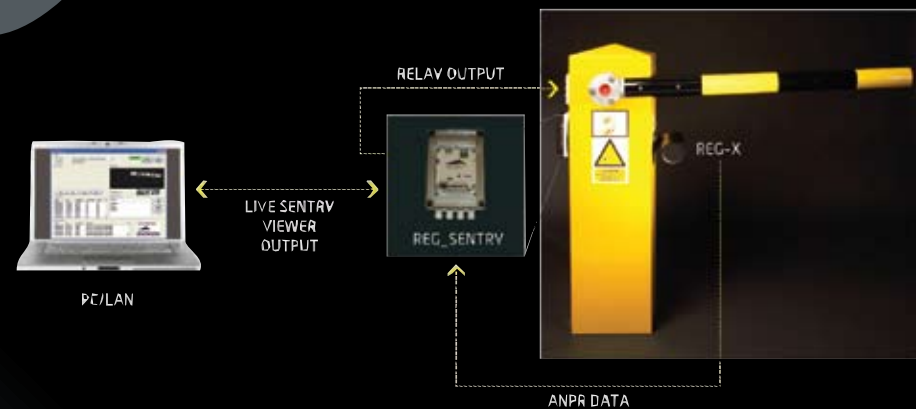
	LENS OPTIONS	CAPTURE RANGE	CAPTURE SPEED	AVAILABLE INFRARED WAVELENGTH	VOLTAGE	OPERATIONAL RANGE
						
REG-X Close Range License Plate Capture Camera	16mm	15-25ft 4.5m - 7.6m	50mph 80kph	850nm	12/24V AC or DC	-30°C to +55°C -22°F to +130°F
	12mm 16mm 25mm 35mm 50mm	10-20ft 3-6m 16-26ft 5-8m 23-40ft 7-12m 36-59ft 11-18m 55-82ft 17-25m	100mph 160kph	850nm	12/24V AC or DC	-50°C to +50°C -58°F to +122°F
	12mm 16mm 25mm 35mm 50mm	10-20ft 3-6m 16-26ft 5-8m 23-40ft 7-12m 36-59ft 11-18m 55-82ft 17-25m	100mph 160kph	850nm	12/24V AC or DC	-50°C to +50°C -58°F to +122°F
	12mm 16mm 25mm 35mm 50mm	10-20ft 3-6m 16-26ft 5-8m 23-40ft 7-12m 36-59ft 11-18m 55-82ft 17-25m	100mph 160kph	850nm	12/24V AC or DC	-50°C to +50°C -58°F to +122°F
	50mm 75mm 100mm	50-82ft 15-25m 65-115ft 20-35m 100-165ft 30-50m	120mph 190kph	850nm	24V AC or DC	-50°C to +50°C -58°F to +122°F

REG® connects directly to industry standard DVRs

NEW REG SENTRY ON PATROL

REG-SENTRY is an ANPR-based automated vehicle access control system. Designed to be used as either a stand-alone solution or to be integrated with existing access control equipment, REG-SENTRY allows the control and configure the system to automatically permit or bar entry to all vehicle attempting to enter a secure site.

A complete solution, comprising of a control box with embedded processing engine, a choice REG™ number plate capture cameras to accommodate a range of required capture distances and PC based Sentry-Viewer software which allows users to upload up to 10'0000 licence plates, REG-SENTRY delivers a flexible, user friendly solution for a wide range of access control applications.





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SURVEILLANCE SYSTEMS

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