



Extreme Series

High performance imaging in all environments



BOSCH

Invented for life



Anytime. Anywhere.

Extreme Series for surveillance imaging under seemingly impossible conditions.



MIC400 ▶
Infrared PTZ Camera
////////////////////

Conquer the darkness

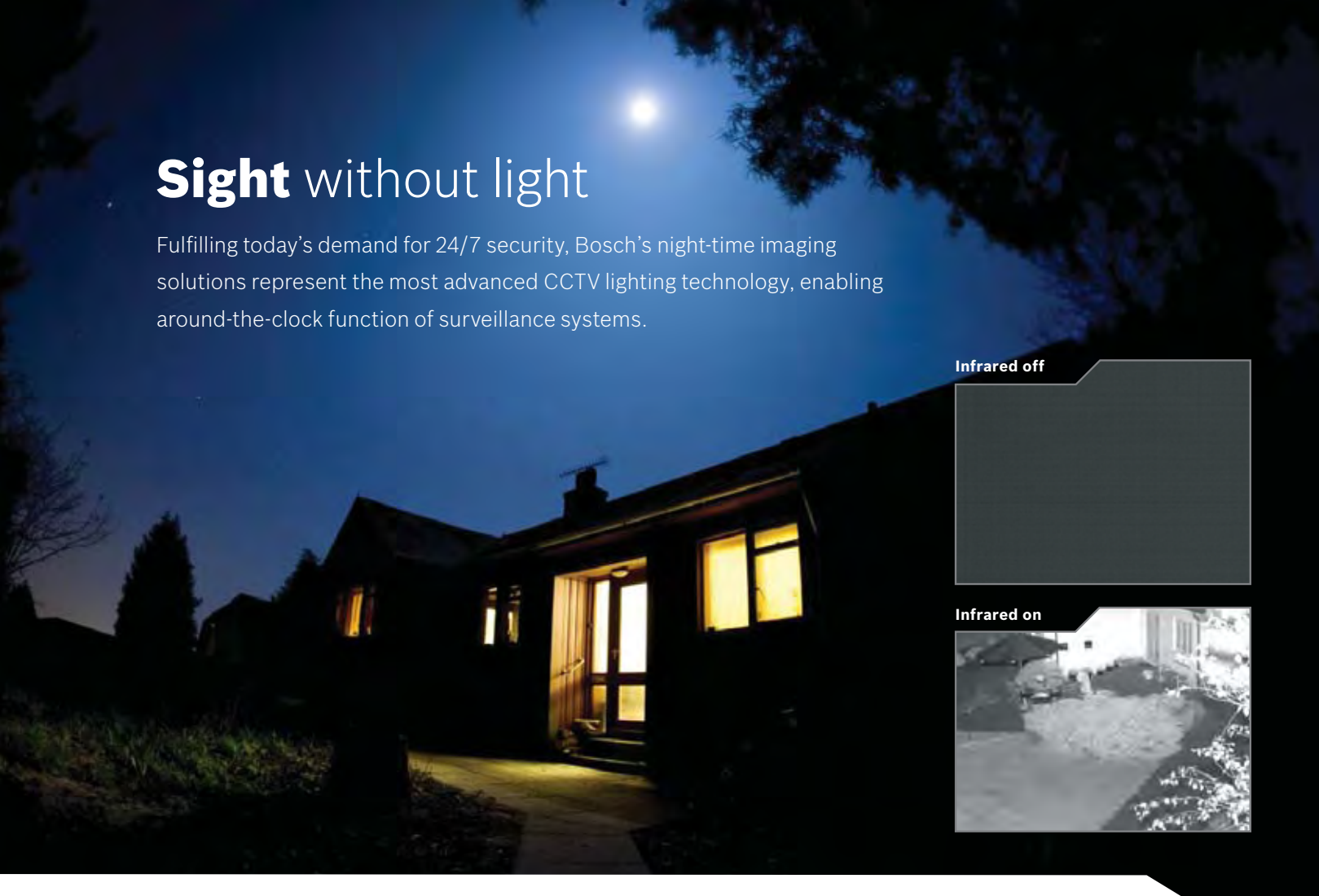
We are masters of light. We reflect it, shape it and control it to give you power over darkness. We use this “invisible light” to capture images under extreme, seemingly impossible conditions.

Survive the elements

Bosch’s Extreme Series is designed for real world effectiveness. From the extreme cold of the Antarctic, to the extreme heat of the Middle Eastern desert, from the corrosive sting of an industrial plant to the physical abuse of a hostile environment.

Sight without light

Fulfilling today's demand for 24/7 security, Bosch's night-time imaging solutions represent the most advanced CCTV lighting technology, enabling around-the-clock function of surveillance systems.



▶ Active-Infrared and White Light Illuminators

Active-infrared and white light illuminators – including award-winning Black Diamond technology - are integral components in true, 24/7 surveillance systems, designed to optimize day/night operation of CCTV cameras and video analytic software.

▶ Integrated Infrared Cameras

A suite of cameras designed and calibrated to deliver high performance, 24/7 surveillance. Integrated infrared cameras incorporate Black Diamond night vision technology and option for embedded Intelligent Video Analytics. Megapixel and IP models available.

▶ IR Bullet Cameras and MiniDome

The Extreme Series IR Bullet Cameras and MiniDome constitute surveillance solutions that delivers an impeccable combination of performance, reliability and value. These cameras are ideal for high-end residential properties, police stations and commercial applications.



Feature Product: **UFLED** Infrared Illuminator

Shown with Dinion XF Day/Night camera in all weather housing ▼
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Black Diamond Infrared Technology

Even Illumination balances scene foreground and background eliminating hotspots and underexposure

Regulated low power input circuit allows illuminator to be powered direct from a 12 volts DC / 24 volts AC supply

Key Applications

- ▶ Critical infrastructure
- ▶ Ports and airports
- ▶ Perimeter surveillance
- ▶ Defense / force protection
- ▶ Commercial buildings

Constant Light Technology

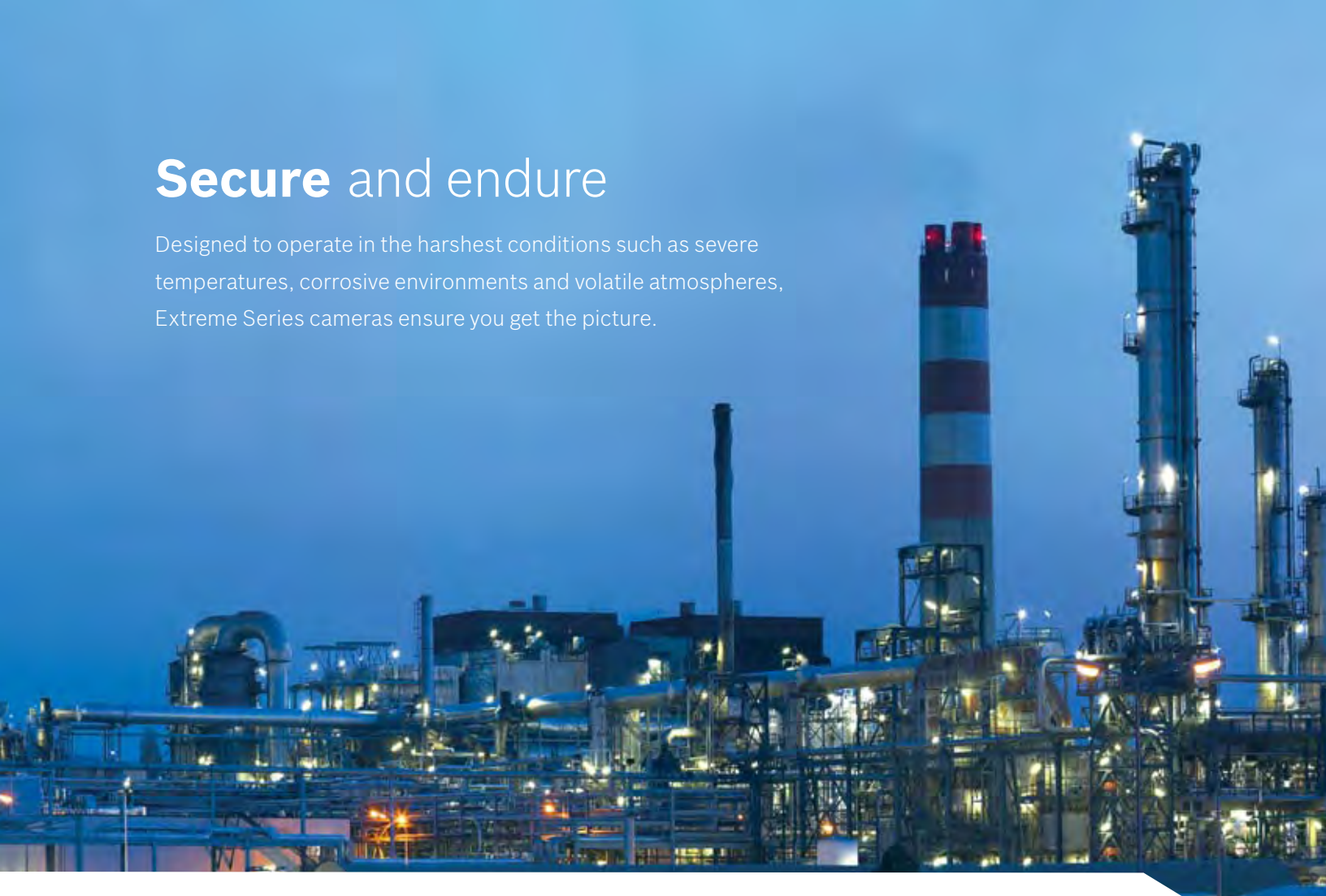
Onboard microprocessor automatically compensates for LED degradation ensuring consistent light levels



Black Diamond lights the foreground and background of the camera view to deliver even illumination and produce night-time images free of hot spots and underexposure.

Secure and endure

Designed to operate in the harshest conditions such as severe temperatures, corrosive environments and volatile atmospheres, Extreme Series cameras ensure you get the picture.



Feature Product: **MIC400** Ruggedized Pan-Tilt-Zoom Camera

Water and Dust Proof

Protected and certified for IP68 / NEMA 4X

Performance Optics

Superior optical zoom through flat glass window and wiper



Mounting Versatility

Upside down or right-side up 320° tilt and 360° pan

Precision Control

Brushless motor for speed control and accuracy

Robust, Rugged and Reliable

Proven performance in extreme conditions

Key Applications

- ▶ Critical infrastructure
- ▶ Ports and airports
- ▶ Public area surveillance
- ▶ Defense / force protection
- ▶ Industrial locations



▶ Extreme Environment

Tough environments demand tough cameras. No-Grip design and vandal-resistant housings withstand brutal attacks and uphold safety at correctional and institutional facilities and other vandal-prone locations.

▶ MIC Series

Built to exacting standards, the MIC series is available in aluminum, stainless steel, underwater, certified explosion-protected, infrared, public address and thermal form factors. Such environmental versatility enables the MIC Series to deliver absolute performance in a vast range of locations.

▶ Explosion Protected

Hazardous locations such as oil and gas facilities require cameras that maximize safety and monitor key processes. The Explosion protected product line adheres to the most stringent North American and worldwide standards to deliver certified, reliable surveillance

EX36 ▶



MIC412 ▶

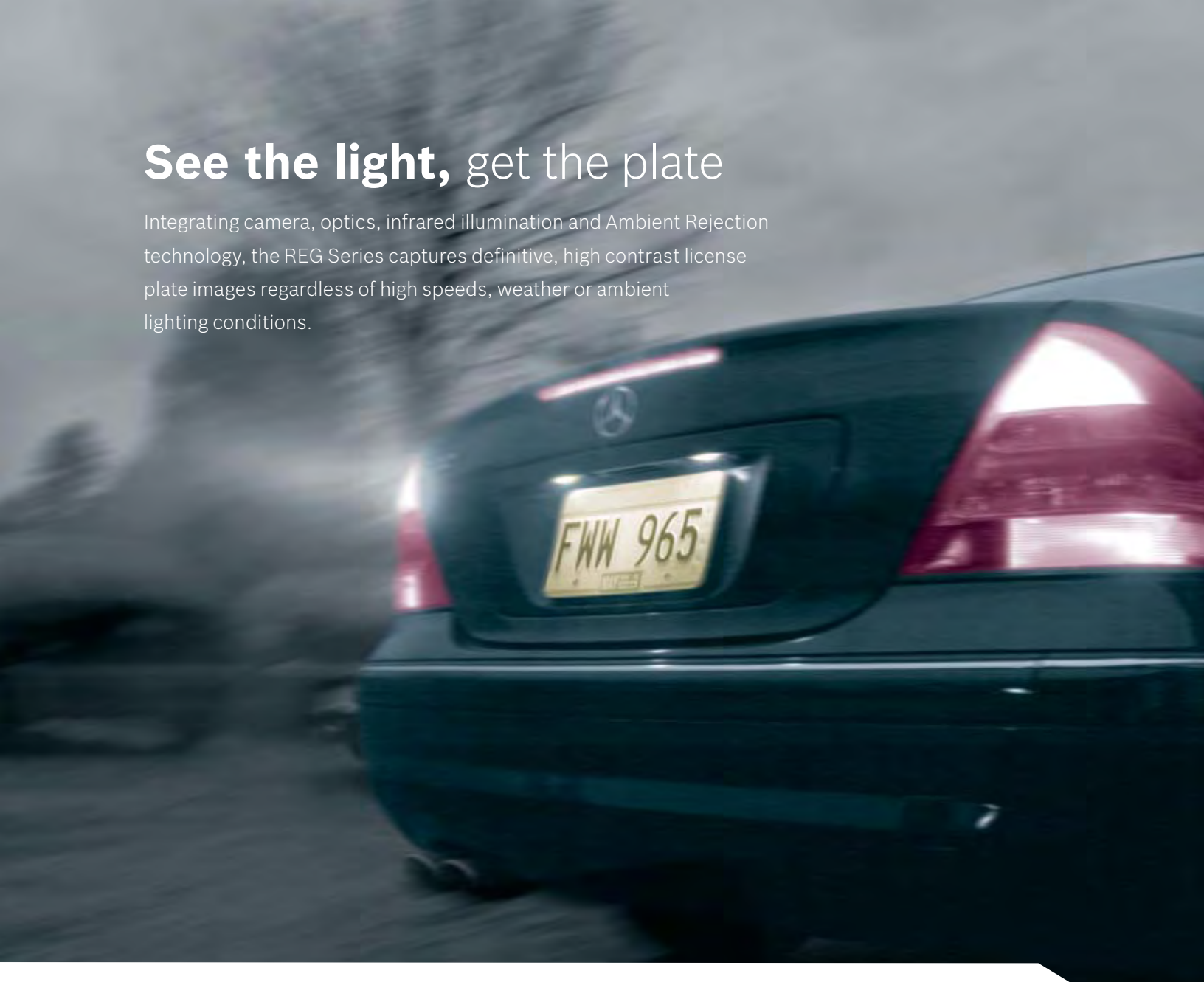


EX62XF ▶



See the light, get the plate

Integrating camera, optics, infrared illumination and Ambient Rejection technology, the REG Series captures definitive, high contrast license plate images regardless of high speeds, weather or ambient lighting conditions.



Feature Product: **REG-L1** License Plate Capture Camera

24/7 License Plate Capture

Using the power of infrared illumination

High Speed Plate Capture

High shutter speed optics captures plates up to 100mph (~160kph)

Clear, High Contrast Plate Images

Ambient rejection technology eliminates glare from sunlight, headlights and high-beams



Key Applications

- ▶ Access control
- ▶ Parking
- ▶ Private estates and gated communities
- ▶ Toll booths
- ▶ Intelligent Transportation Systems
- ▶ Automatic license plate recognition (ALPR)

Close-range license plate capture

- ▶ Provides close-range plate capture from 15 to 25ft
- ▶ Precision-engineered optics captures plates from vehicles moving up to 50mph (80kph)
- ▶ Discreet and compact with installer friendly design

REG-X ▶



Long-range license plate capture

- ▶ Provides mid to long range plate capture up to 120ft
- ▶ Precision-engineered optics captures plates from vehicles moving up to 120mph (190kph)
- ▶ Optional integrated color overview camera available

REG-Z1 ▶



Conventional Camera



REG License Plate Capture Camera



Beyond Extreme

Driven by our mandate to deliver important new capabilities in active-imaging, we push the laws of opto-electronic physics to deliver solutions for the ever-changing challenges of critical security.



Feature Product: **GVS1000** Long-Range Pan-Tilt-Zoom Camera System

For applications requiring the highest levels of technical surveillance, GVS1000 provides high-resolution, PTZ functionality that defines events up to a distance of 3,900ft (1200m) in day or dark conditions. Designed for critical applications including defense and homeland security, GVS1000 can automatically acquire evidentiary video to determine the threat level of unusual activity. Integrates with intelligent software for proactive seek and define security.

Ultimate Image Quality

1/2" Dinion XF for outstanding daytime imaging and performance under infrared

Definitive Details

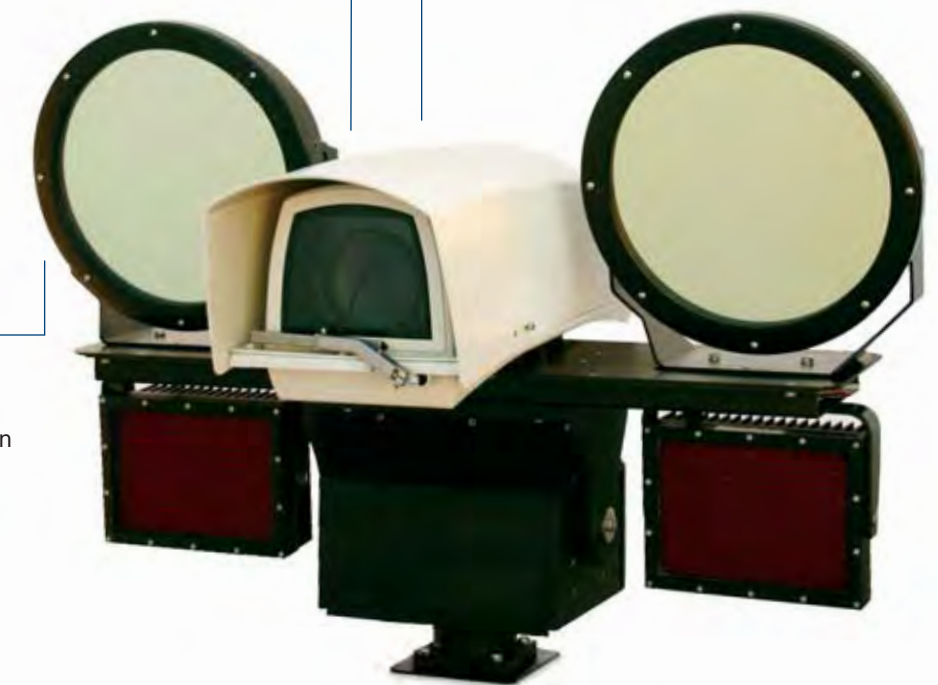
12.5mm to 750mm (60x) IR optimized motorized zoom lens equipped with doubler

Night Time Seek and Define

Long-range active-infrared allows high resolution target identification

Precision Speed Control

Variable speed pan-tilt motor with pinpoint accuracy and zero backlash



Night-time marine application showing target acquisition and interrogation from 750m in total darkness

Wide 00:06:52



Mid-zoom 00:09:11



Telephoto 00:10:29



A tradition of quality and innovation

For over 100 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology backed by the highest standards for service and support.

Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.

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