MAGAL S3
Security, Safety, Site management

MAGCAM SERIES




Core features

- Day / night surveillance solution
- Uniform picture quality in very bright daylight conditions and total darkness
- Optional video analytics for dual alarm technology system
- Automatic or remote controlled day / night switchover
- Selection of color or Black / White (B/W) for the day camera
- Infrared illuminators for 60 m range - provides entire DTR with uniform coverage
- IP65 case for all weather conditions
- Green product - consumes less than 20 W per 60 m

Description

The **MagCam Series** combines the technologies of DTR perimeter taut wire intrusion detection, day and/or night camera and an IR illuminator. The system provides full and uniform fence surveillance under very bright daylight and total darkness, augmented by a highly effective IR illuminator, packaged in an IP65 case, for all weather conditions.

Combined with the taut wire (DTR) alarm, the system displays a clear view of the alerted section and its neighboring sections, enabling the operator to verify and assess the relevant region.

Connecting the cameras to a Magal's DreamBox provides an exceptional second intrusion detection layer, based on sophisticated outdoor video analytics, such as Virtual Fence algorithms.

Markets

The MagCam series is an ideal solution for very critical and sensitive sites, where nuisance or false alarms cannot be compromised.

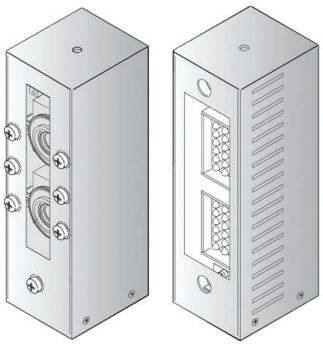
This includes borders, military sites, airports, correctional facilities, chemical and energy assets and other homeland secured assets.

How it works

The MagCam Series comes either integrated into DTR sensor posts or as a standalone package.

The standalone package includes a dual camera unit and two illuminator units; typically the 2 illuminators are separated in order to provide uniform lighting for a range of 60m - one illuminator is mounted near the camera while the other is mounted 30m apart.

When integrated with the DTR, the elongated sensor post includes one dual camera unit and one illuminator. The other illuminator is mounted on the anchor post midway between two sensor posts.



Stand-alone MagCam

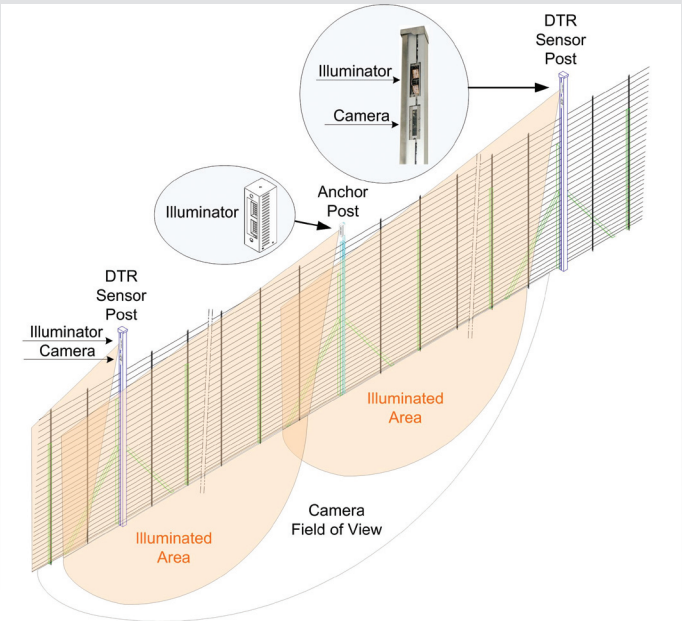
Installation example of stand-alone units

MagCam integrated into DTR post

Technical Specifications

MAGCAM

MagCam system layout



TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Case: Stainless steel
Front glass: 3 mm thick with non fogging coat
Sealing: IP65
Heater: Built-in 2.6 W ceramic heater
Power: 15 V / 1.2 A max. (with IR illuminator)
IR illuminator output: 10.8 V / 850 mA max. (for 2 illuminators)
Operating temperature: -35 °C to 55 °C (-31 °F to 131 °F)
Measurement: 59 W x 186 H x 70 mm D (2.32 W x 7.32 H x 2.6 in. D)
Weight: 1.2 kg (2.65 lbs.) approximately

DAY COLOUR CAMERA

Pick-up device: 1.27 cm (0.5 in.) interline transfer CCD
Pixels: PAL (752 H x 582 V); NTSC 380 K (768 H x 494 V)
Resolution: Horizontal - 480 TVL; 440 (PAL); 375 (NTSC) TVL
Amplitude response: Greater than 60% at 360 lines
Video bandwidth: 7 MHz ± 3 dB
Video output: 1.0 V p-p / 75 Ohm
S/N ratio: Better than 50 dB (AGC off)
AGC off level: 20 ~ 50 Lux
Usable sensitivity: Better than 0.1 Lux
White balance: Auto trace via image signal
Light control range: 0.1 ~ 100,000 Lux
Infra-red suppression: Built-in optical quartz LPF / IR cut filter
Vertical gleam arrest: Better than 60 dB
Lens system: 4.5 mm; F2.6, 6 mm; F1.9, 10 mm; F1.8, 13 - 20 mm; F1.9 auto-iris with ND and quartz filters
Auto iris delay time: Less than 2 seconds
DSP signals: RS-232 via set-up port
DSP commands: Shutter speed, white balance, AGC, Gamma, backlight compensation, Y, C and dynamic range
Fast shutter speed: 1/50 seconds ~ 1/10,000 seconds
White balance: Auto, red ~ blue
AGC: Off, minimum ~ maximum
Backlight compensation: 5 zones setting, 0 ~ 100% weight average
Y, C & dynamic range: Set-up process (by special key)
Operation voltage: 12 V ~ 15 VDC
Current consumption: 200 mA max.

DAY B/W CAMERA

Pick-up imager: 1.27 cm (0.5 in.) interline transfer CCD
Pixels: CCIR 315 K (582 H x 542 V); EIA 286 K (582 H x 492 V)
Usable sensitivity: 0.5 Lux
Resolution: Horizontal - 430 TVL; Vertical - 400 (CCIR); 375 (EIA) TVL
Amplitude response: Greater than 60% at 300 lines
Video bandwidth: 7 MHz ± 3 dB
Video output: 1.0 V p-p / 75 Ohm
S/N ratio: Better than 50 dB (AGC off)
AGC: Up to 24 dB gain
AGC off level: 3 - 4 Lux
Usable sensitivity: Better than 0.5 Lux
Light control range: 0.5 ~ 100,000 Lux

NIGHT (IR) CAMERA

Pick-up device: 1.27 cm (0.5 in.) interline transfer CCD
Pixels: CCIR 438 K (752 H x 582 V); EIA 380 K (768 H x 494 V)
Resolution: Horizontal - 580 VTL; Vertical - 440 (CCIR); 375 (EIA) TVL
Amplitude response: Greater than 50% at 460 H TVL
Bandwidth: 8 MHz ± 3 dB
Video output: 1.0 V p-p / 75 Ohm
S/N ratio: Better than 58 dB (AGC off)
AGC: Up to 37 dB gain
AGC off level: 1 ~ 2 Lux
Usable sensitivity: Better than 0.01 Lux
Light control range: 0.01 ~ 15,000 lux (visual spectrum)
Infra-red spectrum: Over 1200 nm (no IR cut filter)
DSP control signal: RS-232 via set-up port
DSP commands: Shutter speed, AGC, gamma and dynamic range

DAY / NIGHT SWITCH OVER CONTROL

Switching: Auto (sensor) or remote controlled
Sensor: Light sensing IC
Sensing level: 45 Lux ± 10 Lux
Sensing spectrum: 500 nm ~ 720 nm
IR sensing: N.A. (IR cut filter included)
Sensing time delay: Day / night over 15 ~ 30 sec.
Night / day instant (<1 sec.)
Day / night switch over: High speed relay
IR illuminator output: 10.8 V / 850 mA max.
IR illuminator on time: Along with day / night switch over

IR ILLUMINATOR

Case: Stainless steel (SUS304)
IR spectrum: 850 nm
IR angle of illumination: 35°; 10.8 V / 420 mA max.
Operating temperature: -35 °C to 55 °C (-31 °F to 131 °F)
Measurement: 61 W x 208 H x 66 mm D (2.4 W x 8.2 x 2.6 in. D)
Weight: 1.2 kg (2.65 lbs.) approximately

LENS

Dual lens system: 2 x 8 mm; F1.6 or 2 x 10 mm; F1.8 auto iris with ND cut filters
Auto iris delay time: Less than 1 second

Specifications are subject to change without prior notice.

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