



Camera Applications



Superior Thermal Security Camera



EyeSec is one of the most extensive series of thermal imaging cameras providing solutions for all security and surveillance needs. It delivers crisp and clear thermal images in total darkness, light fog or smoke, and features Opgal's state-of-the-art uncooled thermal technology. With a spectral range of 7.5-14 μ , and resolution and pitch options of 640 x 480, 17 μ and 384 x 288, 25 μ , the line offers some of the company's newest on-camera innovations like fire-detection analytics, 12x digital zoom, and several novel lenses. EyeSec is available either as a fixed camera or on an integrated pan-tilt platform, and can be configured with TCP/IP video and control.



EyeSec Cameras



Key Benefits

- **High Image Quality** - High resolution, small pixel pitch
- **Best Suited for Analytics** - Unmatched image processing algorithms provide enhanced contrast for VMD and fire detection
- **Advanced Optics** - Continuous Zoom, Dual Field of View, f1.0 Motorized Lenses, Auto-Focus
- **Versatility** - Wide variety of fixed, PTZ, and optic configurations
- **Easy Installation** - Pelco D protocol, common industry mounting options, serial communication
- **Rugged Design** - Designed and certified to IP66 and MIL standards

Available Configurations

EyeSec is available with a wide variety of camera and lens options, including:

- **Advanced Motorized Lenses**
 - Continuous Zoom - 15-100mm
 - Dual FOV - 45/135mm
 - Fixed FOV (f1.0) - 25mm, 50mm, 75mm
- **Auto - Focus**
- **Single FOV Athermalized Lenses**
 - Fixed FOV - 35mm, 50mm, 60mm, 100mm
- **Resolution (RS170/CCIR)**
 - 384x288, 25μ
 - 640x480, 17μ
- **Fixed or Pan-Tilt Mounted**
- **Fire Detection and Fire Risk Assessment**

Applications

- Homeland Security
- Border Protection
- Petrochemical
- Port Security
- Transportation
- Nuclear Facility
- Critical Infrastructure
- Airports



EyeSec Specifications

Imaging Characteristics	640 x 480, 17μ	384 x 288, 25μ
Imager Type	Uncooled Microbolometer 7.5-14μ	
Effective Pixels	640 x 480	384 x 288
NETD	< 50° mK / f1.0	< 40° mK / f1.0
Video Output	PAL (25Hz/8.3Hz), 1.0V p-p, 75ohm / NTSC (30Hz/7.5Hz), 1.0V p-p, 75ohm	
Motorized Lenses Dual FOV Continuous Zoom Fixed Motorized f1.0	45/135mm (14.3° / 4.6°) 15-100mm (42.2° - 6.2°) 25mm/50mm/75mm (25.1°, 12.4°, 8.3°)	45/135mm (12.6° / 4.1°) 15-100mm (37.1° - 5.5°) 25mm/50mm/75mm (22.1°, 11°, 7.3°)
Single FOV Athermalized	35mm/50mm/60mm/100mm (17.4°, 12.4°, 10.3°, 6.2°)	35mm/50mm/60mm/100mm (15.6°, 11°, 9.1°, 5.5°)

In Camera Analytics	640 x 480, 17μ	384 x 288, 25μ
Fire Detection	Flame detection alert	N/A
Fire Risk Assessment	Temperature threshold alert	N/A
Alarm	Video overlay Dry contact Serial communication	N/A

Electro-Mechanical Characteristics	FIXED	PTZ
Unit Dimensions	12.9" (L) x 8" (W) x 9.5" (H) 328mm (L) x 203mm (W) x 242mm (H)	12.9" (L) x 16.4" (W) x 18.6" (H) 328mm (L) x 417mm (W) x 473mm (H)
Unit Weight	< 11.8lbs (5.35kg) - Dependent on Optics	< 40lbs (18kg) - Dependent on Optics
Environmental Rating	IP66; 93% Relative Humidity	IP66; 93% RH Humidity
Certifications	CE, FCC, RoHS, Mil-Std 810F, EN60950-1, IEC 60721-4-4, EN60950-22, IEC 60068, IEC 60529	CE, FCC, RoHS, Mil-Std 810F, EN60950-1, IEC 60721-4-4, EN60950-22, IEC 60068, IEC 60529
Power Input	12-32VDC	24VDC
Power Consumption	Max 2Amp	Max 7Amp
Operating Temperature	-33° to +55° C (-27° to + 131° F)	-33° to +55° C (-27° to + 131° F)
Compatible Mounts	Wall mount: videotec WBOVA2 Pole mount adaptor: Videotec WSFPA Corner mount: Videotec WCWA	Wall Mount: Pelco WM2000 (PA2000 required); Eneo WD-32 Pole Mount Adaptor: Pelco PA102 (+ WM2000 & PA2000); Eneo WD-32 and PM-7 Corner Mount: Pelco CM100 (+ WM2000 & PA2000)

Control Characteristics	FIXED / PTZ
Communication Protocol	Pelco-D, Opgal
Control Connection	Serial: RS422/232/485
Control Features	Focus, Auto-Focus, Optical & Digital Continuous Zoom

PTZ Characteristics	PTZ
Pan Range	360° continuous
Tilt Range	-90° to +90°
Pan Speed	Variable speed, 0 - 100°/sec horizontal, 0-50°/sec vertical

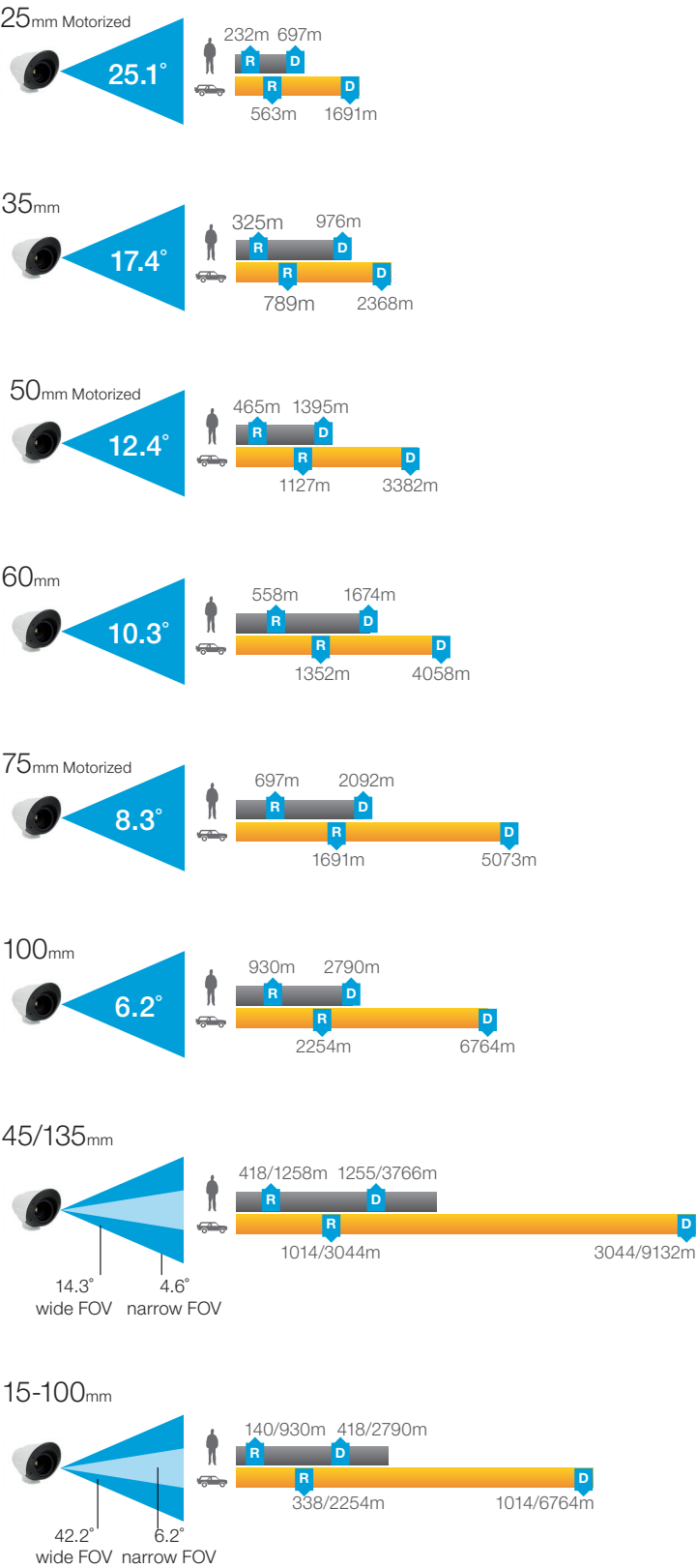
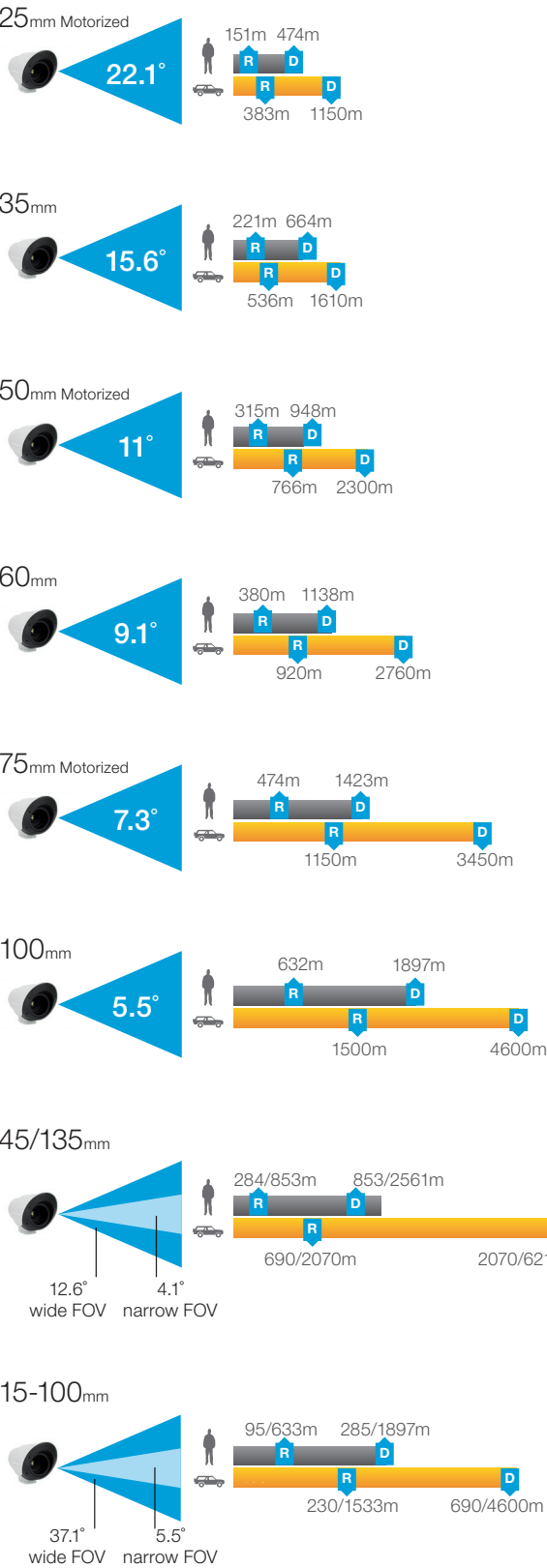
EyeSec Range Performance

384x288 25μ

640x480 17μ

LEGEND

 = human
 = vehicle
 = recognition
 = detection



Note: Distances are calculated based on geometrical values and do not take into account atmospheric conditions



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