



OBZERV



PORTABLE, LONG-RANGE

Active Range-Gated Camera

ARGC-750

THE ARGC-750 NIGHT VISION CAMERA was especially engineered for perimeter and border surveillance. The ARGC-750 can be deployed as a standalone system or easily integrated with radars, Vessel Traffic Management System (VTMS) or thermal imagers. This portable camera allows human identification at distances up to 1 km and license plate reading up to 500 m. Thanks to its operation in the near-infrared, this system also provides the capability to see through glass where the thermal imager is useless.

APPLICATIONS

PERIMETER AND BORDER SURVEILLANCE . CRITICAL INFRASTRUCTURE PROTECTION . PORT SECURITY . SPECIAL OPERATIONS SURVEILLANCE

FEATURES

PORTABLE

ACTIVE RANGE-GATED TECHNOLOGY

NARROW-TO-WIDE CONTINUOUS ZOOM TELESCOPE

ALL ENCLOSED MULTI-SENSORS

BORESIGHT OF CAMERA SENSORS

COMMUNICATION INTERFACES TCP/IP, RS-232 AND RS-422

IMAGE ACQUISITION AT VIDEO RATE (25-30 FRAMES/S)

OPTIONAL INTEGRATED THERMAL IMAGE

BENEFITS

- Fast field deployment on tripod

- Read markings
- Identify individuals
- No sensitivity to external light source or intense light in the field of view
- See through glass: windshields, wheelhouses, etc.
- Perform in harsh weather conditions
- Detect pointed optics
- Display natural contrasted images

- Easy target tracking

- Day and night operation capability (NFOV) through the same high magnification telescope
- ICCD in passive or active mode depending on the mission

- Ability to switch from NFOV color camera to active mode while keeping track of target

- Offers flexibility and easy integration with radars, thermal cameras, VTMS, slew to queue capabilities
- Remote control
- Video broadcast

- Real time video image, no delay, no loss of evidences

- Detection capability with an uncooled thermal imager inside the same unique enclosure

MOTORIZED ZOOM TELESCOPE

Aperture 104 mm

RANGE-GATED ICCD CAMERA (NIGHT-TIME)

Sensor type Custom variant of Gen III Intensifier Tube
 Optical magnification (1) 4.5 to 73 X
 Field of view (H x V) Min: 0.5° x 0.37° Max: 8° x 6°
 Effective picture elements PAL (CCIR): 782 x 582 px
 NTSC (EIA): 659 x 494 px

LASER ILLUMINATOR (PATENT PENDING)

Wavelength 860 nm
 Beam divergence Slaved to the zoom telescope FOV
 Average power (typical) > 4 W
 Average power control User selectable
 Cooling system Thermo-electrically air-cooled

COLOR CAMERA (DAYTIME)

NFOV Optical Magnification (1) 6 to 98 X
 NFOV (H x V) Min: 0.37° x 0.28° Max: 5.98° x 4.48°
 WFOV (H x V) Min: 1.6° x 1.2° Max: 42° x 31.5°
 NFOV Minimum illumination 1.5 lux (typical) at F1.4
 WFOV Minimum illumination 2 lux (typical) at F1.6
 Horizontal resolution PAL: 460 TV lines NTSC: 470 TV lines
 Effective picture elements PAL: 752 x 582 px NTSC: 468 x 494 px

VIDEO

Format PAL or NTSC

ENVIRONMENTAL

IP rating IP-66
 Operating temperature -31°C to 55°C
 Storage temperature -20°C to 63°C

PHYSICAL AND ELECTRICAL

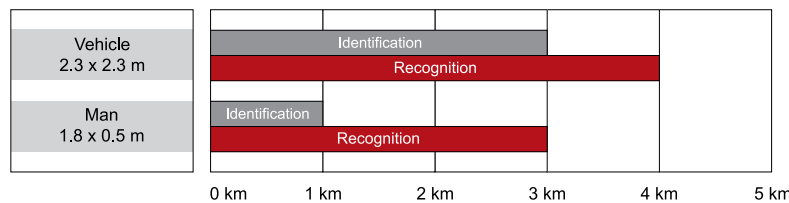
Weight < 23.7 kg
 Dimensions (L x W x H) 58.5 x 35 x 24 cm
 Power supply 100 - 240 VAC, 47 to 63 Hz
 Power consumption (without the Pan & Tilt) < 165 W typical
 Power consumption (with the Pan & Tilt and heater) < 350 W typical

OPTIONS

Console/Display terminal Touchscreen 19", 1280 x 1024 px
 Thermal imager Uncooled microbolometer
 FOV: 10.4° x 8.3°
 Pan & Tilt with joystick Azimuth range continuous 360°, tilt +/- 25°
 Electronic image stabilizer 0.5 to 25 Hz

(1) Compared to a SLR 35 mm camera with a 50 mm focal length lens.

NIGHT-TIME PERFORMANCES

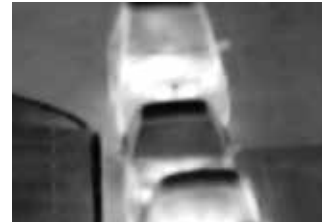


ARGC-750: range performance with NFOV and a visibility better than 25 km

ACTIVE RANGE-GATED CAMERA



THERMAL IMAGER



330m