



ULTRA LONG-RANGE

Active Range-Gated Camera

ARGC-2400

The flagship product offered by Obzerv Technology is its ARGC-2400 surveillance camera, which offers a total day/night 7/24 capability. For night operation, the camera uses the DALIS™ laser illuminator, operating in the near infrared and a very sensitive range-gated intensified CCD camera is used as the detector.

APPLICATIONS

- COASTAL SURVEILLANCE
- BORDER SECURITY
- PROTECTION OF HIGH VALUE ASSET
- ANTITERRORISM OPERATIONS

FEATURES

HIGHLY SENSITIVE SENSOR
COUPLED WITH A NEAR IR LASER

ACTIVE RANGE-GATED
TECHNOLOGY

HIGH MAGNIFICATION
CONTINUOUS-ZOOM TELESCOPE

MULTIPLE SENSORS

BORESIGHT OF CAMERA SENSORS

AVAILABILITY OF TCP/IP, RS-232
AND RS-422 + IMBEDDED PSU
& CAMERA INTELLIGENCE

RUGGED, IP-65 ENCLOSURE

IMAGE ACQUISITION AT VIDEO
RATE (25-30 FRAME/SEC)

BENEFITS

- Ultra-long range capability
- Cost effective deployment: less cameras to cover large areas, less infrastructures (towers, telecom network...), less human resources, less maintenance.

- Read markings
- Identify individuals
- Reject parasitic light in the field of view,
- See through glass, windshields, etc.
- Perform in bad weather conditions,
- Detect optical sight
- Get natural, contrasted images

Ultra high magnification (up to 240 X) for 24/7 surveillance

- Day and night operation through the same main telescope
- ICCD in passive or active mode
- Wide field of view color camera integrated in the enclosure

- Switch from WFOV color camera to NFOV color camera, and to active mode while keeping track of target

- Offers flexibility and easy integration with radar, thermal cameras, VTS, queuing sensors
- Is controlled from one or more control room
- Integrates with digital video recorder systems

Waterproof, resists chemicals, salt spray environment

Real time video image, no delay, no loss of evidence

STRIKING VIDEO IMAGES

ACTIVE RANGE-GATED CAMERA



UNCOOLED THERMAL IMAGER



6.4 km

MOTORIZED ZOOM TELESCOPE

Optical magnification ⁽¹⁾	60 to 240
Field of View (H x V)	Min: 0.15° to 0.11° Max: 0.61° to 0.46°
Aperture	240 mm

RANGE-GATED INTENSIFIED CCD CAMERA

Sensor type	Custom variant of Gen III Intensifier Tube
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DALIS™ (DIODE ARRAY LASER ILLUMINATION SYSTEM)

Wavelength	860 nm (optional 808 nm)
Beam divergence	Slaved to FOV of zoom telescope
Average power	> 15 watts, variable
Cooling system	Thermo-electrically air cooling

COLOR CAMERA

Field of View (H)	Same as the main telescope (0.15° to 0.61°)
Min. illumination	2 lux (typical)
AGC	Continuous

CONTROL AND VIDEO DISPLAY TERMINAL

Number of effective pixels	EIA: 659 x 494 pixels, CCIR: 782 x 582
Graphical User Interface	Touchscreen 1024 x 768 pixels

COMMUNICATION

Command and control	Ethernet (TCP/IP)
Video output	Multiple direct buffered outputs, 75 Ω

ENVIRONMENTAL

IP rating	Designed IP-65
Operating temperature	-20°C to 40°C
Storage temperature	-20°C to 60°C

PHYSICAL AND ELECTRICAL

Weight	< 55 kg
Dimensions (L x W x H)	55 x 37 x 52 cm
Power supply	100 - 240 VAC, 47 to 63 Hz
Power consumption (without the pan & tilt)	< 350 W

OPTIONS

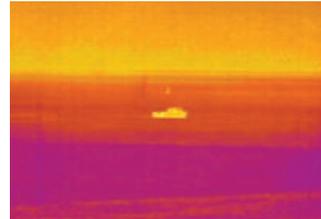
- Thermal imager
- Pan & tilt with joystick
- Electronic stabilizer
- Laser range finder

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

ACTIVE RANGE-GATED CAMERA



UNCOOLED THERMAL IMAGER

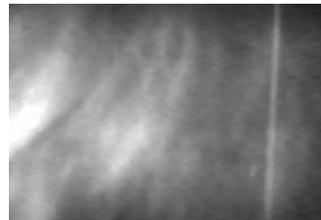


1.9 km

ACTIVE RANGE-GATED CAMERA

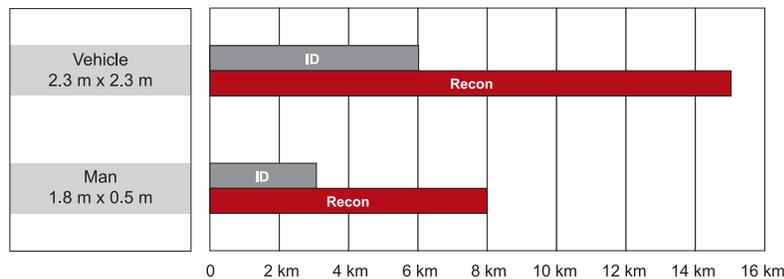


NON-GATED ACTIVE CAMERA



500 m

PERFORMANCES



ARGC-2400: range performance with NFOV