

HOME	MUZZLE BORESIGHTS	SENSOR POSITIONING	VIDEO PRODUCTS	COMPANY PROFILE	COMMENTS/ QUESTIONS
		VAFC100-110 VIDEO AVERAGER	INTENSICON NIGHT/DAY SYSTEMS	DIS-II DIGITAL INTERFACE	

GRAFLEX...Video Products

The INTENSICON is a Dual Channel (Day/Night) Intensified Surveillance Sensor offering unsurpassed night and day performance. The night channel utilizes a high efficiency relay lens rather than fiber optically connecting to the intensifier; the relay lens is much more efficient and there is no discernible image degradation or loss of light to the intensifier. The objective zoom lens has an appropriate aperture and excellent transmission for both superior image intensified (night channel) and low-light (day channel) performance.

Sensor Specifics

Focal Length (Day): 67.5mm (Wide Angle) – 810.0mm (Tele)
 Field of View (Day): 93.5° (Wide Angle) - .90° (Tele)
 Focal Length (Night): 22.5mm (Wide Angle) – 270.0mm (Tele)
 Field of View (Night): 31.5° (Wide Angle) – 2.69° (Tele)
 Transmission: 75% (.45-90 microns)
 Focusing Range: 10 Meters to Infinity
 Intensifier: 18mm
 Intensifier Type: As Governed by Export Restrictions
 Intensifier Resolution: As Governed by Export Restrictions
 Camera (Day): Color CCD 640 x 480
 Camera (Night): Monochrome CCD 640 x 480

Physical Dimensions

Length: 19.75" (50.2 cm)
 Diameter: 6.75" (17.15 cm)
 Weight: 14.4 lb. (8.2 kg)

Day Channel Modeling Data

Intensicon w/12X Zoom (67.5mm-810mm) Adjusted Range Performance Data (Km) @ Day Channel

Target Data	67.5mm	810mm
Man, Detect, 0.8cy	2.97	24.51
Man, Recognize, 2.0cy	1.20	12.09
Man, Identify, 6.4cy	0.36	4.16
Vehicle, Detect, 0.8cy	5.82	33.0
Vehicle, Recognize, 3.0cy	1.59	15.39
Vehicle, Identify, 6.4cy	0.75	7.96

Night Channel Modeling Data

Intensicon w/12X Zoom (22.5mm-270mm) Adjusted Range Performance Data (Meters) @ Night Channel

	Overcast						
	270mm	Starlight	Starlight	1/4 Moon	1/2 Moon	3/4 Moon	Full Moon
Man, Detect, 0.8cy		852	1754	2417	3038	3303	3431
Man, Recognize, 2.0cy		342	709	981	1238	1349	1402
Vehicle, Detect, 0.8cy		1688	3446	4714	5887	6384	6621
Vehicle, Recognize, 3.0cy		456	943	1304	1644	1790	1861

The preceding modeling data was computed by an independent consulting firm and is based on near perfect conditions and industry standards, ie., 30% contrast, 50% probability, and 99% transmission/km. The computations are derived from those used within the US Army Night Vision Laboratories in Fort Belvoir, Virginia, from a computer modeling program based upon the Johnson Criteria, and guidelines established with reference material such as the RCA EO Handbook. The distances are theoretical and should be downgraded according to atmospheric conditions by approximately 40% for day ranges and 20% for night ranges. The data is also based on the use of 640 x 480 CCD cameras and Gen 3 Omni IV image intensifier tubes.

Options Include.....

- Pan & Tilt
- Control Box w/Integral LCD
- Lightweight Tripod