



ELCAN PhantomIR

INFRARED BINOCULAR

The ELCAN PhantomIR Thermal Binocular is a technically advanced device for detection, observation, and perimeter security. Utilizing a high-resolution thermal detector, the PhantomIR is the premier uncooled thermal observation device in the industry, and allows users to observe the heat signatures of people and objects at extreme ranges in daytime or at night and through smoke, fog or camouflage.

The PhantomIR blends user comfort and portability with superior detection performance to create a truly ubiquitous device for observing and evaluating surrounding environments. Incorporating user-selectable reticles, digital magnetic compass, digital inclinometer, zoom function and video out capability, the PhantomIR is a powerful tool for military and security professionals.



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Model PH50 Specifications



Interpupillary Adjustment



Power Control



External Power



Internal Power

Microbolometer Technology	Amorphous Silicon
Optical magnification	2.2x nominal
Digital zoom	2x, 4x (4.4x, 8.8x magnification)
Field of view	11.0 (h) x 8.25 (v) degrees
NETD	<0.05°C
FPA format	320 x 240
Detector pitch	30 microns
Detection range (moving man)	1200m-1700m
Operating temp. range	-20°C to 60°C
Focus range	1m to infinity
Individual eye correction	+/- 6 diopter adjustment
Spectral response	7.5 to 14 microns
Polarity control	White hot / Black hot
Gain / Level	Automatic or manual control
Video out format	NTSC or PAL format via BNC connector
Operating time	5 hours continuous @ 25°C, 10hrs average
Acoustic signature	non-detectable at 10m
Internal power	4 lithium AA batteries
External power	Optional 12v DC, 120/240v AC
Initial start-up time	3 seconds
Tripod attachment	1/4-20 UNC
Weight (w/Batteries)	3.4lb (1.5 kg)
Size (inches)	12 (L) x 7 (W) x 3.5 (H)
Size (mm)	305 (L) x 178 (W) x 89 (H)
Exterior	Molded Santoprene rubber
Environmental	Water resistant, shock resistant
Reticle	Mil-Dot, crosshair with dot, or none

Major Features:
 digital magnetic compass
 digital inclinometer
 interpupillary adjustment
 image brightness control
 manual focus adjustment
 user-selectable reticle
 low battery indicator
 power saver function
 auxillary power jack
 video out jack
 central FOV gain optimization
 tripod mountable

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