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Capital Services System

Border Patrol Handheld Thermal Viewer

Features & Benefits

- High sensitivity, long range detection.
- Compact, light weight and low power dissipation.
- High reliability, long life and easy maintenance.
- Powerful function and good extensibility.
- Standard interface ensures easy integration and continuation.



Both visual image and infrared image availability enabled by the built-in telescope of laser range finder and infrared camera. **Combining infrared camera, GPS, Laser range finder** with integrated visual telescope and electronic compass, the border patrol handheld infrared thermal viewer IR 513 enables target observation in sky, on land or sea in both days (visual light telescope) and nights (infrared camera), measurement of target distance, indication of target direction and location. The measuring results will be sent to command system via communication device (**IEEE1394 high rate interface optional** for real-time transfer of image to PC & **RS232 communication (RS485/RS422 optional)** to achieve camera control) by connecting it with performed interface. It is suitable both for movable and immovable use.

Manual adjustment of brightness & contrast ensures best image quality according to specific environment condition. **Automatic adjustment of brightness & contrast** improves image with best viewing effect for human eye. With **2X Electronic zoom, optional Multiple color display, Dual-channel composite video output**, IR 513 is ideal for police, suppressing smuggling, fire fighting, law enforcement and coastal surveillance.

Technical Specifications

Thermal Imager	
Detector Type:	Microbolometer UFPA, 384 X 288 pixels 35 μ m
Spectral Range:	8 – 14 μ m
Bad pixels:	< 1%
Field of View:	5.50° X 4.12°
NETD:	\leq 85 mk at 25° C
Electronic Zoom:	X2
Vehicle Recognition Range:	2 Km
Vehicle Detection Range:	4.5 Km
Human Recognition Range:	1 Km
Human Detection Range:	2.5 Km
Polarity:	White Heat/Black Heat
Operating Temperature Range:	-25° C ~ +55° C
Storage Temperature Range:	-40° C ~ +60° C
Communication:	RS 232
GPS	
Accuracy:	Single unit < 3m (2DRMS)
Cold Start:	< 60 Sec
Hot Start:	< 20 Sec
Re-acquisition time:	< 1 Sec
Operating Temperature Range:	-25° C ~ +55° C
Storage Temperature Range:	-40° C ~ +85° C
Laser Range Finder	
Laser ranging performance:	50~5000m
Ranging accuracy:	< 2.5m
Wavelength:	1.06 μ m
Beam disperse angle:	\leq 1.0 mrad
Repeat Frequency:	10 times/minute
Working voltage:	7~12V
Digital Compass	
Accuracy:	0.3°
Operating Temperature Range:	-25° C ~ +55° C
Storage Temperature Range:	-40° C ~ +60° C

info@csspakistan.com

Head Office

No.27, 1st Floor, AL-Baber Centre
 Markaz F-8, Islamabad, Pakistan
 Tel: +92 51 2855627, 2856534
 Fax: +92 51 2855629

Lahore Office

Mota Singh, 1 Km Off Bedian Rd
 Near Elite Force Training Centre
 Lahore Cantt. Pakistan
 Tel: +92 42 5031919

China Office

A 616 , Yingban Commercial Building
 129 Nan Xiao Jie, Shijia Zhuang
 Hebei, P.R. China
 Tel: + 86 13619985772