SENTINEL ODS

OPTICAL DETECTION SYSTEM

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The Sentinel ODS detects snipers and other forward observers before they fire a shot. While most sniper detection systems are acoustic and help operators respond to a threat after it has already inflicted damage, the Sentinel ODS functions on optical principles and can therefore pinpoint the location of a threat before it has a chance to act. This system is ideal for border and perimeter security as well as VIP protection details.

The Sentinel ODS detects lenses and reflectors in its line of site even if these objects are covered behind bushes, windows or windshields. The device can be handheld or mounted on a tripod and when an optical reflector of any kind is detected, its position is marked in field of view. For added situational awareness, an audio signal can also be set to automatically activate upon the detection of a threat. The Sentinel ODS can reliably detect snipers and other optical equipment in a variety of tactical situations.

Optical parameters:	
Objective lens focal distance, mm	6-130
CCD resolution, pixels	1920x1080
Video output refresh rate, Hz	50
Field of view, degrees	61.04° x 36.89° to 2.36° x 1.33°
Magnification	continuous zoom from 1x to 30x
Display resolution, pixels	1024 x 768 OLED
Diopter adjustment of the eyepiece	± 4
Infrared sensors	
Detector type	Vox
Resolution (pixels)	640 x 512
Spectrum (µm)	8-14
Pitch size (µm)	12
NETD (mK) @F1.0	<40
Frequency (Hz)	50
Objective Focal Length (mm)	50 @F1.0
Field of View (°)	8.8 x 7.0
Non-uniformity correction	Auto
Detection/Recognition of tank target (km)	6.3/1.6
Detection/ Recognition of human target (km)	2.3/0.6
Zoom	1-4x
Detection parameters:	
Maximum detection range, 7x50 weapon sight (m)	2,500
Minimum detection distance of the optical objects, m	100
Angular size of the detection zone, degrees	0.8° x 72° (Horizontal field of view)
Maximum horizontal scanning speed, degrees/sec	30 (with optional PTZ)

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LRF	
Laser type	Solid Sate, Class I
Laser wavelength (μm)	1,535
Detection range (m)	20 - 10,000
Ranging accuracy (m)	±2
Laser type	Solid Sate, Class I
Laser Emitter	
Wavelength	808nm+-5nm
Light angle	0.8 degree to 72 degree
Laser power	>=10W
Laser Dazzler	
Wavelength	515 to 520nm
Power	>=960KW
Spot size	Min 20cm; Max 12m
Compass:	
Measured azimuth range	360°
Accuracy	±1.0° RMS at level ±1.3° RMS inclined (±30°)
Inclinometer:	
Measured elevation range	±80°
Accuracy	±1.0° RMS (within ±80°)
Capabilities	
Target global position calculation	Yes
Global position sensor	GNSS
Electrical parameters:	
Voltage range	6-12VDC
External power supply voltage	6-12VDC
Power supply	4x 18650
Battery life continuous operation, min, hours	4
Video output, type	PAL
Environmental parameters:	
Tripod mount	Present, ¼"
Dimensions, mm	204x160x83
Weight, kg	2.3
Operating temperature range (°C)	-40 to +60
Storage temperature range (°C)	-40 to +65
Relative humidity	≤ 98 % under + 25°
Waterproofing	IP67

DELIVERY SET

Supplied with the following standard and optional accessories:

- Soft carrying case
- Wrist strap
- Batteries (4 x 18650)
- Lens cleaning cloth
- Li-Ion battery charge
- Eyepiece covers
- Multi-use cable
- Operation manual

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