



HENSOLDT Bushbaby 100

Electro-optical systems

The Bushbaby 100 is a surveillance system for armoured vehicles, unmanned ground vehicles, patrol vehicles and stationary applications.

It is a rugged electro-optical system for day and night observation applications..

The onboard real-time video processor provides image enhancement of all sensors, image fusion of daylight and infrared cameras into a single video stream, image stabilization, scene steering and target tracking. Compact design and fully digital interface allows for a cost-effective integration for many platforms.

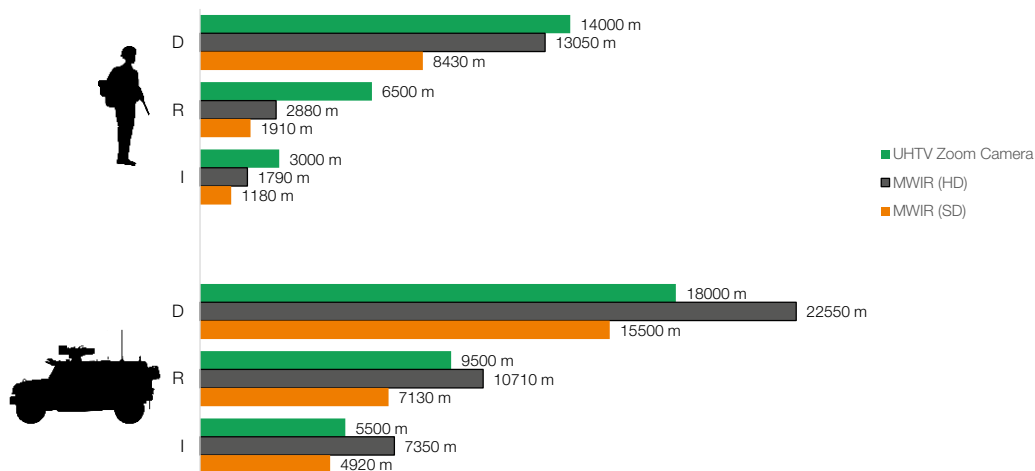
Key Features

- Gyrostabilized 2-axis system
- Image stabilization
- Target/position tracking
- Image processing and enhancement
- Target geolocation
- AI features ready



Bushbaby 100

Platforms	Applications
Armoured vehicles	Situational awareness
Light combat vehicles	Force protection
Unmanned ground vehicles	Targeting and reconnaissance
Stationary surveillance masts and structures	Forward observer
General characteristics of stabilized assembly	
Azimuth range	360° continuous rotation
Elevation range	-45° to +95°
Stabilization	≤ 500 μrad
Slew rate	90°/sec
Type	2-axis stabilized
Vibration damping	Internal 6-DOF vibration damping
Thermal imager	
Spectral response	3 – 5 μm (MWIR)
Sensor resolution	640 × 512 pixels (1280 × 960 optional)
FOV	28°-1.9° HFOV 14X optical zoom, 4X digital zoom (HD Option 25° - 2.4° 10X optical zoom)
UHDTV zoom camera	
Spectral response	430 nm – 680 nm/680 nm – 920 nm (NIR)
Sensor	2160p/60 (QFHD)
FOV	58° to 2.3° (optical zoom in UHD)/(0.3° with digital zoom (480p)
Features	Visibility enhancer, defog, noise reduction, image stabilization, auto ICR, white balance modes
Laser range finder	
Wavelength	1535 nm
Safety class	Class 1 (eye safety per IEC 60825-1)
Range	10 m - 15 000 m (maximum range for NATO target of 2.3 m × 2.3 m is 5 300 m)
Range accuracy (1σ)	≤ 1 m
Environmental conditions (designed for)	
Environmental	Sensor module sealed to IP67 (nitrogen purged)/MIL-STD-810H
Electrical	MIL-STD-1275/DEF-STAN 61-5
Operating temperature	- 25° to +55°C
Mechanical protection	Aluminium housing - collision with a branch at 20km/h



Typical DRI Values

Who we are

HENSOLDT South Africa is a pioneer of technology and innovation in defence and security electronics. The company offers a comprehensive range of products, systems and services across defence and civil markets, from electronic warfare and optronics, spectrum monitoring and security solutions, to radar, IFF and datalinks.



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Detect and Protect.

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