

# 8BEODP

## ELECTRO-OPTICAL DRONE PAYLOAD



Full HD  
1080

Fully customizable configuration upon request

The 8BEODP, designed and developed by EIGHT BELLS is an advanced electro-optical system capturing the infrared thermal radiation emitted by objects and humans. It requires no ambient light and operates during day and night under any weather conditions. The 8BEODP supports integrated image processing algorithms and is an ideal solution for UAV-enabled applications.

### FEATURES

- Tracking Capabilities
- Low profile, for reduced drag
- Turnkey solution for small UAVs
- Image and Video recording

10x Zoom Full HD  
color Camera



2-Axis  
stabilization

User  
defined color

Thermal Camera

### APPLICATIONS

Reconnaissance,  
border patrol, migration  
flows control



SAR (Search & Rescue)  
applications in sea



Critical infrastructure  
Protection (ports,  
airports, factories,  
photovoltaic / wind  
farms)



Fire fighters forest  
patrol / fire detection  
in warehouses



## DIMENSIONS - WEIGHT

Weight: 800 gr

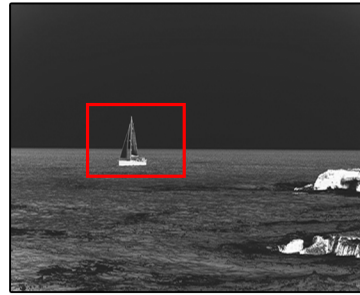


## SPECIFICATIONS\*

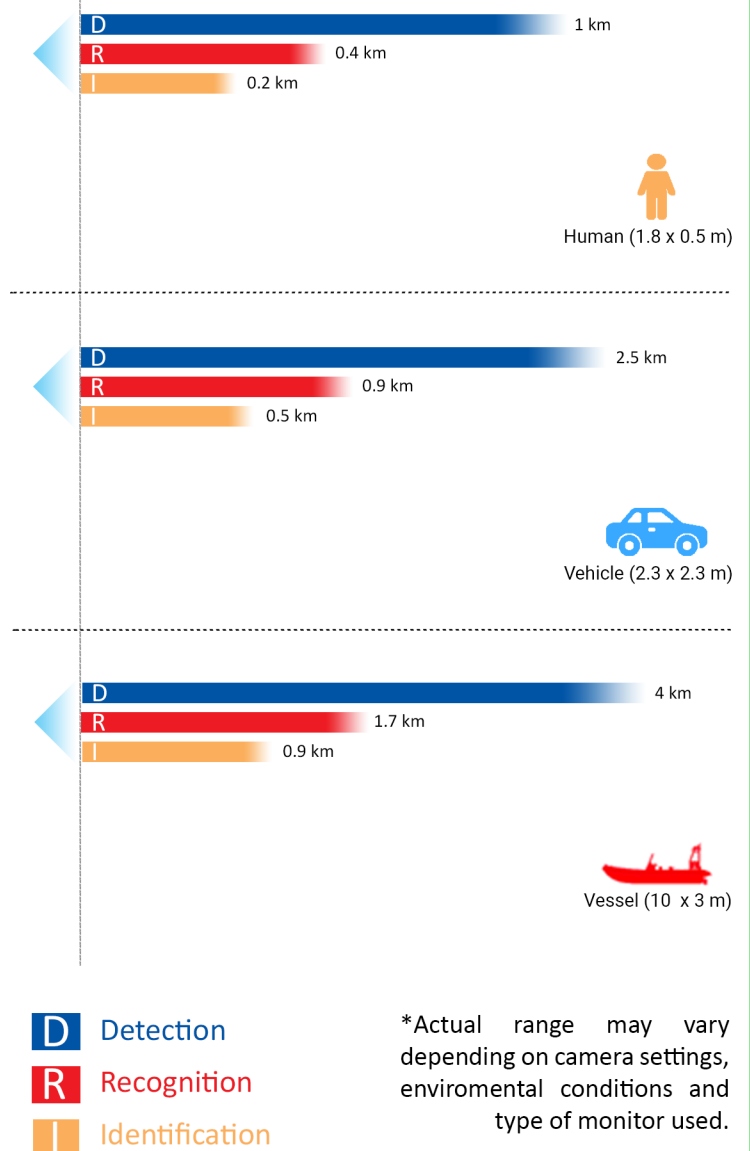
SYSTEM	
Video Output	Digital / Analog (option upon request)
Humidity and dust protection level	IP66
Material	Fiber Reinforced Plastic
Standard	MLT-STD-810G
Operation temperature	-30 °C to +70 °C
Input voltage	24VDC
Communication protocol	RS232/ RS485/RS422 (upon request any other serial protocol)
THERMAL CAMERA	
Sensor type	Uncooled
Spectral response	8-12μm
Sensor resolution	640x480, 17μm (12μm available, upon request)
NETD	50 mK
Refresh rate	30 Hz (60 Hz upon request)
Lens	25mm
Digital Zoom	2x, 4x
Field Of View (FOV)	24° x18°
Polarity	Black/White Hot
Gain Control	Manual/Auto
DAY CAMERA	
Sensor	1080P@60fps/ 30fps
Lens	5.1mm – 51mm
Optical zoom	10x
Digital Zoom	32x
Field Of View (FOV)	6.7° – 68°
PAN - TILT	
Azimuth	-90° / +40°
Elevation	-90° / +40°
Stabilization	2 axis (optional 3 axis)

\* Fully customizable configuration upon request

## AUTO TRACKING SYSTEM



## RANGE PERFORMANCE



EIGHT BELLS

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