

# 8BUGM

## UAV GIMBAL MODULAR THERMAL CAMERA



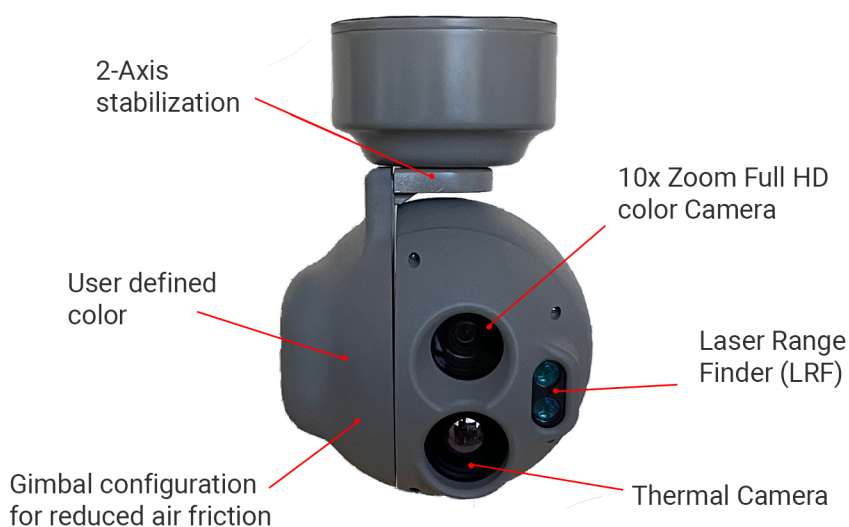
Full HD  
1080

Fully customizable configuration upon request

The 8BUGM, designed and developed by EIGHT BELLS is an advanced gimbal-mounted thermal camera 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 8BUGM supports video analytics and is an ideal solution for UAV-enabled applications.

### FEATURES

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



### 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: 2.3 Kg



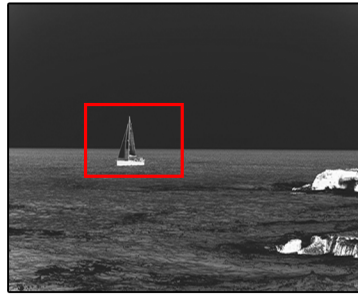
(mm)

## SPECIFICATIONS\*

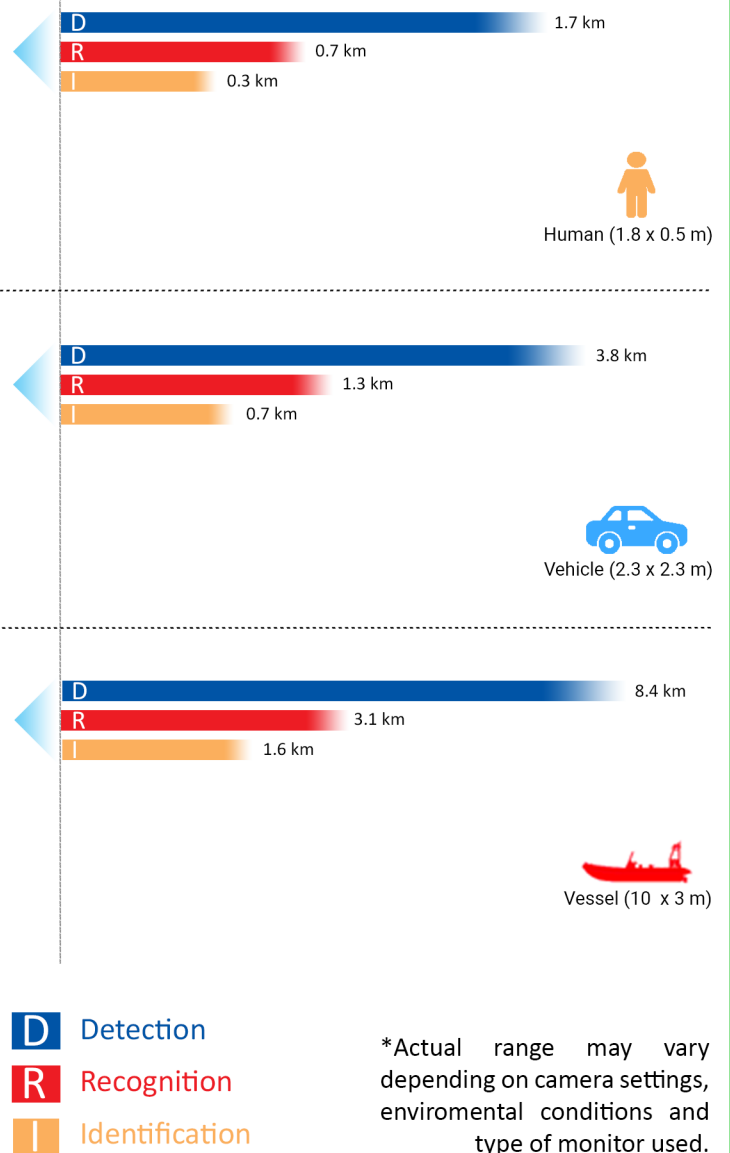
SYSTEM	
Video Output	Digital / Analog (option upon request)
Humidity and dust protection level	IP66
Material	Fiber Reinforced Plastic
Standard	MLT-STD-810G
Operation temperature	-30 °C – +70 °C
Input voltage	24VDC
Communication protocol	RS232/ RS485/RS422 (upon request any other serial protocol)
THERMAL 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	35mm
Digital Zoom	2x, 4x
Field Of View (FOV)	18° x 13°
DAY CAMERA (Optional)	
Sensor	Full HD 1920x1080
Lens	5.1mm – 51mm
Optical zoom	10x
Field Of View (FOV)	6.7° – 68°
GIMBAL (2 axis stabilization)	
Azimuth	360° continuous
Elevation	-90° / +40°
LASER RANGE FINDER (Optional)	
Wavelength	1550nm (eyesafe)
Max Range	4.5Km (2.2 Km NATO target)
Accuracy	0.01 – 0.5m

\* Fully customizable configuration upon request

## AUTO TRACKING SYSTEM



## RANGE PERFORMANCE



EIGHT BELLS

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