

# VooDoo-B

Medium/Long Range Thermal Binocular

**PIXELS**  
O N T A R G E T

**VooDoo-B** is the next generation of thermal imaging systems. We've kept what you require, improved what you asked for, and added what you've always desired. Feature rich, yet easy to use — all under 48 oz.

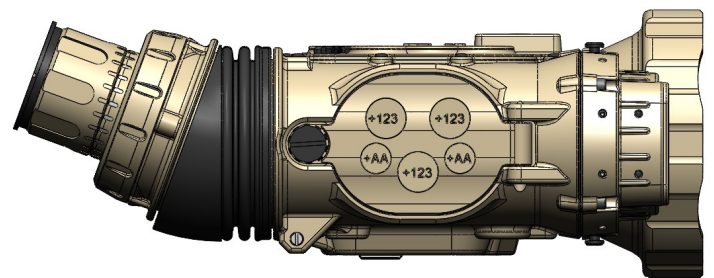
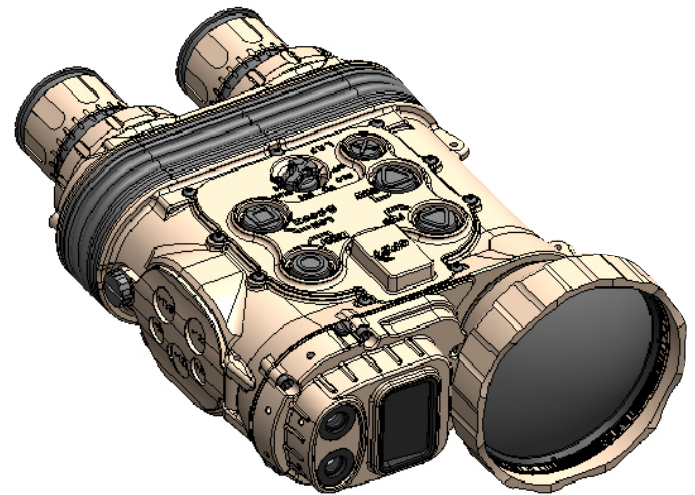
**VooDoo-B** is a multi-mission uncooled thermal imaging binocular designed for Long Range Observation, Identification, and Target Location, and includes an integrated Laser Range Finder, Global Positioning System, Digital Magnetic Compass, and Laser Pointers to provide location information for targets and friendly personnel.

**VooDoo-B** provides the sharpest thermal images on the market, utilizing a shutter-less 12-micron, 640 x 480 PIXELS core powered by a BAE Systems focal plane array and advanced thermal imager processor.

**VooDoo-B** is mission-ready and includes Interchangeable Lenses – 75mm Standard FOV and Optional Hot-Swappable 29mm Wide FOV. The system is ruggedized for all missions and tested to MIL-STD 810G.

**VooDoo-B** has advanced hardware features that enable integration of Artificial Intelligence and Machine Learning Capabilities unique to any system of its size, weight and power. When connected to a VooDoo-S, VooDoo-M or other Pixels On Target Weapon Sight, VooDoo-B provides a Disturbed Reticle feature for target engagement.

**VooDoo-B** communications include M-Code Support (Via External Pixels on Target Module), Multiple scenarios for computing Operator Location, Target Location in A2/AD environments



## **FLEX VIEW**

*VooDoo-B provides operators with maximum flexibility and ergonomic adjustment of the system's eyepieces, with +30 /-10 degree articulation and independent diopter adjustment for fine focus. Ideal for operation while wearing helmets, eye protection, and CBRNE masks in prone and upright positions. Patent pending.*

**SOFTWARE DEFINED • HARDWARE ENABLED  
ACCURACY • PRECISION • INNOVATION**

# VooDoo-B

## TECHNICAL CHARACTERISTICS

### THERMAL IMAGER

SENSOR	640 X 480 MICRO BOLOMETER
SPECTRAL RANGE	7.5 – 13.5 $\mu$ m (LWIR)
PITCH	12 MICRON
PIXEL FORMAT	640 x 480 Array
SENSITIVITY (NE $\delta$ T)	<50 mK
LENS	75mm (Standard FOV); 29mm (Wide FOV) optional
FIELD OF VIEW	7.5° diagonal (Standard); 19° diagonal (Wide FOV)
DIGITAL ZOOM	1X / 2X / 4X / 8X
NUC	Shutterless, Manual Calibration
FOCUS	Manual; 5m to Infinity
RETICLE TYPES	Standard or Custom
POLARITY MODES	White Hot/Black Hot/White Edge Detect/Black Edge Detect
MOUNT	¼"–20 Standard Tripod Mount

### DISPLAY

OLED TYPE	Dual
RESOLUTION	640 X 480
REFRESH RATE	60 Hz
EYE RELIEF	23mm
ADJUSTABLE DIOPTER	+/- 2

### INTERFACE

VIDEO OUT	VBS: 1.0 Vp-p, RS-170
SIGNAL SYSTEM	NTSC/PAL
CONTROL	Keypad and/or Optional Remote Pad
IMAGE STORAGE	100 Snapshots (internal memory)
DATA	Bluetooth, ISW, USB, UART

### TARGET LOCATION

LASER RANGE FINDER	Yes
GNNS/INS	Yes, 2.5m Accuracy. Commercial
D.M.C.	Yes, User Calibrated. Static & Dynamic
M-CODE	Yes. External Module Accuracy < 0.25
MGRS (LAT & LONG)	Yes. Own Location & Target Location with Unique Identifiers and Toggle Capability

### VOODOO-B VARIATIONS

VooDoo-B Commercial Variant (65-00300) Tan
VooDoo-B Commercial Variant (65-00301) Black
VooDoo-B MIL Variant (65-00390) Tan
VooDoo-B MIL Variant (65-00301) Black

### RANGE TO TARGET



IDENTIFICATION 840 meters

RECOGNITION 1800 meters

DETECTION 2950 meters

### LASER RANGE FINDER

TYPE	Diode Laser
RANGE	Typical: 2500m / Max 5000m
NATO STANDARD TARGET	> 3,000 m 30% 10km Visibility
DIVERGENCE	~ 0.8 mrad
ACCURACY	< 0.5 m
MEASURING RATE	1 Hz
MEASUREMENT RESOLUTION	0.1 m
TARGET DISCRIMINATION	Typical: 25m
MULTIPLE TARGET LOCATION	Yes
WAVELENGTH	1.55 $\mu$ m
CLASSIFICATION	Eye Safe Class 1

### LASER POINTERS

WAVELENGTH	NIR (850nm); VIS Green (520nm)
POWER LEVEL	Training: .7mW; Tactical 35mW
CLASS	Training: Class 1 Eye Safe; Tactical: Class 3B
NOHD	NIR Training: 0 m; NIR Tactical: 394m (unaided) VIS Tactical: 325m (unaided)
DIVERGENCE	0.125 - .75 mrad @ 1/e
DIFFUSE NOHD	NIR: 0m; VIS: 0m

**PIXELS**  
O N T A R G E T

For more information contact your designated distributor:  
Pixels on Target, LLC  
1351 Sawgrass Corporate Parkway  
Suite #104  
Sunrise, FL 33323  
W: www.pixelsontarget.com  
E: info@pixelsontarget.com  
P: +1.305.614.0890

This product is export controlled. Export of this product is regulated by the U.S. Department of State in accordance with the guidance of "International Traffic in Arms Regulation (ITAR)" per Title 22, Code of Federal Regulations, Parts 120-130 Disclaimer and copyright. This document gives only a general description of the product(s) and service(s) and, except where expressly provided otherwise, shall not form any part of any contract. Changes may be made in the products or the conditions of supply.

Copyright Pixels on Target

Document Control # Pixels-VDBUS-08