



## Liteye HMTI-HMD

### Head Mounted Thermal Imager



The Liteye HMTI-HMD is a RUGGED, Head Mounted Thermal Imager.

The Liteye HMTI-HMD utilizes a VOx uncooled 17 $\mu$ m pitch 320 x 240 microbolometer and the LE 720 HMD. The system is mounted via the rails on Helmets such as the Ops Core FAST Helment. Custom Mounting is Available.

The system is full self contained with 6 to 8 hours operation on two CR123 batteries. A hands Free Thermal System for critical missions.

#### Thermal Imaging Performance

Sensor	Uncooled VOx microbolometer	
Spectral Response	8 to 14 $\mu$ m	
Array Format	320 x 240 17 $\mu$ m	
Thermal Sensitivity	NETD typically 50mK	
Image Processing	AGC, ICE	

#### Thermal Lens

FoV	40° (H) x 30° (V)	16° (H) x 12° (V)
Focal Length	7.5mm F/1.2	19mm F/1.1

#### HMD Performance

Display	Uncooled VOx microbolometer	
Resolution	8 to 14 $\mu$ m	
Luminance	320 x 240 17 $\mu$ m	
Contrast	NETD typically 50mK	
Eye Relief	Non Pupil Froming	
Exit Pupil	23 mm	
FOV	28° PAL (800x600) 24° NTSC (640x480)	

#### System Specifications

Power	<1watt Nominal	
Input Voltage	6 Volts DC	
Mounting	Rail	
Environmental	Operating temperature range -40°C to +65°C	

Specifications subject to change without notice.



## HMTI/HMD System Component Breakdown

HMTI 320 Thermal Camera  
40 Degree Athermal Lens  
AGC and ICE Video Enhancement



Battery Pack  
2 CR123 Batteries  
6-8 Hours Battery Life  
Attaches to Rear of Helmet

LE-720 HMD  
Advances Optics  
Large Eye Relief  
Large Exit Pupil  
OLED Display

HMTI Interface Buttons  
White Hot/Black Hot  
Zoom 1x2x3x4x  
NUC



Helmet Mount  
4 Axis Adjustment  
Flip Up for Storage

HMD User Interface Buttons  
Brightness  
Contrast