

ClipIRXD ARTIM

Fused Thermal and Night Vision with Augmented Reality (AR)



ClipIRXD-E



ClipIRXD-B

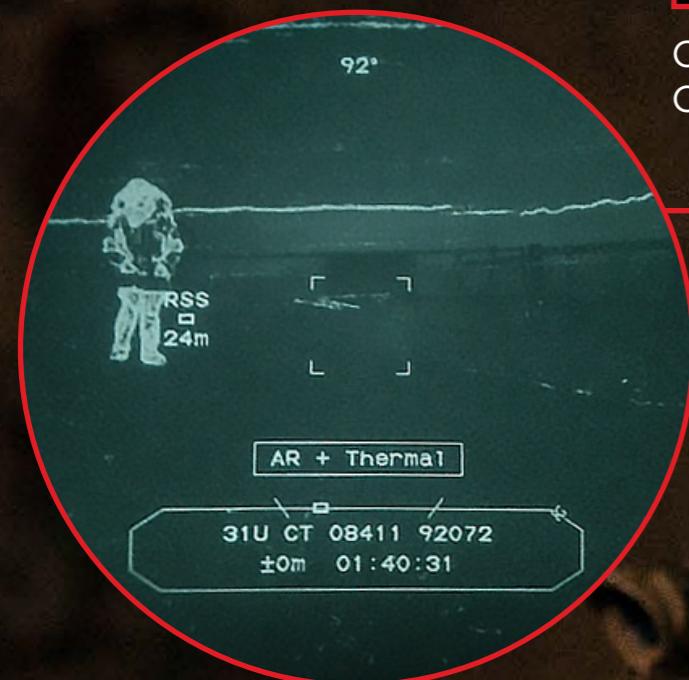


ARTIM



ARTIM-MINI

Clip-on thermal fusion with AR head-up display for night vision devices delivering unrivalled night-time situational awareness



Fused thermal imaging with AR data overlay displaying navigation, Blue Force Tracking, target markers and other Position Location Information (PLI)



ClipIR XD Thermal Clip-on System



ARTIM-MINI

ARTIM

ARTIM / ARTIM-MINI intelligent battery pack mounts on the back of the helmet, connecting to ClipIR XD to deliver AR and data from ATAK and other Battle Management Systems



ATAK on Android End User Device (EUD) with Thermoteknix ARTIM plug-in

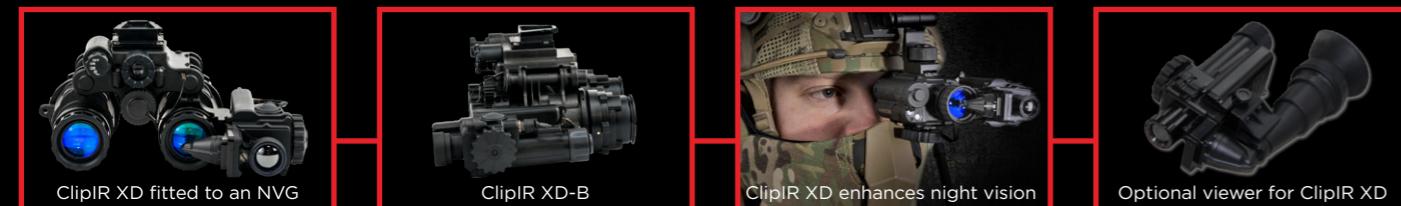
ARTIM integrates with ATAK and a range of Battle Management Systems (BMS) to offer real-time data sharing and instant situational awareness for team collaboration

ClipIR XD



Fused Thermal & Night Vision

- 40° Field of View
- 640 x 480 LWIR
- Man detection of 580m
- Shutterless XTi technology, silent with no NUC required
- Digital Magnetic Compass
- Instant turn on <1 second time-to-image
- Composite Video Input
- External Power
- Compatible with ARTIM intelligent battery pack for AR functionality
- Compatible with most NVGs



Quick start up and easy-to-use functionality

Start-up time to image is less than 1 second ensuring rapid deployment. All ClipIR XD functions are controlled using its unique, multifunction scroll wheel. Capable of operation when mounted on either side of the night vision goggle, and operated in all environments wearing gloves, the ClipIR XD is intuitive with minimum training burden.

Multiple thermal fusion modes are available for optimum mission profiles including: White Hot, Black Hot, Outline, Contour and Pulse modes.

ClipIR XD-B can be powered internally using one single AA battery to provide over 3 hours of use. External power can be provided by a helmet mounted battery pack to enable over 24 hours of continuous use. ClipIR XD-E can be powered using a helmet mounted battery pack.

ClipIR XD is compatible with Thermoteknix Augmented Reality Tactical Interface Module (ARTIM) acting as an intelligent battery pack mounted on the rear of the helmet. ARTIM integrates with existing digital soldier systems and secure communication networks to display real-time data sharing and instant situational awareness through the ClipIR XD for collaboration across teams and agencies.



View with NVG only



View with NVG and ClipIR XD

ARTIM

Key features and benefits

- ARTIM is an intelligent battery pack for ClipIR XD thermal clip-on systems
- ARTIM features a Thermoteknix proprietary Augmented Reality (AR) processor and embedded smart computer with GPS providing ultra low latency 60Hz update rate with zero lag
- ARTIM mounts to the rear of the helmet and tracks the user location and direction of sight, delivering a real-time AR overlay to the user
- Real-time routes, waypoints or team members displayed (blue force tracking)



ARTIM-MINI

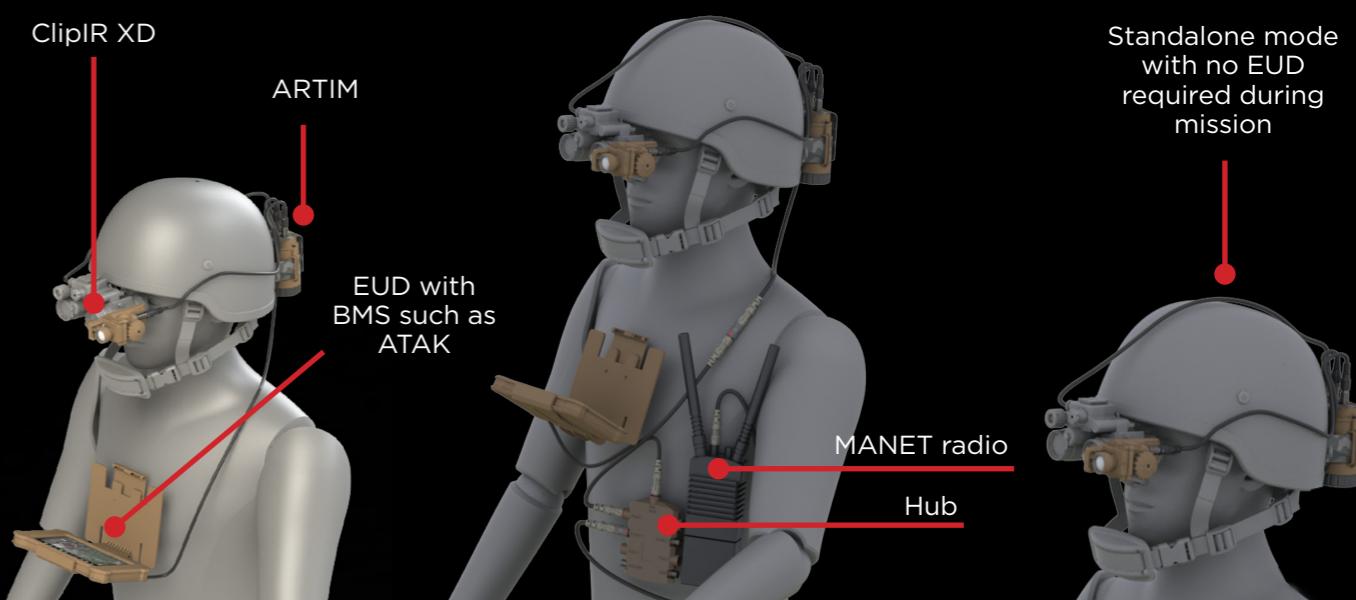
4x AA batteries providing up to 12 hours of battery life



ARTIM

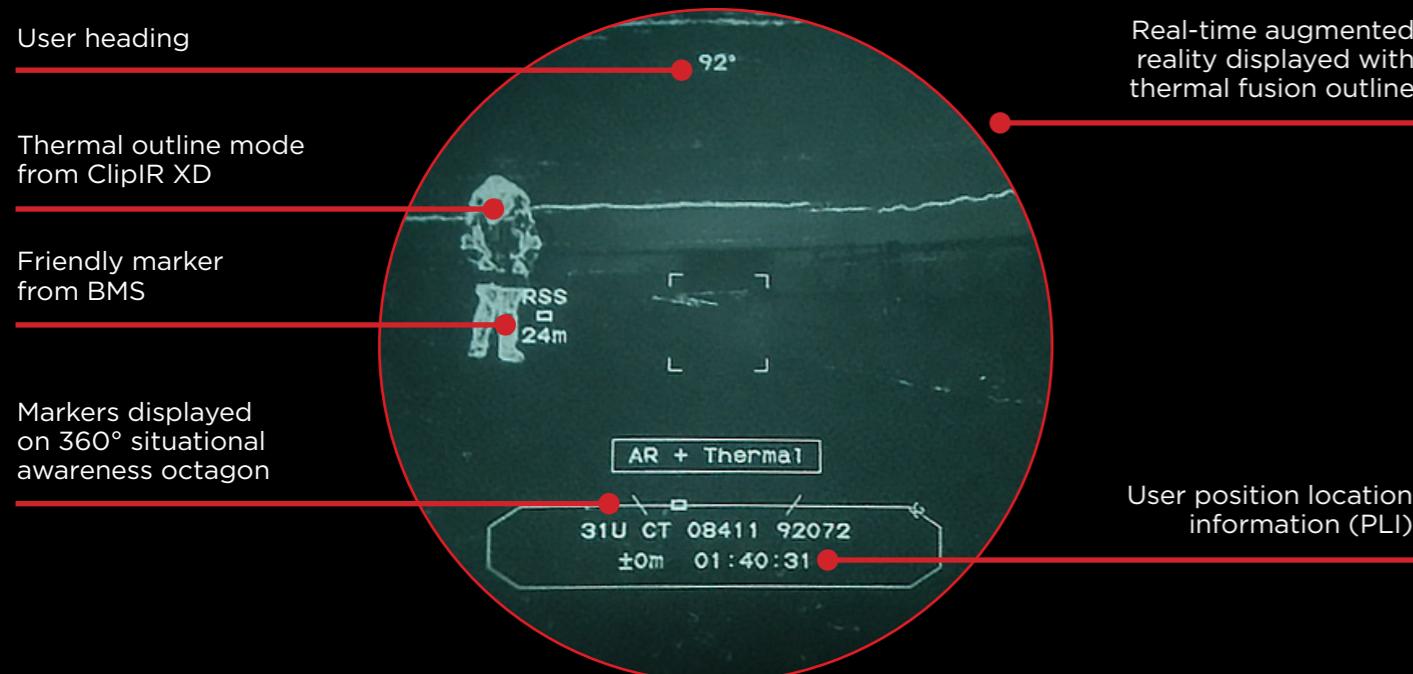
8x AA batteries providing up to 24 hours of battery life

Flexible configurations with or without a network



ARTIM

AR with thermal display



Adjustable filters to reduce cognitive overload

- AR filters enable the user to:
 - Select routes/markers
 - Limit distances of markers displayed
 - Limit level of AR displayed
 - Filter by teams
- User-selectable display modes include thermal only, AR only, or thermal and AR being displayed at the same time



Thermoteknix intuitive ATAK plug-in



Configurable either on EUD or using scroll wheel on ClipIR XD

ClipIR XD

Technical Data

Model	ClipIR XD-E	ClipIR XD-B
Power supply	External power	1 xAA battery or external power
Size (L x H x D)	95 x 42 x 75mm	108 x 42 x 81mm
Weight	<110g	<150g (inc. battery)
Operating time	N/A	>3 Hours (1x AA battery)
Detector	640 x 480 LWIR	
Frame rate	60Hz	40°
FOV		Yes
Video input		<1 second
Start-up time-to-image		Compass
Man detection		Internal
Environmental		580m
Operating temperature		MIL-STD-810G
		-32°C to +55°C



ARTIM

Technical Data

Model	ARTIM	ARTIM-MINI
Battery	8x AA in two 4-way battery carousels	4x AA
Size (L x H x W)	134 x 102 x 47mm	112 x 100 x 30mm
Weight	<320g, ex. cable and batteries	<200g, ex. cable and batteries (additional 100g counterweight optional)
Operating time (thermal only)	>24 hours	>12 hours
Operating time (thermal and AR)	>11 hours	>5.5 hours
Power input	5V	
NVG power output	3V (factory configurable)	
Video input/output	Yes, through ATAK / BMS	
Compass	Internal	
GPS	Internal (BeiDou, Galileo, GLONASS, GPS / QZSS) or external (user selectable)	
AR update rate	60Hz	
Interface	USB 2.0	
Supported software	ATAK / various Battle Management Systems (BMS)	
Environmental	MIL-STD-810G	
Operating temperature	-32°C to +55°C	



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 **Thermoteknix**