

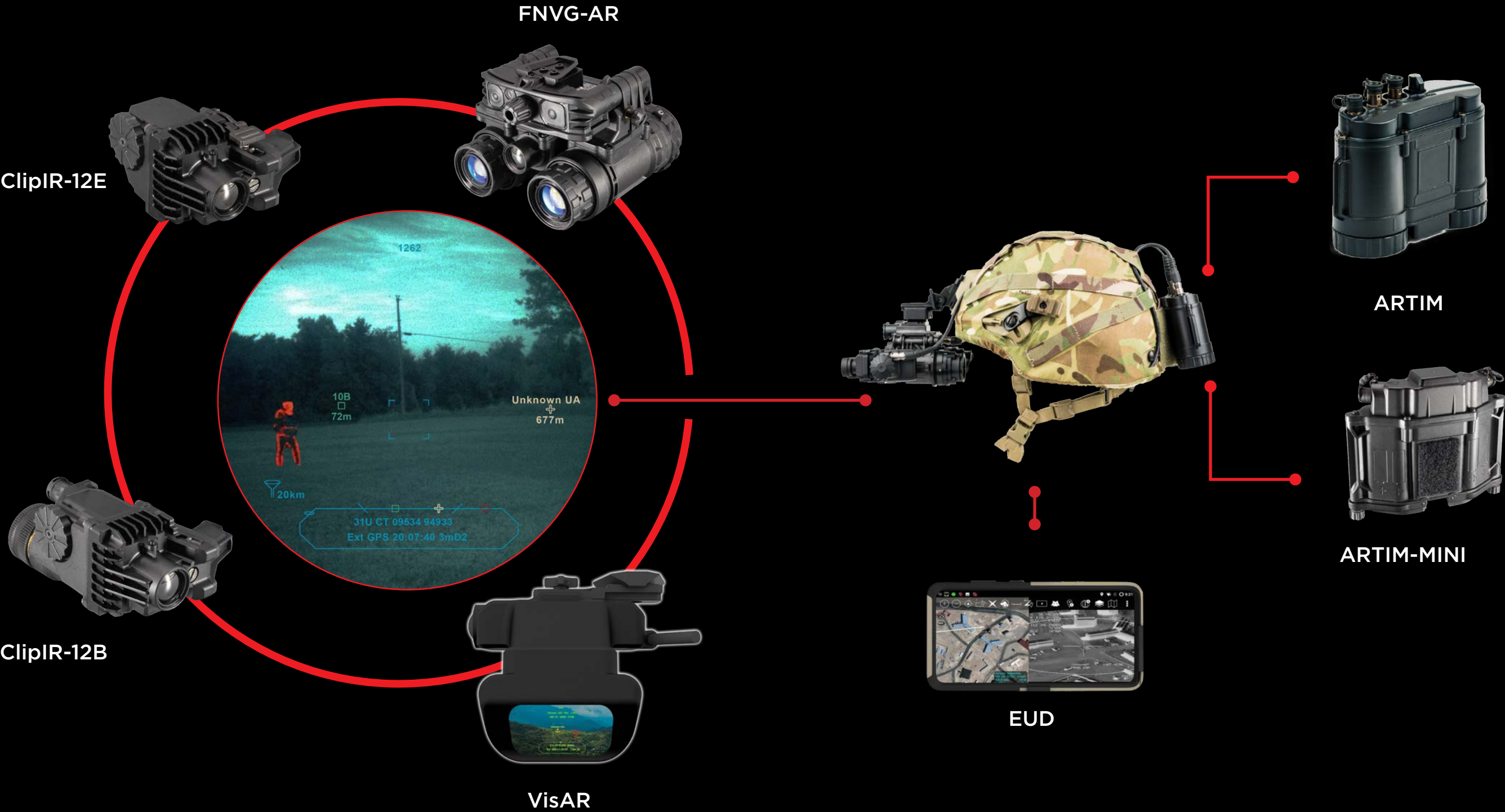


OUR VISION. YOUR REALITY.

Next Generation Augmented Reality Systems

 **Thermoteknix**

Next Generation Augmented Reality Systems



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FNVG-AR



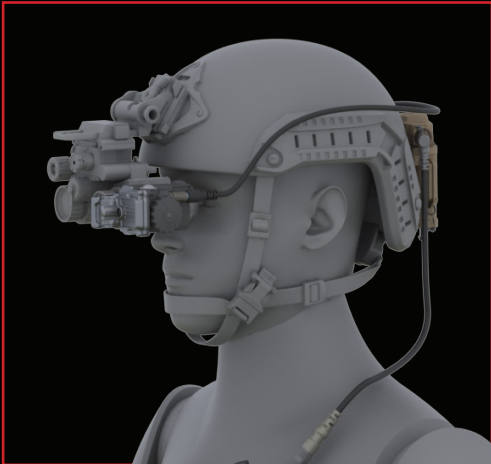
Fused night vision
binocular with AR

ClipIR-12



Thermal imaging clip-on
with AR for existing NVGs

ClipAR



AR HUD clip-on for
existing NVGs

VisAR



Daytime AR HUD

ARTIM



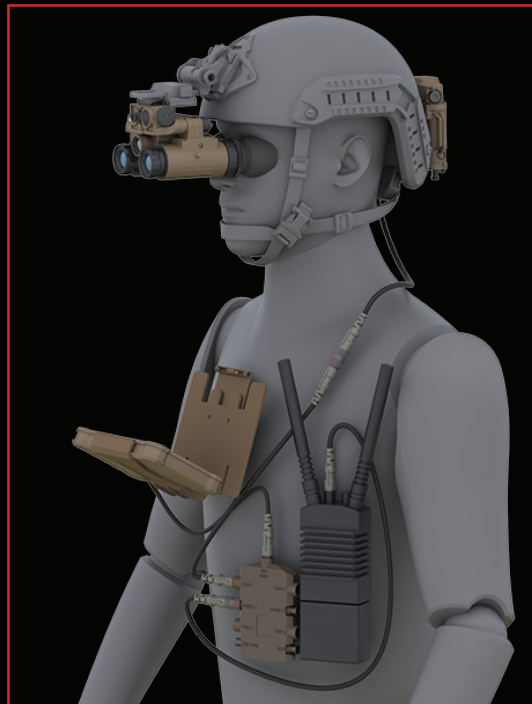
AR-generating intelligent
battery module with 8x AA
batteries

ARTIM-MINI



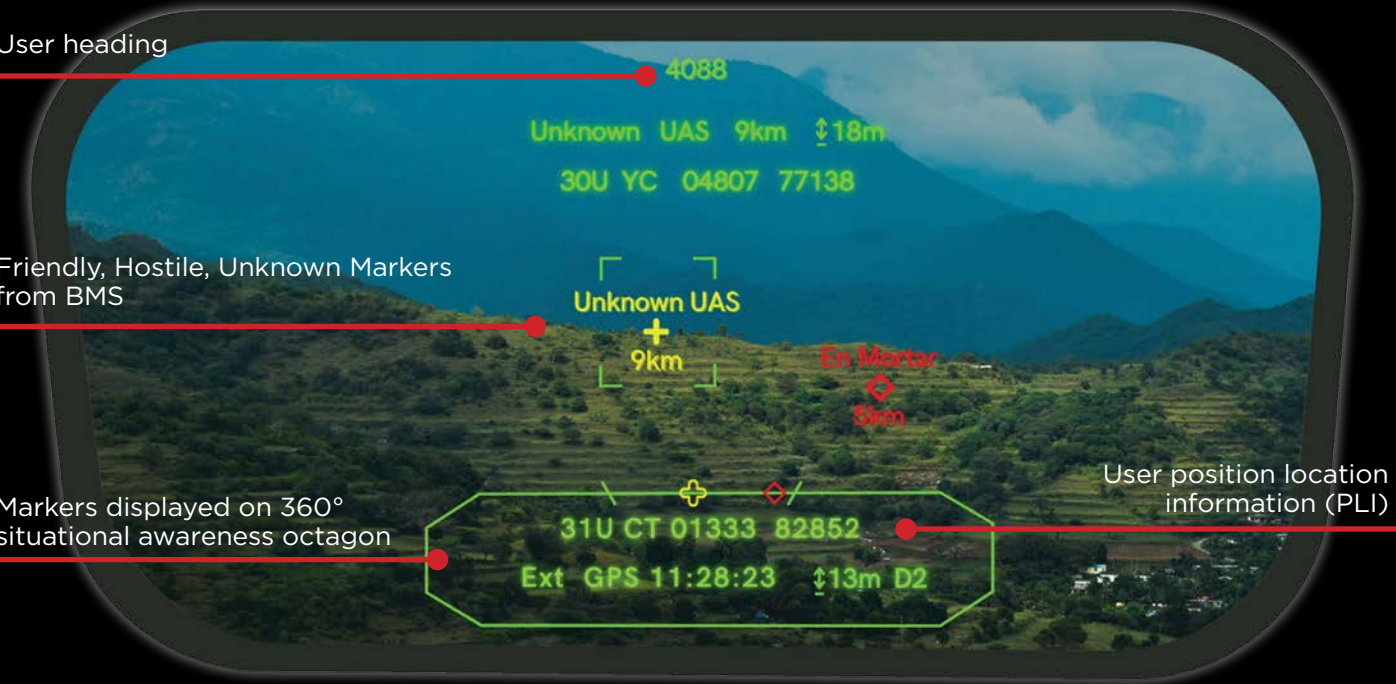
AR-generating intelligent
battery module with 4x AA
batteries

Flexible configurations with or without a network



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Day Operations



Night Operations



Augmented Reality key features

- 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)
- Integrates with ATAK and other Battle Management Systems (BMS)
- Flexible configuration options; with or without a network connection
- Internal data storage enables operation with or without connection to End User Device (EUD)
- Displays live BMS video feed from connected sensors, such as a UAV or target location device, either as Picture-in-Picture or full screen formats

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




Configurable either on EUD or using scroll wheel

Thermoteknix intuitive ATAK plug-in

ARTIM

		
Model	ARTIM	ARTIM-MINI
Battery	4x or 8x AA Lithium batteries	4x AA Lithium batteries
Size (L x H x W)	134 x 102 x 47mm (47mm max. projection from helmet)	121 x 102 x 39mm (33mm max. projection from helmet)
Weight	<320g (exc. batteries)	<200g (exc. batteries, additional 100g counterweight optional)
Operating time (thermal only)	>24 hours	>10 hours
Operating time (thermal and AR)	>11 hours	>5.5 hours
Power input	4.5V to 5.5V	
Video input/output	Yes, through ATAK / BMS	
Compass	Internal	
GPS	Internal (ARTIM) or external (EUD, radio or DAGR), user selectable	
Internal GPS	BeiDou, Galileo, GLONASS, GPS / QZSS, user selectable	
AR update rate	60Hz	
AR filters	4x user selectable AR filters displaying different levels of information	
3D AR display	Information displayed in 3D incorporating real-world elevation	
AR without BMS	Capable of displaying AR information without connection to BMS	
Interface	USB	
Supported software	ATAK / various Battle Management Systems (BMS)	


FNVG-AR

	
Image Intensifier	
Tube diameter	16mm
Field of View (FOV)	40°
Figure of Merit (FOM)	2200 typical (other options available)
Tube phosphor	Onyx (white)
Thermal Imaging	
Resolution	640x480
Pixel pitch	12µm
Diagonal Field of View (FOV)	37°
Frame rate	60Hz
Non-uniformity correction (NUC)	Shutterless with no calibration ever required using patented XTi
Operating modes	Image intensifier only, image intensifier fused with thermal and/or AR
Fusion modes	Outline, black hot, white hot, red hot
Display	
Thermal/AR overlay colour	Full colour
Display side	Right eye
System	
Weight	<550g (excluding helmet mount)
Size (L x H x D)	103 x 116 x 89mm

ClipIR-12

		
Model	ClipIR-12B	ClipIR-12E
Power supply	1x CR123 battery, 1x AA battery, or external power	External power
Size (L x H x D)	88 x 43 x 62mm	56 x 37 x 62mm
Weight (exc. bracket & lens cap)	<90g (exc. battery)	<75g
Operating time (IR only)	>3.5 hours - Internal (1x CR123)	N/A
Non-uniformity correction (NUC)	Shutterless with no calibration ever required using patented XTi	
Detector	LWIR, 12µm, 640x480	
Latency	<5 ms	
Frame rate	60Hz	
Fusion models	Outline, black hot, white hot	
Field of View (FOV)	40° Horizontal	
Video input	Yes	
Start-up time-to-image	<1 second	
Compass	Internal	
Man detection	Approx. 450m	

VisAR

	
Power supply	Provided by ARTIM or ARTIM-MINI
Size (L x H x D)	110mm x 77mm x 97mm
Weight	<150g
Display type	OLED, full colour
Resolution	Full HD
Brightness	10,000 cm/m2
Frame rate	60Hz
Mount	Left or Right Eye (User Changeable)
AR display FOV	40°
Video input	Yes
Compass	Internal

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