

i-Aware[®] Tactical (TM-NVG)

i-Aware[®] is a family of advanced, multi-purpose night vision products connecting the battlefield soldier and enhancing situational awareness. As part of a complete soldier system or as a stand-alone night vision goggle, i-Aware[®] Tactical increases operational effectiveness in both nighttime and daytime missions, and provides the soldier with real-time video access to critical tactical intelligence.

- **Provides** enhanced tactical command and control for improved decision-making
- **Allows** tactical commanders real-time access to live soldier video feeds
- **Enables** viewing GPS, mapping, command text message and target information along with video input from weaponsights to “shoot around the corner”
- **Integrates** a camera system to capture and export live video from the user’s viewpoint



DESCRIPTION

i-Aware[®] Tactical offers integrated color video, color imagery display and camera capture export capabilities. The configuration delivers the **same night vision capability as the AN/PVS-14** in a monocular (with no increase in weight) or in a light-weight binocular with advanced technical features to improve soldier mobility.

BENEFITS

- **Input/output communications connector** for video import/export capability with integrated power connection
- **Integrated high resolution color display** to show soldier mobility information such as maps and target information
- **Generation 3 performance** offers optimum resolution, high gain and photoresponse to near infrared
- **Clip-on battery pack** uses universally available AA batteries for hand-held operation



Night Vision with i-Aware[®] Live Video Overlay



Traditional Night Vision View

i-Aware[®] Tactical (TM-NVG)

SPECIFICATIONS

Optical Properties

On-Axis Resolution (min) at optimum light level	1.3 cycles/milliradian
System Magnification	1X ± 0.03
System Distortion	Less than 3%
Range Focus	25 cm to infinity
Diopter Focus	+1 to -2 diopters

Field-of-View

Image Intensified Field-of-View	Greater than 40 degrees
Display Field-of-View	Greater than 33 degrees diagonal

Data Format

Display Format	800 x 600 pixels, SVGA
System Brightness Gain	Adjustable from 75 fL/fL to more than 5,000 fL/fL
Captured Video Resolution	960 x 680 pixels up to 10 frames per second
Video Input Formats	SVGA/VGA, RS-170, CVBS (NTSC or PAL) monochrome
Video Output Format	USB 2.0 Highspeed

Physical/Operating Properties

Exit Pupil and Eye Relief	14 mm on-axis exit pupil at 25 mm eye relief
Operating Temperature	-32°C to +49°C
Storage Temperature	-40°C to +70°C
Battery Life (Image Intensified Only)	Greater than 15 hours with 1 Lithium "AA" battery
Power Supply	Commercial "AA" battery, external +5V
System Weight	Less than 2.2 lbs (1000 gm) includes primary and secondary monocular, helmet mount, shroud with strap, and bridge with no battery

ACCESSORIES

- Helmet Mount
- Battery Pack
- Connector Cable (optional)

Night Vision & Communications Solutions
 7635 Plantation Road
 Roanoke, Virginia 24019-3222
 Attention: Business Development
 Telephone: 800-448-8678 or
 540-563-0371
 Fax: 540-362-4979
 E-mail: nv.orderadmin@exelisinco.com
www.exelisinco.com

EXELIS

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Specifications subject to change without notice.
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