



HARRIS F6045, GEN 3

TACTICAL MOBILITY NIGHT VISION GOGGLE-FUSION

I-AWARE® FAMILY F6045 SERIES

BENEFITS

Greater situational awareness due to improved threat detection under most battlefield environments

Expanded viewing capability from high-light conditions to total darkness and through battlefield obscurants. Increases capability for urban operations

Easy-to-use controls

Used with i-Aware Connect, which provides connectivity between the i-Aware family of goggles, data radios and smart phones

i-Aware Connect supports video display on the goggle as well as real time video

i-Aware® is a family of advanced, multi-purpose night vision products connecting the battlefield user with various applications, as well as command headquarters, to enhance situational awareness. Designed to increase operational effectiveness in both nighttime and daytime missions, i-Aware TM-NVG Fusion provides the commander and user with real-time video access to critical tactical intelligence. i-Aware TM-NVG Fusion is the first night vision goggle to provide fusion (via optical overlay) of I² and IR imagery as well as real-time video export.

DESCRIPTION

Combines the capabilities of the Enhanced Night Vision Goggle program and the TM-NVG into a single unified platform. Offers optical overlay fusion, color imagery display and camera capture export capabilities in a lightweight monocular or binocular configuration with advanced technical features to improve soldier mobility.

- Provides fusion (via optical overlay) of image intensified (I²) and infrared (IR) imagery as well as real-time video inputs
- Image importing and exporting capabilities:
 - Enables viewing GPS, mapping, command text message and target information along with thermal video input from weaponsights to “shoot around the corner”
 - Integrates a camera system to capture and export live (I²) video from the user’s viewpoint.
- Enables covert operation during nighttime operations with light-secure method of viewing key tactical information

ACCESSORIES

- Helmet Mount
- i-Aware® Connect
- Connector Cable

SPECIFICATIONS FOR: **HARRIS F6045, GEN 3, TACTICAL MOBILITY NIGHT VISION GOGGLE-FUSION,**

OPTICAL PROPERTIES

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

FIELD-OF-VIEW

Image Intensified Field-of-View	Greater than 40 degrees
Thermal Field-of-View (640 x 480 pixels)	Greater than or equal to 28 degrees diagonal
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
LWIR Sensor Resolution	320 x 240 pixels
Captured Video Resolution	640 x 480 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 High-speed

PHYSICAL/OPERATING PROPERTIES

Exit Pupil and Eye Relief	14 mm on-axis exit pupil at 25 mm eye relief
Operating Temperature	-32°C to +40°C full performance, +55°C with some degradation
Storage Temperature	-40°C to +70°C
Power Supply (Fusion Only)	Battery pack (four 1.5V AA Batteries) greater than 7.5 hours
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 3 lbs (1400 gm) includes primary and secondary monocular, i-Aware Connect without batteries, helmet mount, shroud with strap, and bridge without battery

About Harris Corporation

Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately \$8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

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INFORM AND PROTECT™