



# HARRIS F6045, GEN 3

## TACTICAL MOBILITY NIGHT VISION GOGGLE-FUSION

### i-AWARE® FAMILY F6045 SERIES

#### KEY 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

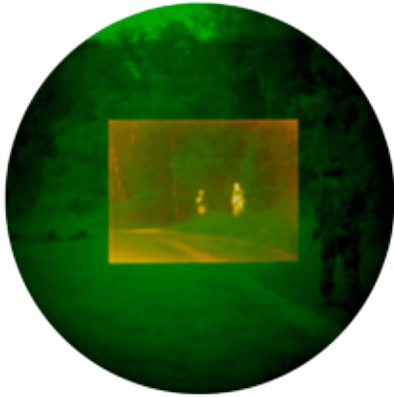
i-Aware Connect supports video display on the goggle as well as real-time video

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 Tactical Mobility Night Vision Goggle (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 image intensifier (I<sup>2</sup>) and IR imagery as well as real-time video export.

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 I<sup>2</sup> 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 weapon sights to “shoot around the corner”
  - Integrates a camera system to capture and export live I<sup>2</sup> video from the user’s viewpoint
- Enables covert operation during nighttime operations with light-secure method of viewing key tactical information

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



Fusion Thermal Imagery



Night Vision with i-Aware Live Video Overlay

**OPTICAL**

<b>On-Axis Resolution (min) at optimum light level</b>	1.3 cycles/milliradian
<b>System Magnification</b>	1X ± 0.03
<b>System Distortion</b>	Less than 3%
<b>Image Intensified Field-of-View</b>	Greater than 40 degrees
<b>Thermal Field-of-View (640 x 480 pixels)</b>	Greater than or equal to 28 degrees diagonal
<b>Display Field-of-View</b>	Greater than 33 degrees diagonal
<b>Display Format</b>	800 x 600 pixels, SVGA
<b>System Brightness Gain</b>	Adjustable from 75 fL/fL to more than 5,000 fL/fL
<b>LWIR Sensor Resolution</b>	320 x 240 pixels
<b>Captured Video Resolution</b>	640 x 480 pixels up to 10 frames per second
<b>Video Input Formats</b>	SVGA / VGA, RS-170, CVBS (NTSC or PAL) monochrome
<b>Video Output Format</b>	USB 2.0 High-speed

**PHYSICAL**

<b>Operating Temperature</b>	-25° F to 104° F (-32° C to +40° C) full performance, +131° F (+55° C) with some degradation
<b>Storage Temperature</b>	-40° F to 158° F (-40° C to +70° C)
<b>System Weight</b>	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

**ELECTRICAL**

<b>Power Supply (Fusion Only)</b>	Battery pack (four 1.5V AA batteries) greater than 7.5 hours
<b>Battery Life (Image Intensified Only)</b>	Greater than 15 hours with 1 Lithium "AA" battery
<b>Power Supply</b>	Commercial "AA" battery, external +5 V

**MECHANICAL ADJUSTMENTS**

<b>Focus Range</b>	25 cm to infinity
<b>Diopter Focus</b>	+1 to -2 diopters
<b>Exit Pupil and Eye Relief</b>	14 mm on-axis exit pupil at 25-mm eye relief

**STANDARD ACCESSORIES**

- Helmet mount
- i-Aware® Connect
- Connector cable

**About Harris Corporation**

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

Learn more at [harris.com](http://harris.com).

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