

MINIE-D/IR **Connected Fused** **Sensors Night Vision** **Goggles**

Thales, combat proven night vision goggles with 110,000 devices in operation worldwide

MINIE-D/IR

Connected Fused Sensors Night Vision Goggles



A Major Breakthrough in Dismounted Soldier Night Operations

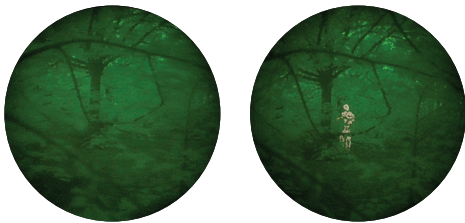
MINIE-D/IR is an image intensified bi-ocular (I²) night vision goggles associated to an uncooled thermal (IR) imaging module which allows to fuse optically thermal and intensified images. This innovation by Thales offers to the soldier new capabilities essential to modern warfare.

Applications

- Ground operations
- Specialized units
- Soldier systems

High performances

- An optimal situational awareness in any battlefield conditions enhancing mobility and survivability:
 - I² channel field of view
 - Ultimate sensors combination enabling decamouflage to increase threat detection



- Display of IR image in 2 available modes: "Full IR" or "Contours"
- Tactical superiority:
 - With external systems like C4I, BMS or others
 - Augmented Reality: position, orientation, rally point, target, Blue/Red force tracking...
 - Video exchange and replay, mission feedback, Battle Damage Assessment, training, etc.
- Adaptability to every mission requirements: 4 available configurations
 - IL or IR only, fused IL/IR and video feeds display. SVGA 800 x 600 @ 60Hz
- Simplicity: Fast and easy mounting of the IR plug-in onto MINIE-D – in less than 5 s.

MINIE-D stand-alone configuration
Removable connected battery pack (I² capability only)



MINIE-D connected configuration
Integrated video display (Multi-standard electrical interface)



MINIE-D/IR fused configuration
IR plug-in connected for an optical fusion I²/IR



Typical data

- Magnification 1x
- Field of view 51°
- Focus range 20 cm to infinity
- Diopter adjustment -6 to +3 diopters
- Eye relief 20 mm
- Field of view IR 36° (diagonal)
- IR sensor Microbolometer
- IR sensor resolution 336 x 256 pixels
- Spectral band 7.5 - 13.5 µm
- Weight 480 g (390JVN + 90 g Module)
- Dimensions 142(L) x 76(W) x 77(H) mm
- I² tube Gen. II or Gen. III
- Auto-gating Optional
- Brightness gain Manually adjustable
- Video Input Standards CCIR, RS170, VGA, SVGA, NVG alone (video feeds)
- Video Input Standard SVGA 800 x 600 @ 60Hz (color) (overlay of data on IR image) NVG with IR module
- Power source
 - Single battery pack 1x 1.5V AA battery
 - Power supply pack 5x 1.5V AA batteries
- Battery life at 20°C (I² only / I²+IR)
 - with single battery pack 40 h I² only (goggles only)
 - with power supply pack 150 h I² only / 13 h I²+IR
- Operating temperature -32°C to +44°C
- Storage temperature -46°C to +71°C
- Water immersion 1 m for 2 h

Others features

- Built-in infrared illuminator
- Automatic cut-off in high light conditions and independent of position
- "IR-ON" and "Low battery" indicator in eyepiece
- Video setting mode (brightness, contrast, IR superimposing...)

Available accessories



Building on 80 years of experience in high precision optics, Thales offers a comprehensive range of night vision devices.

Thales has a customer-focused approach and develops innovative and lightweight products which significantly reduce the soldier's burden while displaying greater situational awareness.

With 110,000 devices in operation worldwide, Thales is the leading manufacturer of night vision devices for pilots and dismounted soldiers in Europe. Thales night vision devices were chosen by the armed forces of many countries, including France, the United Kingdom and Germany.

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