



Newsletter #8 January 2022
[TheSophieClub.com](https://thesophieclub.com)
NightRise Night Vision Goggles

Discover the world-class capabilities of Thales's NightRise night vision goggles



Nellee, Minie, Minie-D/IR... Which one should you choose? Each type of night vision goggles is different — discover the one that suits your specific needs best! Watch our latest videos here:



Discover Nellee



Discover Minie



Discover Minie-D/IR

Did you know? All our night vision goggles are compatible with the brand-new XTRAIM weapon sight.

> [Click here to find out more](#)



ZOOM: Minie-D/IR – a major breakthrough for dismounted soldiers operating at night



Key features :

- Ultimate sensors combination enabling decamouflage of potential threats while preserving user mobility
- Improved situational awareness in any battlefield conditions
- Field of view of 51°
- Ultra-compact & lightweight: 480g

Key characteristics :

- Fast and easy mounting of the IR plug-in onto **MINIE-D** in less than 5 seconds
- 4 available configurations (I* or IR only, fused F/IR and video streams display) according to mission requirements



[Click here to discover the product view](#)



The importance of the choice of tubes in Thales night vision goggles

Inspired by the vision of nocturnal animals, night vision goggles (NVGs) operate on the principle of residual light amplification. Like the retina in an animal's eye, the electronic components in the goggles capture the photons that come through the lens and convert them into electrons. These electrons are then accelerated under high voltage in a vacuum tube and projected onto a phosphor screen. The phosphor screen acts like a cathode-ray screen, retransmitting the signals in the form of images.

The type of tube depends on the type of device, and choosing the right tube — and above all the right architecture — is a crucial design decision. Thales's world-class opto-mechanical know-how offers designers much more flexibility in the choice of tubes and lets them find the optimum combination of night vision performance and usability in the theatre of operations.

For new-generation night vision goggles, an 18 mm tube offers a number of key advantages over a 16 mm tube:

- Stronger optical concentration
- Higher resolution and MTF contrast
- Better DRI performance
- Lower sensitivity to cosmetic artefacts like black spots

On the other hand, conventional 18 mm tubes are heavier and less compact than their 16 mm counterparts, which could have a negative impact on the Size, Weight and Power (SwAP) performance of the night vision goggles. Glass-to-glass tubes, however, are significantly lighter than twisted-fibre tubes, making it possible to reduce the weight of the device, accommodate innovative architectures and offer a more compact optical design.

Read our white paper to understand the science behind the choice of tubes in Thales night vision goggles.

[Download the White Paper](#)

> [Learn more about the design of Night Vision Goggles: A behind-the-scenes look at the development of Thales's soldier optronics solutions | Thales Group](#)

Upcoming Events

Thales will have the pleasure to meet you:

02 March - 5 March
Iqdex, Iraq

06 March - 09 March
World Defence Show, Saudi Arabia

21 March - 23 March
Dimdex, Qatar



CONTACT US

For any further question, you can contact us at :
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