

## InfraRed Technology

Every day more and more pilots and crews use Night Vision Goggles (NVG) for night operations. The cost of NVG is constantly decreasing and makes it accessible to more pilots and helicopter companies.



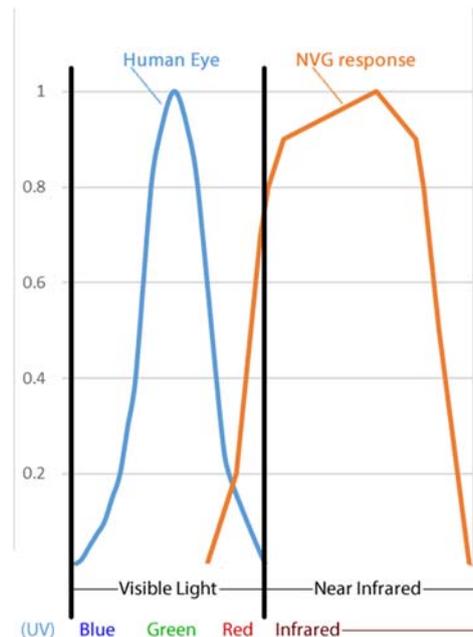
**The NVG system amplifies residual light at night, but doesn't render colors. Due to this fact, the identification of a helipad is more difficult.**

To guarantee the pilot a good "reading" of the environment through NVG, evolutions of the heliport lighting system are necessary.

All LED or incandescent lights are visible through a NVG unit, but the light amplification curve versus colors isn't linear (see graphic). That means, that colors with the same luminosity don't have the same intensity. In fact, the pilot isn't able to differentiate between the helipad lighting system and other lights.

Following this observation, Aerolighting has developed and produced a "NVG enhanced" lighting system. Composed of a complex LED light engine, this system is optionally available on our products. We use an optically complex diffused InfraRed LED engine specially developed for this application.

**Through the NVG, the helipad lighting "NVG enhanced" detaches the helipad from all other lights. This "NVG enhanced" system guarantees to our helipad lights to be clearly better detected by the pilot through NVG. Tested by pilots, our system is shown to be 10 times more efficient than with standard lights.**



Our special InfraRed LED light engine has a very high response on NVG units. That means, that this "NVG enhanced" lights will be highly amplified by the NVG. Environment and other lights are still visible with the same quality.

**The use of non-visible InfraRed lights guarantees other pilots flying without NVG not to be disturbed..** For pilots flying without NVG, no modification is visible on the lighting system.

In our helipad lights, the InfraRed and visible parts can be independently controlled. Everything is integrated in a single unit. It is possible to activate only visible or IR lights separately or both together.

The HFT-Dual integrates both, visible and "NVG enhanced" technology from Aerolighting in a single LED light.

*This system makes flying with NVG easier and safer.*

