TopOwl®
Designed by pilots, for pilots
Helmet Mounted Sight Display for helicopters

www.thalesgroup.com
TopOwl® IN SERVICE, AHEAD OF THE PACK

ON BOARD:

System developed and currently over 700 helmets delivered

All TopOwl have been tested and qualified for NOE flights, day or night and in adverse conditions

In full-scale production: more than 1,500 systems over the next 10 years

Chosen by 15 countries for their army, navy, air forces, attack and transport helicopters

Installed and fully operational on 5 major helicopter programmes

QUITELY SIMPLY, THALES’ TopOwl® IS THE BEST HELMET MOUNTED SIGHT DISPLAY FOR HELICOPTERS IN THE WORLD
INCREASE OPERATIONAL EFFICIENCY

DAY/NIGHT AND ALL-WEATHER ENVIRONMENT CAPABILITY

- Display of FLIR images (including High Resolution)
- Integrated image intensifier tubes (I²T) visor display equivalent to the highest level of night vision performance
- Top of the market accuracy
- Compatible with full weapon suite: guns, rockets, air-to-air missiles
- Day and night symbology

REDUCE CREW WORKLOAD

THE RIGHT INFORMATION AT THE RIGHT TIME

- Visor projection reduces tunnel effect and provides excellent peripheral vision. It drastically improves performance over luminous urban areas and for ship landings, by allowing the pilot to see through the intensified image or FLIR
- High-quality graphic symbology (adaptable luminosity)
- High-quality video image
- Modular design: easy and immediate in flight transition between day/night and I²T/FLIR configurations
- Symbology can be projected on the periphery, leaving the central area free of visual obstruction
INCREASE CREW SAFETY AND COMFORT

UNMATCHED MAN-MACHINE INTERFACE

• Visor projected day/night display - 100% overlapped binocular system 40° field of view
• Unique customized helmet-fit system
  • TopOwl is the most comfortable and well-balanced helmet mounted display system on the market. Total headborne weight is only 4.85 pounds (2.2 kg) in full configuration
• Only one cable to connect the crew to the system
• Compatible with NBC kit and prescription glasses.
• Dual aircraft power supplies for the I²T and a backup battery in the quick release connector guarantee the safety needed for Nap of the Earth flying.
• No more pre-flight optical adjustment, no need of any boresighting system

REDUCE COST OF OWNERSHIP

THE FULL RANGE OF OPERATIONAL REQUIREMENTS COVERED

• Same equipment for attack and utility helicopters
• The basic helmet is pilot equipment and the display module is aircraft equipment
• TopOwl offers significant near-term growth capabilities and defined growth paths, with provisions for the integration of breakthrough technologies
• Symbol generator: integrated or compatible with external generator
• TopOwl uses state-of-the-art technology to provide the only complete, integrated helmet system solution
TopOwl® THE KEY TO MILITARY MISSION SUCCESS

SUITABLE FOR:

High Resolution FLIR capable

The TopOwl® Helmet Mounted Sight Display:

Increases operational efficiency
- Day/Night and All-weather Environment capability

Reduces crew workload
- The right information at the right time

Increases crew safety & comfort
- Unmatched man-machine interface

Reduces cost of ownership
- The full range of operational requirements covered
THE NO-RISK SOLUTION FOR ALL MODERN TRANSPORT AND ATTACK HELICOPTERS

PILOT FEEDBACK

• "By far the most comfortable helmet system that I have worn"
• "The TopOwl system provided a seamless transition from all environments. The dual visor arrangement was excellent"
• "The TopOwl was light, and the center of gravity very well balanced"
• "The TopOwl display was easy to read and user friendly... no apparent eye strain after 30 minutes"
• "TopOwl is the clear choice for our requirements"
• "The ability to have both your day system and night system on at the same time..."
• "It will both increase aircraft mission capability and reduce pilot workload and fatigue, thereby increasing situational awareness and performance"
• "It allows immediate transition between day/night I²T/FLIR configurations display: just by pushing a HOTAS button"