FLASH & Compact FLASH dipping sonars
SONICS sonobuoy processing system
Unrivalled Airborne ASW solutions to counter modern submarines in all conditions

- Unrivalled deep and very shallow water performance.
- Shortest dip cycle.
- Lightweight.
- Operational on more than 6 types of helicopter.
- More than 400 systems ordered, most of them in operation since 2002.
**FLASH, Compact FLASH and FLASH SONICS**

**Folding Light Acoustic System and Sonobuoy processing system**

**Presentation**

- Thanks to its deep immersion capability, FLASH is able to insonify the full water column and thus avoids non-detection areas from very shallow to deep waters. With a shorter cable length, Compact FLASH offers the same outstanding performance as FLASH up to medium water depths.
- Low frequency and large bandwidth active transmission provide a detection capability to counter the latest long range torpedoes.
- The shortest dip cycle time with the latest Thales BlueTracker sonobuoy processing capability (FLASH SONICS) provide unrivalled area coverage.
- FLASH system offers the fastest hydraulic reeling machine with full automatic control & safety functions.
- Compact FLASH is fitted with an electrical reeling machine to suit light helicopters.

**MAIN FEATURES**

- **Unrivalled performance in high reverberation and noisy conditions**, thanks to the combination of optimum low frequency and extra-large bandwidth creating long range detection and limiting reverberation impact.
- **Rejection of the noise generated by the helicopter rotor through optimized beamforming.**
- **Wideband ‘ring’ transducer design** enabling full acoustic power transmission even at shallow dipping.
- **Automated acoustic processing & rapid environment assessment** maximising detection probability & location, classification & attack capability.
- **Unlimited number of pings**: power transmission from the helicopter.
- **Safety**: safe sensor unit deployment and recovery.
- **Operational flexibility**: standalone (FLASH or Compact FLASH) or integrated with Thales BlueTracker sonobuoy processing system (FLASH SONICS).

**TECHNICAL FEATURES**

**FLASH and Compact FLASH**

- **Frequencies**: 3 frequencies between 3 and 5 kHz
- **Transmission mode**: Omni-directional
- **Pulse mode**: FM, CW, Combo (FM + CW)
- **Maximum operating depths**: FLASH up to 750 m, Compact FLASH up to 300 m
- **Reeling system**: Hydraulic drive for FLASH and electric drive for Compact FLASH

**FLASH and Compact FLASH SONICS**

- **Channels**: Up to 32 channel configurations with COTS processor and wideband VHF receiver
- **Compatibility**: All NATO standard sonobuoys and Thales SonoFlash
- **Operator aids**: Energy and active geographic plots, target tracking, classification tools, performance prediction and buoys field optimization.
- **Passive / Active display**: Active geographic and energy geographic displays

Compatible with the Thales BlueScan integrated multi-sensors acoustic system