



Helmet Mounted Display

« A monocular HMD solution for helicopters applications »

HMD solution

The ATIS2.0 HMD solution is the **most accurate** Head Tracking System (HTS) on the market for helicopter application.



EASY INTEGRATION

DUAL SEAT COCKPIT

ITAR FREE

LARGE HEAD MOTION BOX

SUNLIGHT IMMUNITY

Monocular symbology display

- Field of view : 25°
- Definition : 800 x 600
- High brightness and contrast
- Day & night symbology
- Flight symbology
- Customised symbology designed by pilots



Hybrid technology

The Head Tracking System (HTS) uses hybrid technology combining Optical measurement done by two cameras and GyroMEMs.

High precision cameras provide absolute optical localisation independantly with a precision **up to 2 mrds.**



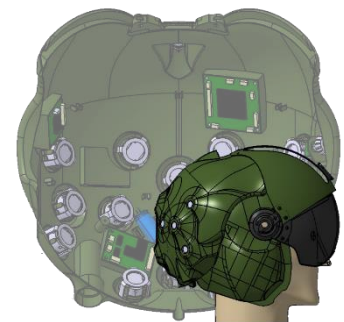
The hybridised Line of sight calculation provide a high level of **redundancy** using 3 independent sources: **2 high precision cameras + 1 GyroMEMs**

Using one fast inaccurate instrument (Gyros) and two accurate but slow sensors (Camera) **to get fast & accurate head positions.**

Headgear

Easily customized to **any basic helmet**, a second skin is added including:

- 15 Leds + optics set to form the patterns
- Power board to manage & protect leds
- Intelligent boards with gyro providing:
 - Helmet angles rates
 - Memory for gyros and patterns calibration



Architecture

