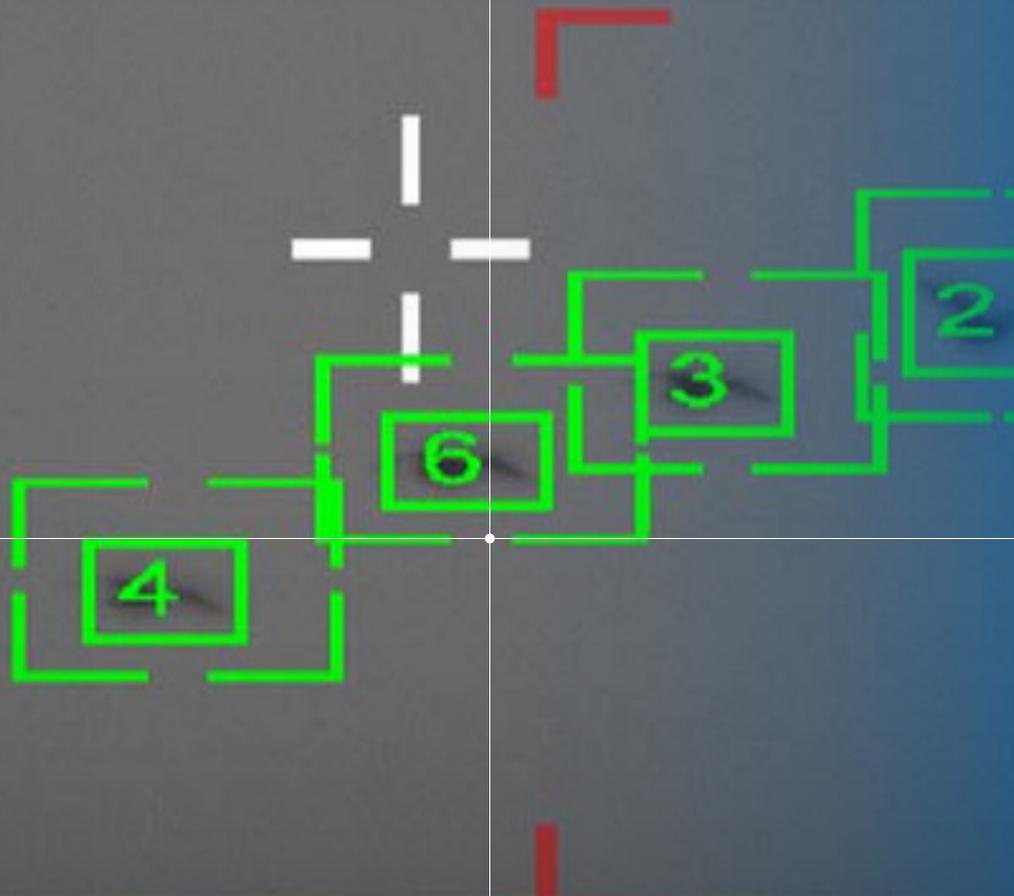**hemeria**

👁 OBSERVATION          ◎ DETECTION

# Hyperia VT
# Multi-target video tracker

`Multi-target tracking`   `Automatic acquisition`   `Trajectory extrapolation`

HEMERIA designs, builds and maintains HYPERIA VT, a multi-target video tracker capable of simultaneously detecting and tracking several targets of interest in a video stream. HYPERIA VT is flexible, fully configurable and also enables you to extrapolate trajectories (prediction) offering you tracking to target in all conditions.

**OBSERVATION**  **DETECTION**

## Features

• Automatic target acquisition and tracking

• Multi-criteria target detection  (filtering  and discrimination of echoes) according to size, vector and shape

• Tracking based on pixel values or real values if the tracker receives enough information

• Different types of algorithms can be used to track a certain type of target and adapted to its environment (distant target distorted by atmospheric disturbances, close high-contrast target in a cloudy environment, close target against landscape background, etc.)

• Multi-target tracking and automatic tracking of selected target (which becomes the main target)

• Tracking can be switched on demand to a new selected target (each tracked target is automatically assigned a number)

• Automatic reacquisition if the  main target is lost

• Algorithms tailored to visible or infrared camera sensors

• Trajectory extrapolation based on platform movements if the tracker receives enough information

• Time synchronization

• Detection algorithm: centroïd / edge / combined

• Configurable scenario suitable for multiple drops

## Video sources

• Digital HD SDI 1280x720 50-Hz / 1920x1080 25-Hz video

• CoaXPress 100-Hz digital video

• Analogue video

• All digital video formats supported via adaptation of the video acquisition input stage

## Interfaces

• Control interface : Gigabit Ethernet, XML format

• Transmission of target positions : Gigabit Ethernet, KVL format based on MISB ST 0601 and MISB ST 0903 standards

• Graphical configuration application supplied for PC

## Other features

• Validation of complex scenarios using 3D HIL simulations