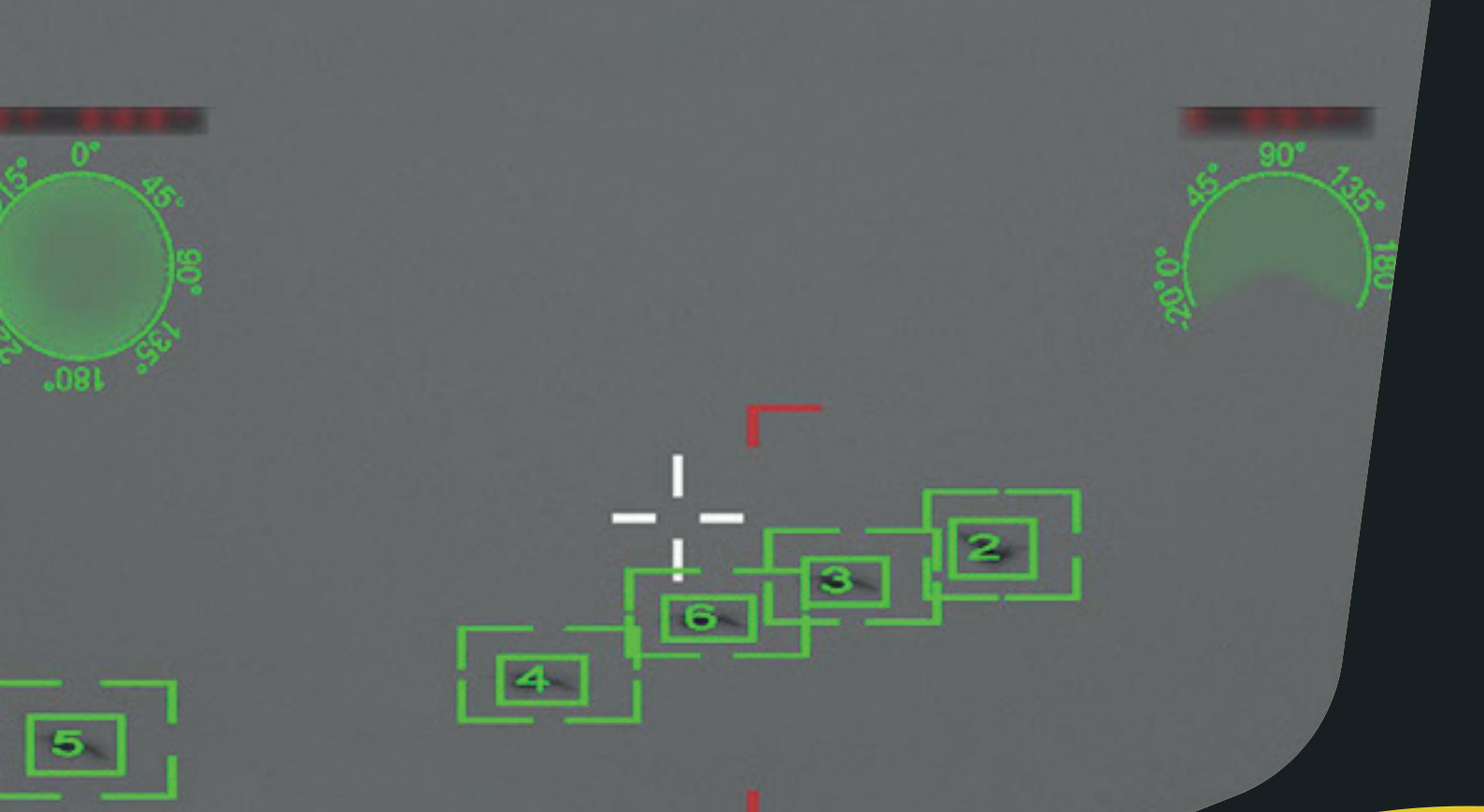


hyperia VT

multi-target video tracker

hemeria

The Hyperia VT multi-target video tracker affords the capability to detect and track targets of interest inside a video stream.

- Automatic target acquisition and multi target tracking
- Extrapolation of trajectories
- Full-scale operation

tested & validated by French Army

applications

TRAJECTOGRAPHY, OBSERVATION, ATTITUDE

land & sea



hyperiaVT

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 nformation
- Time synchronization
- Ability to detect/track by shape if the target has a discernible shape from a database of sample signatures generated by learning

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

other features

- Validation of complex scenarios using 3D HIL simulations

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