

AUTOMATIC VIDEO TRACKING

INTERFACE BOX



The Quickset Automatic video Tracking Interface Box is a low-cost high-performance video tracking hardware and software sub system designed to meet the demands of the surveillance and UAV markets. The advanced technology at the core to the video tracker allows complete interface customization to meet the requirements of the most demanding applications. The Quickset Video Tracking Box pairs with Quickset Mercury and MPT positioner-based cameras systems.

The tracker interface Box is available in dual HD-SDI capable video inputs configuration with the option to convert one input to analog at the factory by changing electronics. The tracker provides a single HDMI video output that can be used to display either of the video signals.



The HD-SDI digital video interfaces support standard and high-definition resolution up to 1080p30 (SMPTE 259M/344M/292M)

STANDARD FEATURES

- **Embedded Tracking Algorithm**
 - User selectable tracking modes for improved target acquisition and retention
 - Multi target tracking with field of view. One target tracking using positioner
 - Automatic coast mode for improved object tracking through oscillations
- **Control interfaces**
 - Ethernet interface to tracker and PanTilt
- **Video interfaces**
 - SDI video inputs (2) and HDMI output (1) 7-8980 model
 - › SDI video input (1) and analog video input (1) and HDMI output (1) as a custom option
- Interfaced and progressive formats
- Resolution up to 1080p30
- **Streaming video over ethernet**
 - Multiple CODEC/Transport options (H.264/H.265/MPEG-4)
- **Integration**
 - Creates a fully integrated tracking platform when paired with QuickSet mercury and MPT positioner based camera systems
 - Serial control of QuickSet camera lens systems
 - Serial control of QuickSet laser range finder
 - Radar integration option available
 - Fully integrated with QuickSet control software
- Easy integration with custom command and control applications
- Configurable motion compensation PID filter
- User configurable Picture in Picture
- Tracker discovery on network using proprietary command

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AVAILABLE OPTIONS

- Tracker Controls Using USB Joystick
- Environmentally Ruggedized Quickset Camera System
- Environmentally Ruggedized Quickset Electrical Interface Box
- Additional Image Processing Algorithms/filters
- Electric Image Stabilization (EIS)
- Local Area Processing (LAP)
- Histogram, Gamma Correction, Denoise, etc.
- Custom Algorithms/Symbology/Annotation
- Operator Training (onsite/offsite)

TYPICAL APPLICATIONS

- Surveillance
- Realtime Missile And Aircraft Tracking
- Weapon Systems
- Simulator Systems
- Trajectory Analysis
- Bomb and Weapons Scoring
- Electric Counter Measures ECM Evaluation
- Reentry Vehicle and Satellite Tracking



HANDHELD JOYSTICK CONTROLLER
- CORDLESS AVAILABLE

FUNCTIONALITY

- **Switch video source on the fly**
 - Target reacquisition may be required
- **User Configurable Tracking Modes**
 - Vehicle
 - Stationary
 - Drone
 - Person
- **User Configurable Tracking Box**
 - Manual**
 - User defined size and shape of track
 - Acquisition Assist (coming soon)**
 - Tracker automatically optimizes track box size
 - Intelligent Assist (coming soon)**
 - Tracker automatically re-initializes if target appearance changes
- **Automatic Coast Mode**
 - Provides optimal recovery for intrusions and disruption of track
 - User configurable coast period and output behavior
- **Library**
 - Object classifier library (optional)
 - Quickset mount and camera selection library
- **User Configurable Image Overlays**
 - Tracking box outline
 - Reticle
 - KLV data (custom option)
 - Text data (custom option)
- **User/Diagnostic Functions**
 - User define configurations
 - Field downloadable software updates

GRAPHIC USER INTERFACE

- PC based program for setup and testing through the ethernet interface

STREAMING AND RECORD

- Simultaneous streaming of both video inputs
- Configurable video stream settings
- Picture in picture available
- Ability to insert meta-data into video stream (custom option)
- Edge recording available (custom option)



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