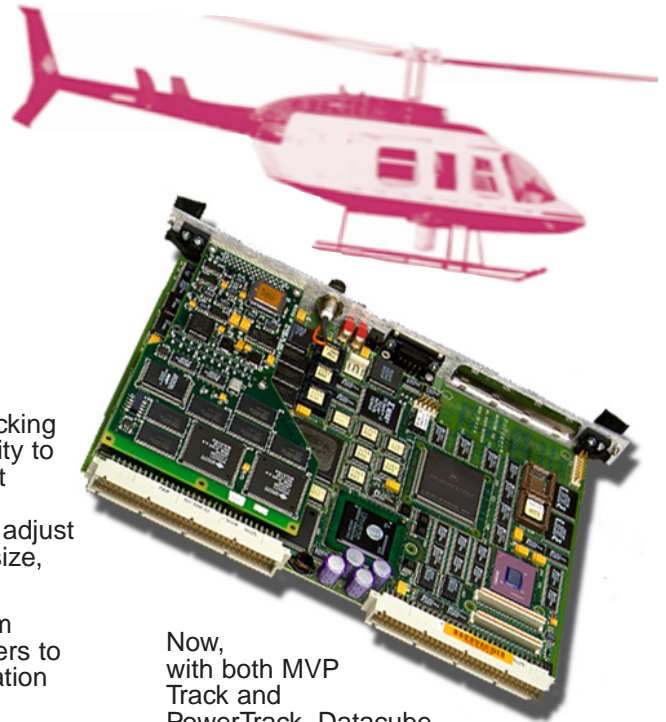


MVP Track Single-Board Tracker



Single-Board Video Tracking Solution

- Complete commercial tracking solution
- Self-contained in a single-slot 6U VME Board
- Robust clutter tracking
- Ideal for helicopter-based tracking
- First commercially available product to provide true correlation target tracking for less than \$20,000!



Datacube's MVP Track is a single VME-board, reduced-cost version of the highly successful PowerTrack video tracking system.

MVP Track provides robust clutter tracking with a product that requires only a compact single 6U VME slot, and does not need an additional board with a CPU. It is ideal for helicopter-based tracking, and applications where multiple trackers are required on a single back-plane.

MVP Track can cost under \$20,000—the first commercially available tracker to provide true correlation target tracking in this price range. With MVP Track, for the first time video target tracking technology becomes economically feasible for a range of commercial and military applications including tracking a target from a moving platform such as a helicopter.

MVP Track is based on PowerTrack, which was developed in cooperation with advanced tracking software industry leader SVS R&D Systems from Albuquerque, New Mexico. Together, Datacube and SVS have a history of successful tracking applications, installed by customers including the US Air Force, US Navy, and major industrial powers. PowerTrack continues to be available for high-end applications.

Advanced Algorithms

Designed for hands-off tracking, MVP Track uses a proprietary combination of tracking algorithms, including correlation. It also includes a sophisticated coast mode and a Kalman filter target predictor.

The track gate position, track gate size, contrast threshold, algorithm, and boresight can all be controlled either manually or automatically.

MVP Track's correlation tracking capabilities include the ability to define a fully variable target template. Once set, this template can automatically adjust to handle changing target size, orientation, and shape.

Datacube can quote custom integrations for volume orders to expedite the system integration process.

Powerful and Economical Video Tracking Solutions

As a hardware supplier, Datacube has over a decade of experience with progressively more powerful tracking applications.

Now, with both MVP Track and PowerTrack, Datacube provides hardware/software tracking solutions that meet the technical and economical requirements of a very broad range of military, law enforcement, and commercial applications.

Specifications

Video Inputs

- Format: Composite Video (1.0 V p-p, 625/525 Line)
- Standards: NTSC, PAL
- Type: Differential
- Impedance: 75 Ohm

Target Acquisition

- Manual or Automatic

Target Tracking

Track Gate

- Position: Movable to any field of view (FOV) position
- Positioning Modes: Manual or Automatic
- Size: Variable from 2% to 50% of the FOV
- Sizing Modes: Manual or Automatic

Track Algorithms

- Correlation
- Centroid

Breaklock/Coast

- Automatic track loss detection

- Automatic target re-acquisition following breaklock

Video Output

- NTSC
- PAL

System Interface

- Joystick
- D/A output
- VME I/O by TCP/IP sockets
- Serial I/O

Miscellaneous

- Two-axis PID filters
- Manual or automatic boresight operation
- Sub-pixel accuracy

Additional Information

For related product information, refer to the following Datacube literature:

PowerTrack Advanced Tracking System Datasheet

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