

CONTROL UNITS

AVT Controller MkII

**Real time controller for ADEPT
automatic video trackers**

The Octec AVT controller provides an ideal user interface for the ADEPT automatic video trackers and can be used in a prototyping, development or production project phase. Complete tracker functionality is provided via a logical, easy-to-use set of controls.

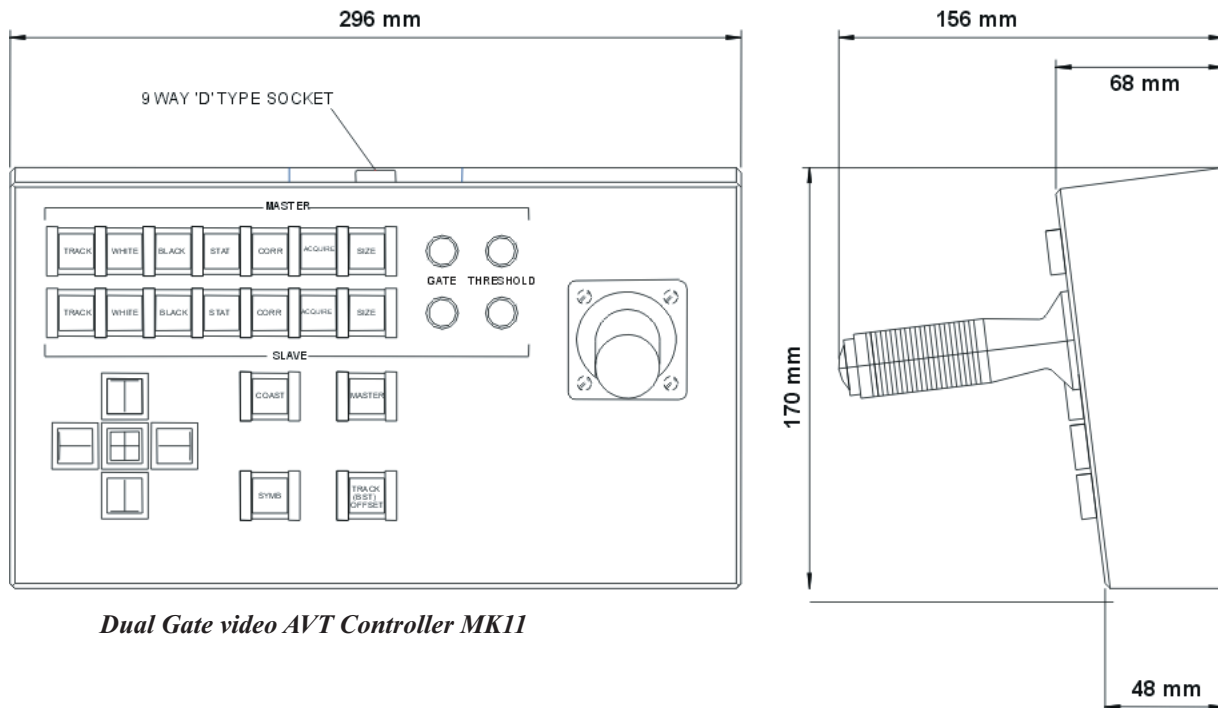
- **Real time control and monitoring of Octec ADEPT AVTs**
- **Single switch access to all Track Algorithms**
- **Single switch access to all Image Enhancement pre-processors**
- **Joystick for Acquisition mode gate placement and platform drive**
- **Potentiometers for gate sizing and manual threshold control**
- **Illuminated switches provide color feedback of current AVT configuration and mode**
- **Switch illumination controllable for use in low and high light environments**
- **Available in single or Dual Gate configurations**
- **Functionality implemented through software allowing simple modification to meet customer control requirements.**



The ADEPT tracker family has been developed to provide the highest performance solutions in the smallest, fully environmentally proved hardware packages. The majority of customer requirements can be met by the application of standard 'off the shelf' products that have been designed to satisfy the majority of interface and performance requirements without the need for modification. The key features of the Adept video tracker range include:

- Software based
- Range of proven algorithms
- Algorithms tailored for the application
- Single or multiple PEC configurations
- Offered as board level or packaged
- Over 600 units delivered
- In service with over 70 customers world-wide
- Easily adapted to meet a wide range of applications
- Range of build standards - Conduction or convection cooled
- Multiple interfaces - VME, digital, serial and analog

AVT CONTROLLER MKII SPECIFICATIONS



Dual Gate video AVT Controller MK11

Power

- OV, +12V @ <1.2A
- Fused @ 2.0A

Communication Protocol

- Format: Asynchronous Serial RS232/RS422

Connectors

- AVT CONTROL: 25 way 'D' type plug

Switches

- Momentary illuminated switch with optional acetate legend inserts.
- Dual LEDs to provide Green and Amber illumination with controllable intensity.

Potentiometers

- Single turn linear potentiometer
- 8 bit resolution

Joystick

- 2 Axis -12 bit resolution
- 2 axis analog joystick with KWS Handle option including push button switch in the top

Environment

Temperature:

- Operating 0° to +50°C
- Survival -40° to +70°C

Humidity:

<90% non condensing

Octec has over 300 man years of experience in applied image processing and is one of the leading independent suppliers of 'commercial-off-the-shelf' video tracking and image processing systems to the global aerospace market. Part of Radstone Technologies' Embedded Computing business, virtually every major European and US aerospace prime contractors is an Octec customer.

Octec's engineering expertise encompasses not only the hardware and software design of video trackers and image processing elements, but how they are applied to provide new or improved system capabilities. Octec also possesses great expertise in a wide range of complimentary technologies. These include system management processing, digital and analog interfacing and signal distribution as well as electro optical sensor and overall systems integration for applications in the airborne, land and marine environments.



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