

# CHARM - 10CE Enclosure



## Video Tracker Module

The Vision4ce CHARM-10CE Enclosure consists of a CHARM 10CE or CHARM 10CE HD packaged into a rugged, sealed enclosure along with a 28VDC power supply suitable for vehicle or aircraft power supplies.



Tracking a jet-ski using IR video



CHARM 10CE Enclosure

### Key Features

- Multiple object detection and tracking
- Centroid & edge measurement
- Feature based correlation algorithm
- Moving object detection
- Adaptive background removal
- Automatic coast
- Grey level invariant algorithms
- Robust clutter rejection

### Additional Image Processing options

- Video compression and streaming
- Electronic image stabilization

### Applications

- Security and surveillance
- UAV & UGV
- Manned vehicles

### Interfaces

- Two digital video inputs (CHARM80HD)
  - SMPTE 292M, HD-SDI
  - 75 Ohm
  - 480i60, 576i50, 720p50/60, 1080p25/30, 1080i50/60
- Two digital video outputs (CHARM80HD)
  - SMPTE 292M, HD-SDI
  - 75 Ohm
  - 480i60, 576i50, 720p50/60, 1080p25/30, 1080i50/60
  - Selectable symbology overlay on one output
- Two analogue video inputs (CHARM80)
  - 1.0V peak to peak into 75 Ohm
  - CCIR, RS170, PAL or NTSC
- Two analogue video outputs (CHARM80)
  - 1.0V peak to peak into 75 Ohm
  - CCIR, RS170, PAL or NTSC (depending on input)
  - Selectable symbology overlay on one output
- Four bidirectional serial interfaces
  - 2 x RS232 and 2 x RS422
  - Asynchronous
  - Baud rate variable up to 115,200
- Ethernet
  - 1 x 10/100/1000 Base T
- Switch Inputs
  - 4 x switch closures
- CAN

### Power

18-32VDC MIL-STD-1275D, < 10 watts

### Connectors

- D38999 37 way plug
  - Power
  - Ethernet
  - 2 x RS232
  - 2 x RS422
  - 1 x CAN
  - 4 x switch input
- 4 x BNC sockets
  - 2x video inputs
  - 2x video outputs

### Mechanical

- Weight 2.5lbs, 1.1kg
- Dimensions 7.0" (d) x 5.67" (w) x 1.93" (h) (178 mm x 144mm x 49mm), excluding connectors.

### Environmental

- Temperature
  - Operating -40C to +71C
  - Non-operating -55C to +85C
  - Thermal shock (operating) > +/- 5C per minute
- Humidity
  - 5% to 95% non-condensing
  - Optional conformal coating available
- Shock
  - 30g, 11ms

Designed and manufactured in the UK

