

CHARM-80 Enclosure



Video Tracker module

The Vision4ce CHARM-80 Enclosure consists of a CHARM80 or CHARM80HD 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-80 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

