

VMT 8

I-Box Single Camera Image Processing Platform



DESCRIPTION

The TRANTEK **VMT-8 – I-Box** is a single camera image analysis processor. The I-Box provides a platform to run intelligent video analysis algorithms. Designed to be installed in legacy analogue video security networks as well as in a modern digital streaming video network. The I-Box is a low-cost hardware platform that takes an analogue video feed and then provides the digitised information to an algorithm (or suite of algorithms) resident in the I-Box for processing. If anomalous behaviour is detected the operator is alerted using the existing alarm network and/or video signal itself. Algorithms can be loaded into the I-Box from a computer through its network interface or through a USB dongle.

The power consumption is sufficiently low that it can be powered from existing camera power supplies and with its small size can be fitted inside some camera housings. The I-Box is built on a low cost high reliability embedded processor with a secure microkernel. The result is a high reliability system able to operate in the field for years without the need for software or hardware maintenance.

Apart from the composite video input and output, the unit has an Ethernet interface, audio input, output, contact inputs and outputs.

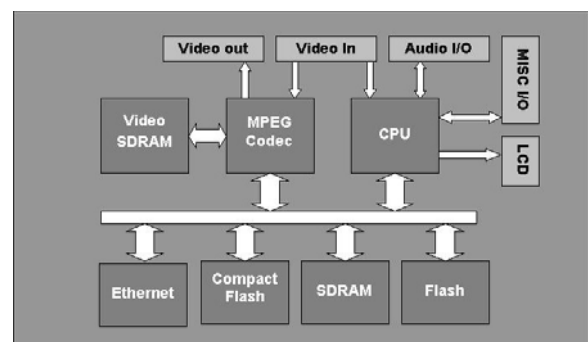
OPERATION

The I-Box is inserted into the analogue camera video feed and connected to the alarm network. When an I-Box algorithm detects an anomalous event (e.g. a person moving the wrong way down a corridor) it raises an alarm by closing a contact and overlays the video signal with alarm information.

A more advanced model of the I-Box performs the same functions but allows it to deliver the digital video stream it generates for analysis to an IP network for distribution as part of a digital CCTV security system. The results of the analysis (algorithm output) can also be carried across the network to the monitoring centre.

An open system interface description allows the results of the analysis to be integrated into third party digital CCTV security systems, encoders and GUI interfaces.

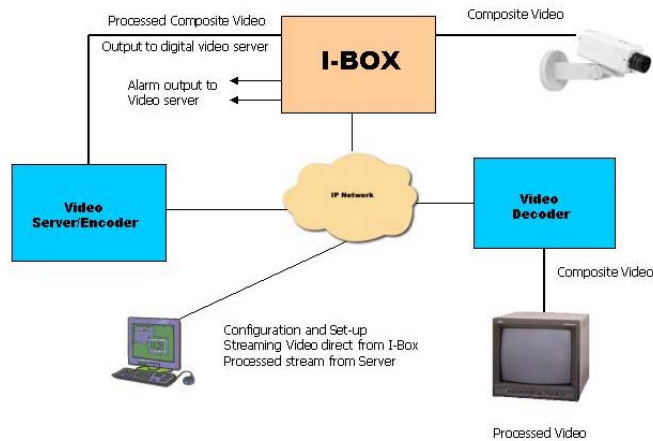
The network provides a back channel to control the I-Box, upload new algorithms and provide camera control if appropriate.



VMT 8 – I-Box Image Processing Platform

FEATURES

- ✓ Provides complex image analysis capability to legacy analogue security systems
- ✓ Ethernet interface and analogue video passthrough
- ✓ Integrates to modern streaming video digital security systems
- ✓ Published interface allows it to integrate to any digital encoder and GUI alarm system
- ✓ Excellent image analysis capability. Accepts analysis software from several developers
- ✓ Select and upload the analysis algorithms
- ✓ Can be powered from camera power supply



SPECIFICATIONS

Analysis algorithms:

Motion detection
 Direction of motion
 Added/Removed object
 Fall, slip detection
 Vehicle recognition
 Number plate recognition
 Human identification
 Face recognition (not identification)
 Object tracking

Power Supply:

5-24V DC or AC, 10 W max.

Operating Environment:

Temperatures: 0° to 60° Celsius
 Humidity: 5% to 95% Non Condensing

Compliance:

CE, FCC-B part 15, C-tick

CONTACT



Trantek Pty Ltd

Unit 3 99-101 Anzac Avenue
 West Ryde NSW 2114
 Australia

Tel: +61 2 9808 6166

Fax: +61 2 9808 6199

Email: sales@trantek.com.au

Web: trantek.com.au