

VE1.6 Thermal Imaging Engine

Video Engine for Cooled Thermal Imager



The VE1.6 Thermal Imaging Engine is a video engine for cooled thermal cameras. It supports detectors up to a resolution of 640x512 from various manufacturers. This module provides the perfect platform for system integrators to develop their own thermal imaging solutions.

The VE1.6 is an all digital board accepting Camera Link data at the input and providing analog and digital video at the output.

The VE1.6 is offered either as a stand alone engine or integrated with detector and lens options. It produces crisp and clear images for a broad range of applications in different configurations.



Key Features

- Compatible with a wide range of detectors
- Powerful image processing
- Up to 60Hz frame rate
- Multiple NUC tables stored in FLASH memory
- Automatic / manual bad pixel detection and replacement
- Automatic / manual gain control
- Histogram equilization
- Customizable color palettes
- Digital zoom
- Autofocus
- Network and RS232 control
- On-screen-display menu control

Applications

- Video Surveillance
- Security
- Machine Vision
- Process Monitoring

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Specifications

Compatible Format	up to 640x512
Compatible Detector Technologies	InSb / MCT / QWIP
Detector Pixel Rate	up to 40MHz
Input Format	Camera Link
Integration Time	Configurable
Frame Rate	50Hz / 60Hz
Analog Video Output	NTSC / PAL / VGA
Digital Video Output	Camera Link / Ethernet
Communication	RS232 Serial Protocol / Ethernet
Power Consumption	3.6W
Operating Temperature	-40°C to + 55°C
Weight	100g
Size	100mm x 90mm x 20mm
Software	Proprietary SW and Protocol Documentation provided



VE 1.6, detector and cooler



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