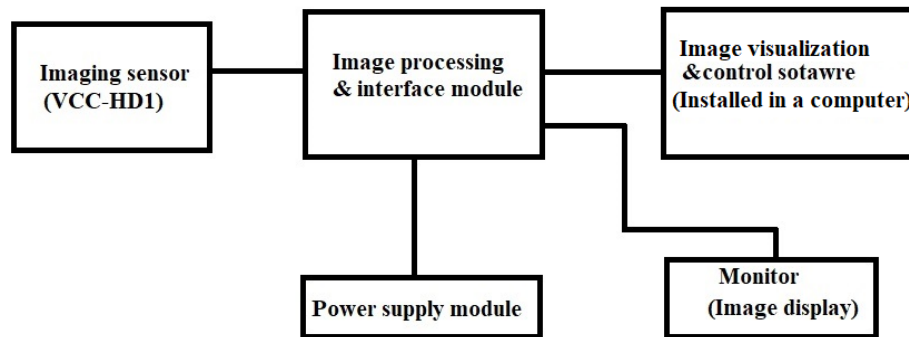


Overview

The VCC-HDS imaging system is a compact machine vision product designed for operations under very low light conditions.

The VCC-HDS imaging system consists of a 1280 x 1024 pixels high sensitive CMOS sensor (VCC-HD1), an imaging processing electronics, and related image visualization software.

Cantronic's expertise in this technology provides a complete low light machine vision solution with a full spectrum of visual wavelength.



System block diagram

Key Features

- Compact and light weight visual system
- 1280 x 1024 high sensitivity CMOS sensor
- Camera interface for power, camera link and control
- Imaging process and control software via Laptop
- Low light under star level
- Long operating life

Applications

This unique powerful system of machine vision is Cantronic's solution to an increased need for production line automation under low light condition such as:

- Machine Vision
- Process Monitoring

Cantronic Systems (Canada) Inc.

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Specifications are subject to change without prior notice.
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Specifications

Imaging sensor (VCC-HD1)	
Sensor resolution	1280 x 1024 pixels
Pixel pitch	9.7um x 9.7um
Sensor well capacity	>25000 e-
Dynamic range	>60dB
Quantum efficiency	>60% at 600nm
Imaging processing and Visualization	
Frame rate	>60 FPS
Digital output	Camera link
Video output	NTSC / PAL
Software functions	Digital zoom
	Brightness & Contrast control
	NUC, AGC setting, Filter
	Image orientation, Coordination Snapshot, Trigger, Enhancement
Power	
Input power	5-15 VDC
Power consumption	< 3.0 W
Mechanical	
Weight	230g without lens
Dimension (mm)	96 x 61 x 66 (without lens)
Environment	
Operating temperature	-25°C ~ +50°C
Storage temperature	-40°C ~ +70°C

How to Order

VCC-HDS-XXXE

↑ ↑
Lens
X: Without Lens
25: with 25mm Lens
60: with 60mm Lens

M: Manual Lens

E: Electric Lens

Standard Selectable Lens Table

Manual control lens		Electric control lens	
f	F	f	F
9mm	1.2	5—120mm	1.6
16mm	1.3	45—450mm	6.0
25mm	1.4	80—600mm	5.0
60mm	1.6	100—800mm	6.0

We can customize the lens based on client requirement

Customized Lens Available

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