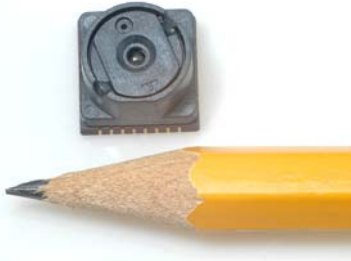


DALSA DCI0605C

CMOS VGA Sensor Module



Key Features

- Compact size sensor module with integrated two-element lens system
- 640H x 480V (VGA)
- Up to 30 fps @ 12 MHz
- 4.48 mm (1/4") active image diagonal
- Highly sensitive, low noise
- Bayer-RGB color filter array with micro lenses
- Antiblooming
- Integrated on-chip timing
- Programmable via I²C serial interface
- Electronic shutter control
- 24dB Programmable Gain (255 steps of 0.094 dB/step)
- 9 bit digital output
- User programmable window of interest
- Single 2.6 - 3.6V supply voltage range, low power consumption
- Real time white pixel correction

Typical Applications

- Mobile phone
- PDA
- PC camera
- Automotive
- Security

Overview

CMOS VGA Image Sensor Module with integrated two-element lens and digital output, available for high volume applications.

The DCI0605C is a fixed-focus, highly integrated 1/4" CMOS color imager module that supports up to VGA resolution formats in a small package including a focused optical system with high sensitivity and low noise. The sensor is digitally programmable via an I²C serial interface and is equipped with an integrated Programmable Gain Amplifier and a 9-bit A-to-D Converter. The embedded flexible timing generator enables easy matching to various digital signal processing chips.

The module can operate as a master or as a slave. In the master mode, line and frame synchronization output signals are generated by the module. In the slave mode, the same pins are used as input for the horizontal and vertical synchronization signals.

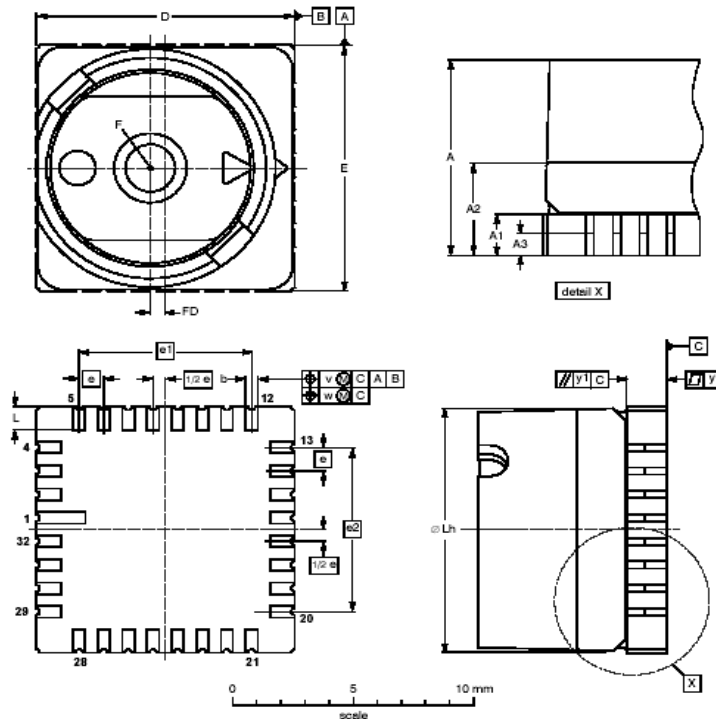
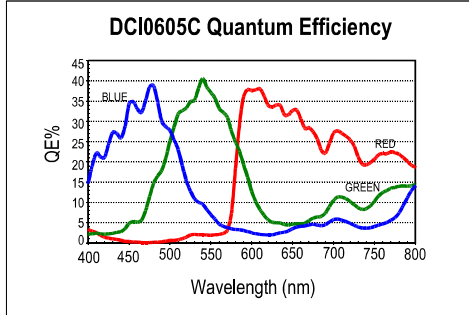
Specifications

Resolution	640 x 480
Pixel Size	5.6 μ m
Optical Size	3.6 mm x 2.7 mm
Max. Line/Frame Rate	30 fps
Data Rate	13 MHz 9 Bit Digital
Responsivity	1500 mV/lux*s (green)
Dynamic Range	56 dB
Package	32 pin ceramic quad chip carrier
Operating Temperature	-20 °C to 70 °C
Example Part Number	DCI0605C

DALSA DCI0605C

CMOS VGA Sensor Module

CMOS VGA Image Sensor Module
with integrated two-element lens
and digital output available for
high volume applications.



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A1	A2	A3	b	D	E	e	e1	e2	L	Lh	FD	v	w	y	y1
mm	8	1.78 1.52	3.90 3.46	0.89	0.55 0.45	10.79 10.53	10.79 10.53	1.02	7.11	7.11	1.14 0.88	10.10 9.94	0.65 0.55	0.13	0.1	0.1	0.1

