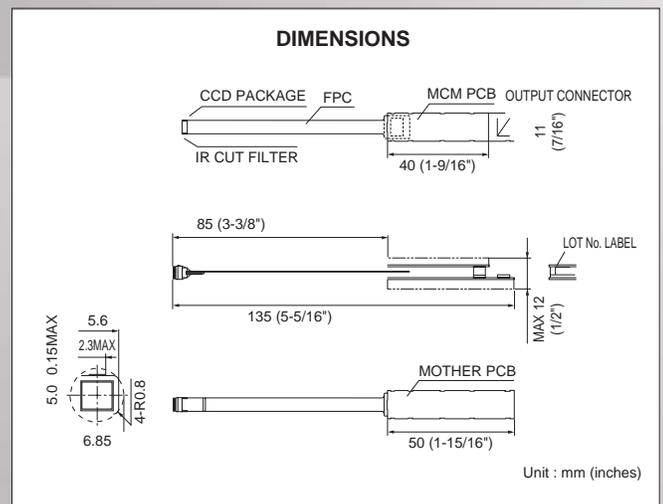


Panasonic

GP-CX261V(NTSC) GP-CX261VE(PAL) COLOR CCD CAMERA MODULE



Panasonic introduces a color CCD camera module designed for use in a diverse range of medical and industrial applications. The GP-CX261V Color CCD Camera Module is an ultra-small color CCD camera and processing/controller that can be easily incorporated into a number of devices that require high-performance imaging in limited space - such as, imaging scopes or industrial inspection systems. The GP-CX261V offers the high-performance imaging qualities necessary for intricate industrial and medical vision applications in a very small configuration. It features a 1/4-inch FPC type CCD that measures only 5.4mm x 6.0mm, and the CCD is extended via FPC for approximately up to 85mm. The camera head is connected to a camera control unit (CCU) board that measures only 50mm x 11mm.



Key Features

- Ultra-small, high-resolution 1/4" CCD package 5.4mm x 6.0mm, enables the CCD to fit into the tip of the scope camera.
- Ultra-small image processing/controlling board, enables the CCU part to fit into the grip of the scope camera.
- Total length of the camera module 135mm.
- I²C Command control for mirror image, nega/posi selection, ATW lock and camera adjustment.
- 1/4" IT CCD with 512(H) x 494(V) pixels delivers 330 lines of horizontal resolution (NTSC)
- VBS and YC video outputs
- S/N ratio of 46dB (AGC off)
- Minimum illumination of 6.5 lux (at F2.0)
- Ultra-small unit requires only 6V for operation
- External control of mirror mode
- Pre-set AGC, ELC & ATW

GP-CX261V(NTSC) GP-CX261VE(PAL)



Configuration: Color Camera Module

Applications:

- Inspection of precision machinery and engines
 - FA visual sensor
 - Checking completed, printed circuit boards
 - Inspection of medical operations/ treatments and microscopes
- Available either in NTSC or PAL system

SPECIFICATIONS

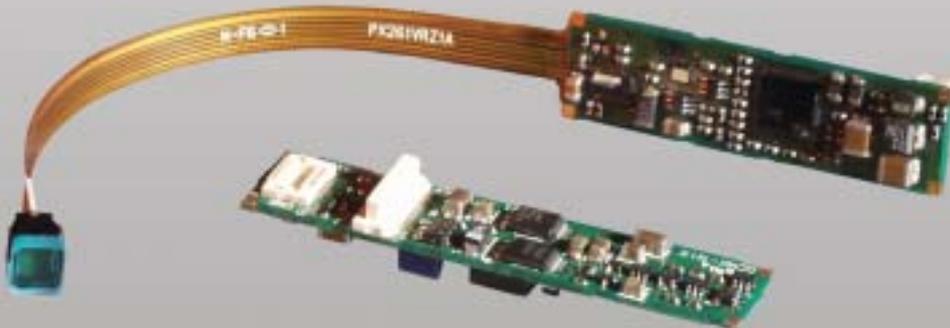
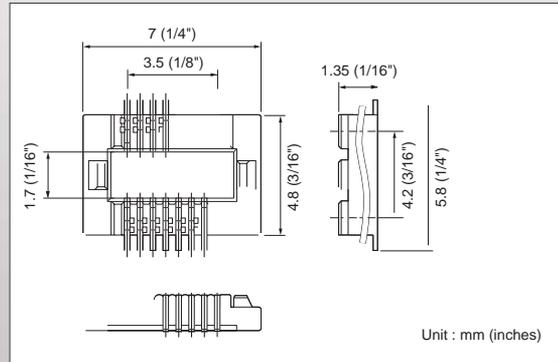
TV Standard	NTSC	PAL
Imaging Area	1/4-type 3.61mm x 2.72mm	
Effective Number of Pixels	512 (H) x 494 (V)	512(H) x 582(V)
Imaging System	Interline field accumulation	
Horizontal Scanning	15.734 kHz	15.625 kHz
Vertical Scanning	59.94Hz	50.00 Hz
Scanning Lines	525 lines	625 lines
Frames per sec.	30 frames	25 frames
Synchronization	Internal only	
Video Output	VBS, Y/C	
Resolution	Horizontal: 330 TV lines Vertical: 350 TV lines	Horizontal: 330 lines Vertical: 400 lines
S/N Ratio	46dB (with AGC off)	
Minimum Illumination	6.5 lx (0.65 fc) at F2.0	
AGC	On (preset)	
ELC	On (preset)	
White Balance	ATW (preset) /Manual	
Power Supply Voltage	+6V DC	
Power Consumption	200mA, 1.2W	
Temperature Range	Performance: +5°C - +35°C Operating: -10°C - +50°C	
Weight	approx. 6g	
External Control via I²C Interface	Mirror mode, ALC control, Sharpness, Gamma, Chroma gain/Matrix, Manual White balance (R/B gain), Contrast, etc.	

CONNECTOR PART NUMBER

AXK5F16345P: Female side (Attached on the CCU mother board)
AXK6F16345P: Male side (Mating side)

OUTPUT INTERFACE (Connector pin assignment)

1	C OUT	2	GND	3	GND	4	GND
5	Y OUT	6	GND	7	GND	8	GND
9	Video out	10	ATW lock	11	GND	12	+6V
13	GND	14	SCL	15	GND	16	SDA



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Digital Communications & Security Company

Unit Company of Matsushita Electronic Corporation of America

Security and Vision Systems Group

www.panasonic.com/visionsystems

tel: 201-392-6674 fax: 201-348-5346

Toll Free 1-888-VISION(8474)