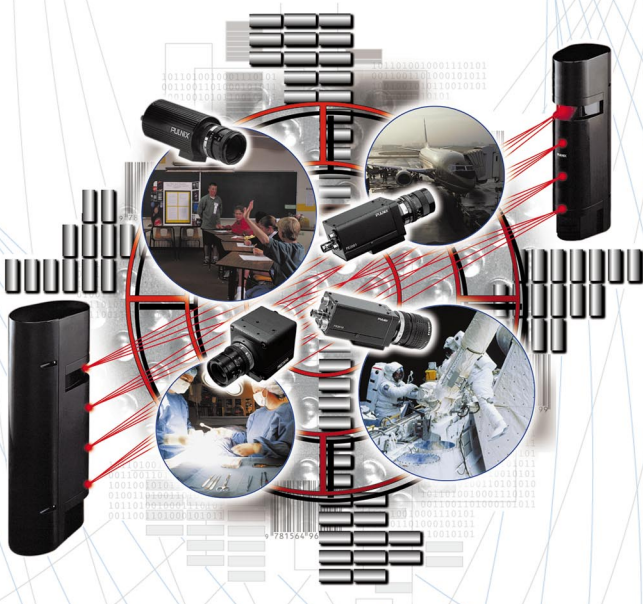


PE2010

High Resolution CCD Miniature Camera



The PE2010 is a new high performance cost effective monochrome CCD camera. The PE series provides superb resolutions with many standard optional features in a small package. Due to the compact size and performance this camera is ideally suited for all types of machine vision, automated processing, on-line inspection and medical equipment. Designed and manufactured at our European Headquarters in Basingstoke, the PE series have all the function and quality to meet the ever increasing demand for industrial vision cameras.

The PE 2010 has the ability to shutter up to 1/10,000 sec. with external control available on the back panel. AGC & Gamma control are also available externally as a standard feature, along with external Composite Sync. Custom artwork and re-design can be considered, consult PULNiX for this option.

Features

- Miniature size
- High resolution
- Shuttering to 1/10,000 sec.
- Externally adjustable Gamma and AGC/MGC.
- External sync (HD, VD, C Sync)
- C and CS Mount
- Excellent shock and vibration resistance
- Field/Frame selectable
- Integration

Shock and Vibration

The following results were achieved by the PE2010 with the camera held via the tripod mount.

Vibration: 2.7g for 9 hours Shock: 40g for 11ms.

Shutter Speeds

Shutter speed for the PE2010 is controlled by attaching the SC745 shutter controller to the 6-pin connector, or using dial on the rear of the camera.

Control Setting	0	1	2	3	4	5	6	7
(sec)	1/50	1/120	1/250	1/500	1/1,000	1/2,000	1/4,000	1/10,000
D0	L	H	L	H	L	H	L	H
D1	L	L	H	H	L	L	H	H
D2	L	L	L	L	H	H	H	H

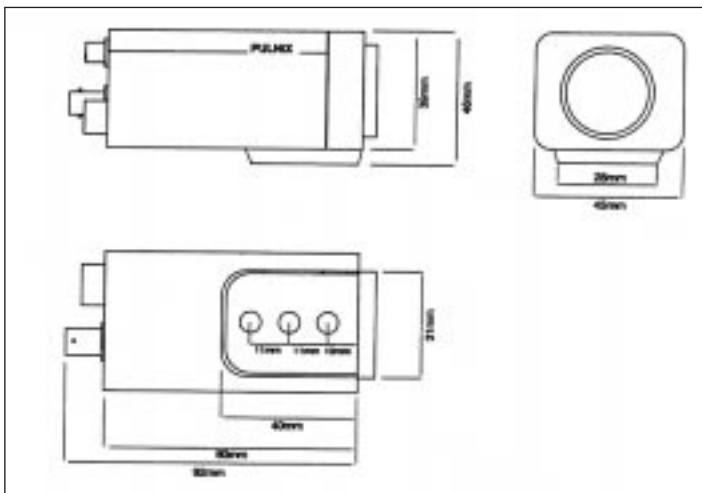
H= +5V L= 0V

Specifications

Model	High Resolution CCD Miniature Camera
Model Number	PE2010
Imager	1/3" interline transfer CCD
Pixel	752(H) x 582(V)
Cell Size	6.50µm(H) x 6.25µm(V)
Resolution	470 TVL (H)
Scanning	625 lines, 50 Hz CCIR, 2:1 Interlace Internal/external auto switch
Sync.	HD/VD/Csync, 4.0 Vp-p impedance 4.7kΩ HD = interlace
S/N Ratio	50dB min.
Min. Illum.	0.2 lux at f=1.4 without IR cut filter
Output	1.0 Vp-p composite video at 75Ω
AGC	ON/OFF switchable on rear panel (ON std.)
Gamma	0.45 or 1.0 switchable on rear panel (0.45 std.)
Lens Mount	C/CS mount
Power Req.	12V DC±10%, 200 mA
Power Supply	DC12PC2 or 240PSU
Operating Temp.	-10°C to +50°C
Power Cable	12P-02
Auto Iris Connector	Output on 6-pin video drive
Options Available	HD + VD output / CLK output / EIA version
Size (W x H x L)	45mm x 39mm x 92mm
Weight	228 grams

Due to ongoing product improvements, specifications may change without notice.

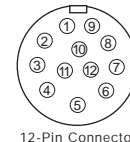
Physical Dimensions (mm/inch)



Pin Configurations

PE2010

12-Pin Connector

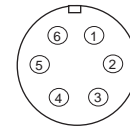


12-Pin Connector

	Pin No.
GND	1
+ 12 DC	2
GND	3
Video	4
GND	5
C Sync in	6
VD in / out *	7
GND	8
HD in / out*	9
Clock out *	10
Integration	11
GND	12

* Option

6-Pin connector



6-Pin Connector

D2	1
GND	2
Video	3
+12 V	4
D0	5
D1	6

Options

HD/VD Output
Master Clock Output
EIA Version

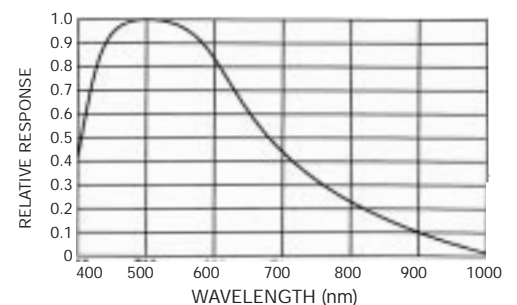
Accessories

DC12PC2 240V - 12V DC power supply 500mA
240PSU 240V - 12V DC power supply 1.6 A
SC745 Manual shutter controller.
HO-500L Weather resistant housing, standard grey, white option (HO-500LW)

Spectral Response

Spectral Sensitivity Characteristics

(Excluding light source characteristics, including lens characteristics)



PULNIX's Certificate No.: 5123

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