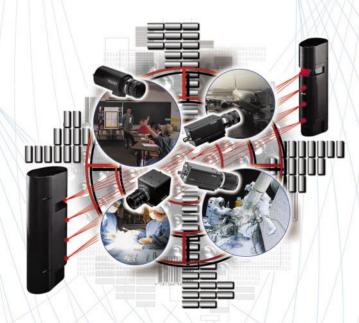
PE100

Miniature CCD Progressive Scan Camera







The PE100 camera offers a high resolution operation with all the facilities associated with a ruggedised industrial camera in a miniature package. The choice of standards and numerous options make this a very user friendly camera.

The PE100 has a 1/3" progressive scan interline transfer imager giving a resolution of 659 (H) x 494 (V). The camera has the facility to accept external syncs as well as outputting the internally generated syncs. The Gamma, AGC, MGC, frame and field modes are easily set for industrial applications by switches. Video output can be used by either the 12 pin connector or the BNC connector. The 75Ω impedance can be switched out to prevent loading of the video signal.

Features

- · Miniature size, light weight
- 1/3" imager 495 TVL Progressive Scan
- Electronic shutter
- AGC / MGC
- Gamma 1.0 (0.45 optional)
- External sync (HD & VD)
- C Mount
- 30fps or 60fps (double speed) progressive
- · Asynchronous Reset Shutter

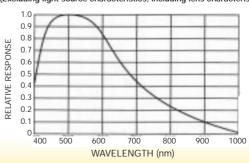
Options

Right angle head (PE100LN)

Spectral Response

The PE100 has an excellent low light sensitivity of 1.0 lux at f1.4. The good spectral response of the camera imager allows the camera to operate well into the high end infrared region. The signal to noise ratio of 56dB gives extremely good video images with no noise. This is useful for machine vision systems.

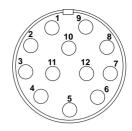
Spectral Sensitivity Characteristics (Excluding light source characteristics, including lens characteristics)



Specifications

Model	Miniature CCD Progressive Scan Camera	
Model Number		
Imager	1/3" Progressive Scanning Interline Transfer CCD	
Pixel	659 (H) x 494 (V)	
Cell Size	7.40μm (H) x 7.40μm (V)	
Resolution _		
Scanning	1/30 sec. Progressive, 1/60 sec. Progressive	
_	(double speed), 1/60 Interlace	
Vertical Frequency _	15.734kHz ±1%	
Horizontal Frequency	12.272MHz	
Optical Black	33 Elements on each Horizontal Line	
_	10 Elements on each Vertical Line	
	Internal / External Auto Switch	
S/N Ratio_	5/N Ratio 56dB (Gain 0dB)	
Min. Illum _	1.0 lux at f=1.4 with Normal Mode	
	ut1.0Vp-p composite video at 75Ω	
AGC	ON/OFF selectable via Dip Switch	
	Gain: Fixed / Manual (from 0 to 25dB) switchable	
_	on rear panel	
_	Gamma 0.45 or 1.0 (1.0 std.)	
Lens Mount _		
Shutter		
_	1/2,000, 1/4,000, 1/10,000 (sec.) Async	
Clock Output _	12.2727MHz	
Power Req.		
Operating Temperature		
Size (W x H x D)		
Weight _	Weight85g	

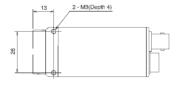
Pin Configurations



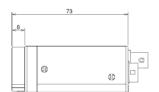
Connector: HR10A-10P-12S

	Signal			
Pin	External Sync.			
No.	Internal Sync.	HD/VD	Trigger Shutter	
1	GND	GND	GND	
2	+12V	+12V DC	+12V DC	
3	VIDEO GND	VIDEO GND	VIDEO GND	
4	VIDEO OUT	VIDEO OUT	VIDEO OUT	
5	HD GND	HD GND	-	
6	Int. HD OUT	Ext. HD IN	-	
7	Int. VD OUT	Ext. VD IN	TRG IN	
8	CLOCK GND	CLOCK GND	CLOCK GND	
9	CLOCK OUT	CLOCK OUT	CLOCK OUT	
10	GND	GND	GND	
11	-	-	WEN OUT	
12	VD GND	VD GND	TRG GND	

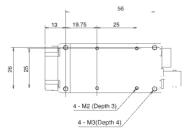
Physical Dimensions (mm/inch)

















PULNiX's Certificate No.: 5123

PULNiX Europe Ltd.

Aviary Court, Wade Road Basingstoke, Hants RG24 8PE, U.K.

44 (1256) 475555 Fax: 44 (1256) 466268 Email: sales@pulnix.co.uk

PE100 DS-09 00 Website: www.pulnix.co.uk