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PULNiX
IMAGING PRODUCTS

TM-200/TM-300
High Resolution CCD Camera



Product Features

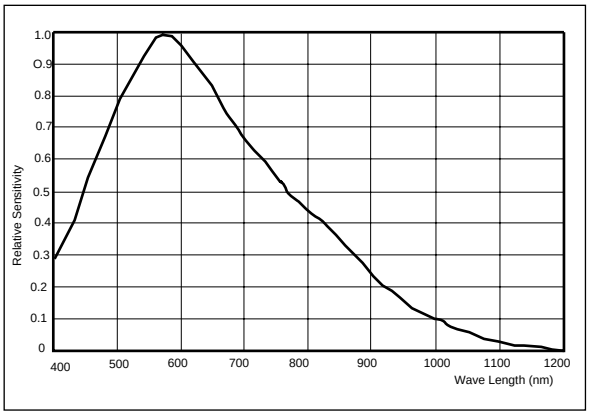
- **High resolution, 1/2" format CCD**
  TM-200: 768 H x 494 V (EIA)
  TM-300: 752 H x 582 V (CCIR)
- **Super mini size**
- **Advanced micro lens interline transfer CCD**
- **Shutter from 1/60 to 1/10,000 sec.**
- **Externally adjustable manual gain, AGC, shutter, gamma, and field/frame select**
- **External sync**
- **Custom cable length optional**
- **Input voltage 11-15V DC, 2.5W**

General Description

The TM-200/TM-300 camera offers high performance in a very tiny package, at a very affordable price. Designed to meet a variety of rugged industrial application requirements, this camera has many standard and optional features. It is available in both EIA (TM-200) and CCIR (TM-300) formats.

The most commonly needed adjustments, manual gain, gamma, AGC, and field/frame selection, are easily accessible on the rear camera panel. Electronic shuttering is another standard feature. Eight shutter speeds, ranging from 1/60 sec. to 1/10,000 sec., can be selected externally using the rotary switch on the rear panel.

The miniature size of the TM-200/TM-300 camera eliminates the need for a remoted imager in all but the most confined spaces. These cameras fit easily, both physically and functionally, into all types of machine vision, automated inspection, and related applications. Other uses include remotely piloted vehicles, miniature inspection devices, surveillance, microscopes and medical equipment.



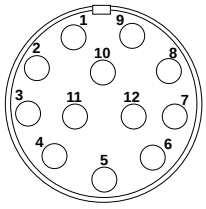
TM-200/300 Spectral Response

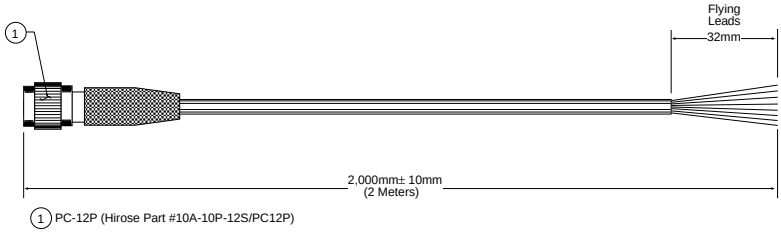
Connectors and Cables

12P-02 Interface Cable
(optional)

Pin#	Lead Color	Function
1	Gray	GND
2	Yellow	+12VDC
3	Red coax shield	GND
4	Red coax	Video
5	Orange coax shield	GND
6	Orange coax	N/C
7	Black coax	VD Input
8	White coax shield	GND
9	White coax	HD Input
10	Brown	N/C
11	Blue	Integration
12	Black coax shield	N/C

12-Pin Connector on Rear Panel

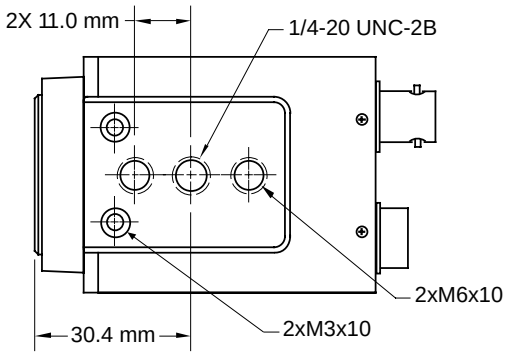


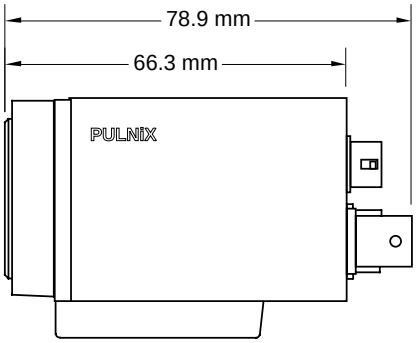


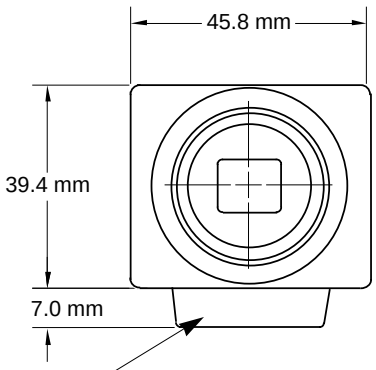
Specifications

Model	TM-200 (EIA)	TM-300 (CCIR)
Imager	1/2" Interline transfer CCD	
Pixel	768 (H) x 494 (V)	752 (H) x 582 (V)
Cell size	8.4 µm x 9.8 µm	8.6µm x 8.3µm
Scanning	525 lines EIA	625 lines CCIR
Sync	Internal/External auto switch	
	fH=15.734KHz ±5% fV=59.94Hz ±5%	fH=15.725KHz±5% fV=50Hz±5%
TV resolution	570 (H) x 350 (V)	560 (H) x 420 (V)
S/N ratio	50dB min., 56dB typical	
Min. illumination	0.5 lux (F=1.4)	
Video output	1.0 Vp-p composite video, 75Ω	
AGC	ON/OFF back panel switch	
Gamma	1 or 0.45 back panel switch	
Lens mount	C-mount, back focus adjustable	
Power req.	190 mA, 11-15V DC	
Operating temp.	-10° C to +50° C	
Vibration & shock	Vibration 7G (20-2000 Hz), Shock 70G	
Size (W X H X L)	45.8mm x 39.4mm x 66.3mm 1.81" x 1.54" x 2.60"	
Weight	157g (5.6 oz.)	
Power cable	12P-02 (optional)	
Power supply	PD-12, K25-12V, DC-12N	P-15-12
Functional options	3-1, 3-2 ,7-2, 21, 25	
Accessories	See current price list	

Dimensions (mm)







Shutter Speeds

Manual Shutter Control

Mode	Shutter Speed	
0	1/60	No Shutter
1	1/125	131H
2	1/250	63H
3	1/500	31H
4	1/1,000	16H
5	1/2,000	8H
6	1/4,000	4H
7	1/10,000	1.5H
8	N/C	
9	N/C	

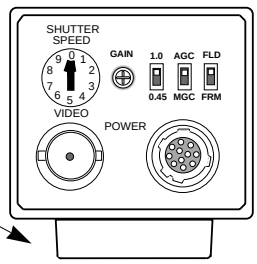
Note:

Mode 0 = Normal Mode; Mode 1-4 = Fast mode;
Mode 5-7 = Slow Mode; Mode 8 is same as Mode 0;
Mode 9 is same as Mode 1.

One (1) H = 63.5µsec. (TM-200 only)

Note: Use correct size adjustment tools when changing shutter speed and gain setting to avoid damaging adjustment devices.

Camera mounting pad also can be positioned on the top or bottom of the camera.



Rear Panel

TM-200/TM-300

Product made in the USA

In Japan
Takenaka System Co. Ltd.
2-1, Shinomiya Narano Cho
Yamashina-ku, Kyoto, 607-8032
Tel: 075-593-9787
Fax: 075-593-9790

In Australia
PULNiX America Inc.
Unit 16, #35 Garden Road
Clayton, Vic 3168
Tel: 3-9546-0222
Fax: 3-9562-4892

In the U.K.
PULNiX Europe Ltd.
Aviary Court, Wade Road
Basingstoke, Hants RG24 8PE
Tel: 01256-475555
Fax: 01256-466268

In Germany
PULNiX Europe Ltd.
Steinbruch 5
63755 Alzenau
Tel: 06023-9625-0
Fax: 06023-4667

ISO-9001 Cert. #A3942 RVC

PULNiX

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