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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

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Custom engineering
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- Critical and expedited services
- In stock / Ready-to-ship
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Expert team | Trust guarantee | 100% satisfaction

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TM-745i/TM-765i

Monochrome Interlaced Scan CCD

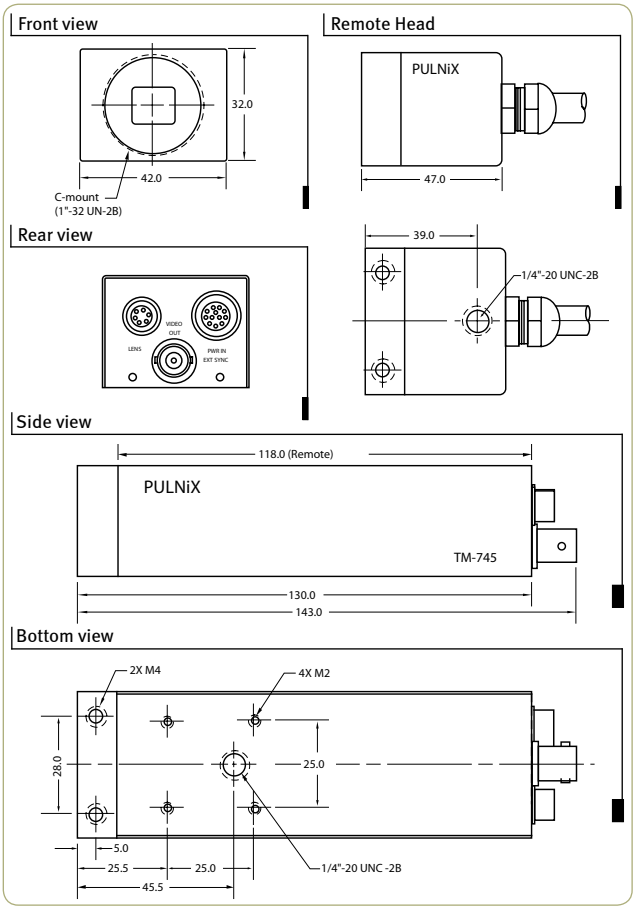


- *2/3" high resolution HAD type interline transfer CCD*
- *768 (H) x 493 (V) resolution (EIA)*
- *756 (H) x 581 (V) resolution (CCIR)*
- *Fully automatic exposure control*
- *Low light sensitivity (0.5 lux)*
- *Smearless shutter 1/60 to 1/10,000 sec.*
- *Full frame integration and asynchronous reset*
- *External sync, interlace, non-interlace auto select*
- *Excellent S/N ratio (>50 dB)*

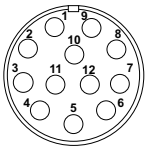
Specifications for TM-745i/TM-765i

Specifications	TM-745i	TM-765i
Sensor	2/3" interlaced scan IT CCD, HAD type	
	ICX422AL	ICX423AL
Active pixels	768 (H) x 493 (V)	756 (H) x 581 (V)
Cell size	11 µm x 13 µm	11 µm x 11 µm
Scanning	525 lines 60 Hz 2:1 interlaced	625 lines 50 Hz 2:1 interlaced
Synchronization	Internal sync/external auto switch HD/VD: 4.0 Vp-p, 4.7k Ω VD = interlaced/non-interlaced	
	HD = 15.734KHz ±5%	HD = 15.625KHz ±5%
TV resolution	570 x 350 TV lines	560 x 420 TV lines
S/N ratio	>50 dB	
Sensitivity	0.3 lux f=1.4 without IR cut filter	
Video output	1.0 Vp-p composite video, 75 Ω	
AGC	ON/OFF (default)	
Gamma	0.45 /1.0 (default)	
Lens mount	C-mount standard	
Power	12V DC, 350 mA	
Operating temperature	-10° C to 50° C	
Vibration	7 Grms (10 Hz to 2000 Hz) Random	
Shock	70 G, 11 ms, half-sine	
Dimensions (H x W x L)	32 mm x 42 mm x 130 mm	
Weight	200 g	

Dimensions

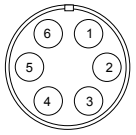


Connector Pin-outs



12-Pin Connector

1	GND	7	VD in
2	+12V	8	GND
3	GND	9	HD in
4	Video	10	N/C
5	GND	11	Int. cont.
6	Vinit	12	GND



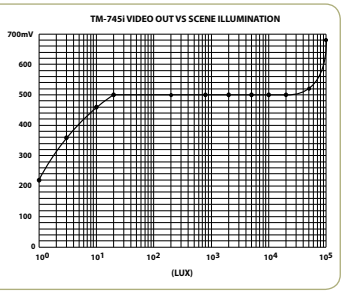
6-Pin Connector

1	D2
2	GND
3	Video
4	+12V (or 5V)
5	Do
6	D1

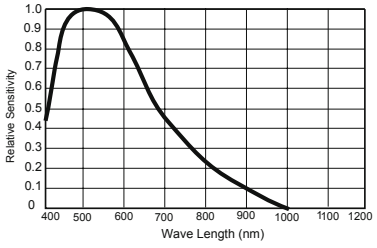
Do, D1, D2 Shutter control

Automatic Shutter

Automatic shuttering is controlled by a special CPU in the camera which adjusts for optimal picture level based on the video signal. This eliminates the need for costly and bulky auto iris lenses. All shuttering is activated electronically with no moving parts involved. The full shutter range from 1/60 sec. to 1/31,000 sec. is utilized.



Spectral Response



Ordering Information

Camera	
Lead Processing	TM-745i (EIA), TM-765i (CCIR)
RoHS Compliant	RM-745i (EIA), RM-765i (CCIR)
Optional Functions	
AGC Disable	OP1-1
Internal IR Filter Added	OP3-1
Optical Filter Removal	OP3-2
Gamma Adjust to 0.45	OP4-2
Pixel Clock Output	OP7-2
Remote Head w/1-meter cable	OP10-1
Sony Pinout	OP25
Frame Mode Set	OP60
DC-Coupled Analog Output	OP72
Optional Accessories (MUST BE ORDERED SEPARATELY)	
Power Cable	12P-02S
Power Supply	PD-12U series
Auto Iris Connector	PC-6P

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