TM-1327 GE / TMC-1327 GE

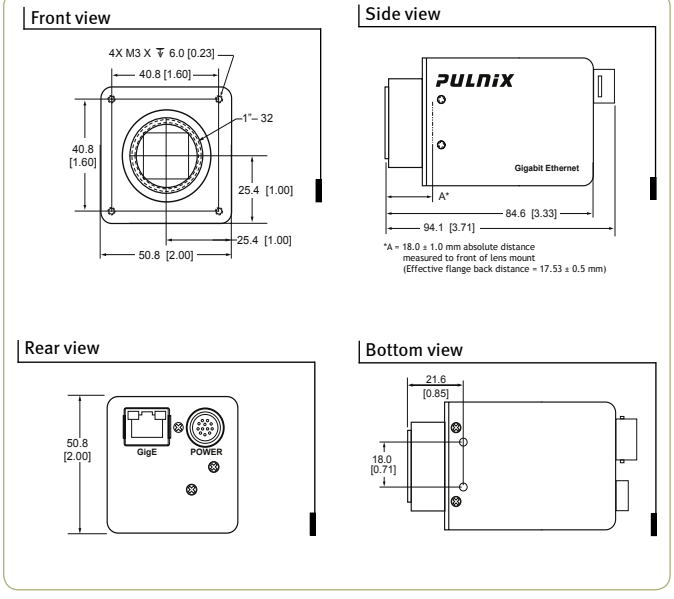
Progressive Scan CCD

- *2/3" progressive scan IT CCD (ICX285AL/ICX285AQ)*
- *1392(H) x 1040(V) @ 30 fps*
- *6.45 µm square pixels*
- *Compact 51 x 51 x 85 mm housing*
- *High speed point-to-point connection, up to 1Gbps*
- *Gigabit Ethernet output (8-bit/10-bit selectable)*
- *Maximum dynamic range control through built-in look-up table (8-bit only)*
- *User-definable variable partial scan*
- *Full-frame shutter to 1/21,000 sec.*
- *Asynchronous reset, no-delay shutter*
- *High gain CCD output and near IR sensitivity*
- *Extensive software developer's kit (SDK)*
- *Monochrome or color*

Specifications for TM-1327GE/TMC-1327GE

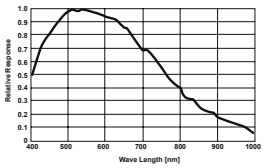
Specifications	TM-1327GE/TMC-1327GE
Sensor	2/3" progressive scan interline transfer CCD
Active area	8.98mm x 6.71mm
Active pixels	1392 (H) x 1040 (V)
Cell size	6.45 µm x 6.45 µm
Readout mode	1392 (H) x 1040 (V) @ 30 Hz User-definable partial scan
Synchronization	Internal/External auto switch HD/VD, 4.0 Vp-p impedance 4.7K Ω VD= 30 Hz ± 5%, non-interlace HD=31.59 kHz ± 5%
Pixel clock	55.00 MHz
S/N ratio	>52 dB
Sensitivity Mono Color	0.4 lux f=1.4 (no shutter) @ 30 fps, 3.2 lux f=1.4 (no shutter) @ 30 fps,
Video output	Gigabit Ethernet (8-bit/10-bit)
Color (RMC/TMC-1327 only)	Raw Bayer output for host-based interpolation
Gamma	Programmable LUT (Gamma 1.0 std)
Shutter speed (programmable)	1/30 to 1/21,000 in increments of 31.65 µs
Lens mount	C-mount (use >2/3" format lenses)
Power	12V DC ± 10%, 430 mA (typical at 25° C)
Operating temperture	-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)	51 mm x 51 mm x 85 mm
Weight	212 g (without tripod)

Dimensions

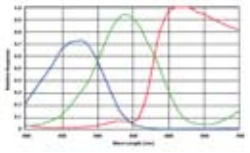


Spectral Response

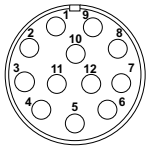
TM-1327GE (monochrome)



TMC-1327GE (color)



Connector Pin-out



12-Pin Connector

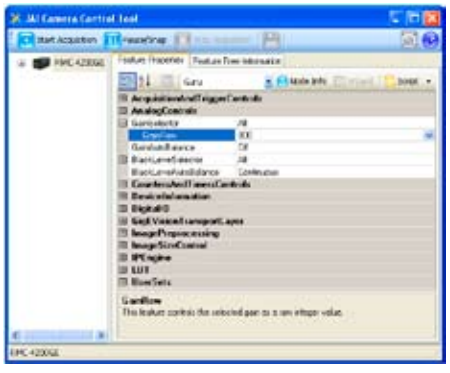
1	GND (power)	7	VD in
2	+12V	8	Strobe out
3	GND (analog)	9	HD in
4	Video out	10	Reserved
5	GND (digital)	11	Reserved
6	VINIT in	12	Reserved

GUI Interface

This camera can interface with any GigE Vision compliant software and hardware. The JAI SDK is provided to allow users to control various camera functions including:

- Exposure control for free running, triggered, and pulse width control.
- Gain and black Level
- Save settings
- Load settings
- LUT control to maximize dynamic range
- Scan mode selection.
- Pulse generators

The SDK provides functions for controlling image capture, as well as easy interfaces for setting camera functions and an API for .NET and C++ interfaces. CPU usage can be kept low via the JAI GigE Vision Filter Driver.



Ordering Information

Camera	
Lead Processing	TM-1327GE (mono), TMC-1327GE (color)
RoHS Compliant	RM-1327GE (mono), RMC-1327GE (color)
Optional Functions	
Internal IR Cut Filter Added	OP3-1
Optical Filter Removal	OP3-2 (color only)
Configure to 15 fps	OP7-5
Optional Accessories (must be ordered separately)	
Tripod Adapter Kit	TP-20
Power Cable	12P-02S
Power Supply	PD-12UUP series (includes power connector)

Europe, Middle East & Africa
Phone +45 4457 8888
Fax +45 4491 3252

Asia Pacific
Phone +81 45 440 0154
Fax +81 45 440 0166

Americas
Phone (Toll-Free) 1 800 445 5444
Phone +1 408 383 0300

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