

High-Speed, GigE Vision™ Cameras
In Color and Monochrome Versions



Key Features

GigE VISION™ INTERFACE: GiantDragon™ cameras comply with the GigE Vision™ interface standard. Cameras transfer 1Gbps, 10bit and non-compressed image data at speeds up to 90 frames per second over Gigabit Ethernet interface. GiantDragon cameras are compatible with standard Gigabit Ethernet hardware and cables (Cat5e or Cat6) up to 100 meters.

NINE VERSIONS AVAILABLE: To meet the needs of system integrators and OEMs GiantDragon cameras come in nine color and monochrome models, ranging from VGA to UXGA resolution. Housings for each camera are identical, measuring a compact 44mm x 29mm x 70mm (W X H x D) and utilizing C-mount lenses, allowing for easy integration and interchanges.

HIGH PERFORMANCE FEATURES: Designed for high performance in a range of applications, GiantDragon cameras feature progressive scan, Region of Interest readout (partial scan), shock/vibration resistance, random shutter mode, and RoHS compliance.

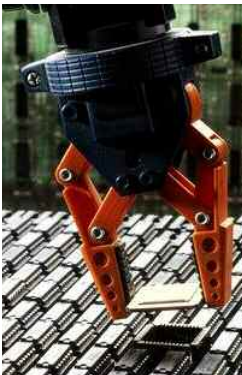
SDK AND VIEWER SOFTWARE Download TeliDCAM™ software at www.toshiba-teli.com.



GiantDragon

CAMERA SPECIFICATIONS

MODEL (B/W)	CSGV90BC3	CSGX36BC3	CSGS20BC2	CSGU15BC18	CSGS30BC23
MODEL (COLOR)	CSGV90CC3	CSGX36CC3	CSGS20CC2	CSGU15CC18	
Resolution	VGA	XGA	SXGA	UXGA	SXGA
H x V	640 x 480	1024 x 768	1280 x 960	1600 x 1200	1360 x 1024
Frame Rate	90 fps	36 fps	20 fps	15 fps	30 fps
CCD Sensor Size	1/3	1/3	1/2	1/1.18	2/3
Pixel Size	7.4µm x 7.4µm	4.65µm x 4.65µm	4.65µm x 4.65µm	4.40µm x 4.40µm	6.45µm x 6.45µm
Scanning System	Progressive				
Sync	Internal Sync				
Aspect Ratio	4:3				
Gain	0 - +12 dB (91 steps), default setting 0 db				
Gamma	OFF (1.0 fix)				
Set Up Level	6.3% - 25% (192 steps), default setting 6.3%				
Power	DC12V				
Mount	C mount				
Dimensions	44mm (W) x 29mm (H) x 70mm (D), (1.73-inch x 1.14-inc x 2.75-inch)				
Cable Length	Up to 100 meters				
GigE Vision/GenIcam Compliant	Yes				
RoHS Compliant	Yes				
Software Driver	Teli DCAM software (driver + viewer + SDK)				



Typical Applications

Video image capture applications for the GiantDragon cameras include high-speed machine vision, factory automation, robotics, inspection, scientific and many others.

RJ45 CONNECTOR

Gigabit Ethernet interface connector RJ-45 model: P65-P01-19V8 (SpeedTech)

Pin Number	I/O	Function
1	I/O	BI_DA+
2	I/O	BI_DA-
3	I/O	BI_DB+
4	I/O	BI_DB-
5	I/O	BI_DC+
6	I/O	BI_DC-
7	I/O	BI_DD+
8	I/O	BI_DD-

POWER & TRIGGER CONNECTOR

Power and Trigger connector model: HR10A-7R-6PB(73)

Pin Number	Signal
1	GPIO0
2	GND
3	GND
4	TRIG_IN
5	GPIO1
6	+12V

What is the GigE Vision™ standard?

GigE Vision is a camera interface standard developed by the Automated Imaging Association (AIA) using the Gigabit Ethernet protocol. GigE Vision hardware and software from different vendors interoperate, including low cost Cat5e and Cat6 cables up to 100 meters, for easier integration. The high bandwidth permits uncompressed files to be transferred in real time. It is a highly scalable interface, ready for the future adoption of 10GigE.



TOSHIBA TELI CORPORATION

7-1, 4-chome Asahigaoka
Hino-shi, Toyko 191-0065 Japan
TEL: +81-042-589-8771
FAX: +81-042-589-8774
www.toshiba-teli.co.jp

TOSHIBA TELI AMERICA, INC.

33 Hammond
Irvine, California 92618 USA
TEL: +1-949-770-TELI(8354)
FAX: +1-949-206-0210
www.toshiba-teli.com

