

PRODUCT SPECIFICATION SHEET

# HT-20000 ULTRA-HIGH SPEED 10GigE 20 MEGAPIXEL CAMERA



The **HT-20000** is the new standard in **Ultra Fast** high speed imaging for industrial vision applications. Capable of 32 fps at 20 megapixels, the HT-20000 is a breakthrough for the industry. With a global shutter and 10GigE interface—a world first for the vision industry—the HT-20000 sets unparalleled benchmark performance.

The 10GigE interface is GenICam and GigE Vision compatible with the added benefit of a single connection using a 10GBaseT interface for standard CAT6A or CAT7 up to 100m.

The HT-20000 is available in either monochrome or color utilizing a 35mm image format allowing for an extensive selection of optics, making the HT-20000 **Ultra-Flexible** to meet challenging industrial imaging applications.



## APPLICATIONS

- Diagnostic Analysis
- Semiconductor
- Food and Beverage
- Automotive
- Medical Imaging
- Entertainment

FEATURE	BENEFITS
Ultra Fast, High Resolution	Increase production while maximizing resolution. Great for discerning defects at a very high throughput rate.
10 GigE interface	Increased bandwidth, capable of high resolution and high frame rate or more than one camera through a single connection. Reduced power consumption and more cost efficient than GigE.
On-board algorithms	Reduces host CPU requirements.
Global Shutter	High resolution CMOS sensor with global shutter to ensure zero smearing at ultra-high speeds.
High Sensitivity	Perfect for low light imaging applications.
Flexible Exposure/Integration Control	Optimize integration of a wide range of lighting conditions; Match integration time with lighting control for maximum benefit.
External Sync and Trigger	Tight synchronization with I/O control, external PLCs, lighting and shutters
Industry Compliant	GigE Vision and GenICam compliant to minimize development time for existing SW application



# HT-20000 PRODUCT SPECIFICATION SHEET-P2

## CAMERA DETAILS

Light Sensitive Pixels	5120 x 3840
Exposure/Integration	10us—1s
Sensor	35mm CMOSIS CMV20000
Pixel Size	6.4um (square)
Frame Rate	32 fps
Dynamic Range	60 dB
Optical Format	52mm, M52x1.5x12mm BFL,F-mount Avail
Triggering	Software, External (Pulse or Edge)
Digital Output	8, 10 bit
Interface	10GigE 10GBaseT
Monochrome Modes	Mono8, Mono10
Color Modes	RGB8, YUV411, YUV422, YUV444 BGR8
Raw Modes	BayerRG8, BayerRG10
Frame Buffer	5 frames (8bpp, Full Frame)
Onboard Algorithm Support	On Request
Memory	250MB DDR2, 125MB NOR FLASH
Operating System	Windows 7/8, Linux (eCapture, eSDK)
Dimensions	95 x 58 x 60 mm (w/o F-mount)
Weight	350g
Power Requirements	11W, 12V, Includes Heatsink
Operating Temperature	0 — 45C
Storage Temperature	-30 to +60C
Compliance	CE, FCC, RoHS, WEEE, GigE Vision, GenICam
Testing	HALT, HASS, EMVA1288
Warranty	2 Years

## MODELS

includes: HT-20000,  
eCapture Software, and  
eSDK.

### Monochrome

Part #: HT-20000-M

### Color

Part #: HT-20000-C

## SOFTWARE

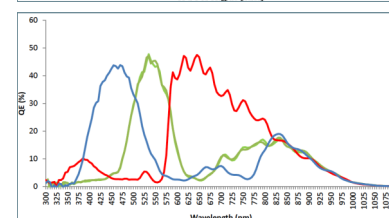
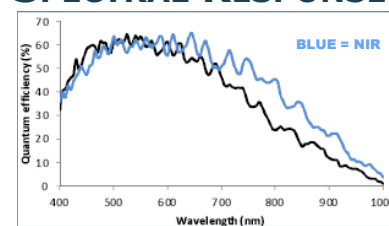
### eCapture

Capture Viewer Software with new  
features being added all the time.

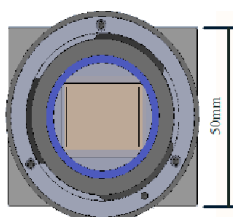
### eSDK

Software Developers Kit for easy  
integration into your application.

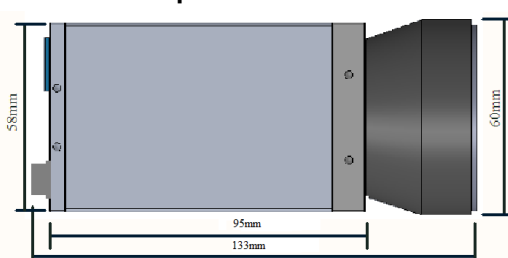
## SPECTRAL RESPONSE



Front View Dimensions



Top View Dimensions



**CONTACT US  
TODAY**  
To discover the  
power of the  
HT-20000