



Xi'an Gatherstar Optoelectronic System Co.,Ltd

Room 304, Building 2, Yihengtailai Science and Technology Industrial Park, southeast corner of Biyuan 3rd Road and Shanglinyuan 9th Road, High-tech Zone, Xi'an, China
www.gatherstarhk.com

GS-SW6401715150-C1-SG-CL Laser Spot Tracking Camera



GS-SW6401715150-C1-SG-CL laser spot tracking camera has wide detection range and simple operation at the 0.9-1.7 μ m.

The resolution is 640x512, the maximum frame rate at full resolution can reach 150Hz, and quantum efficiency is over 80% at 1550nm. The thermoelectric cooling chip can well suppress the

dark current, thereby improving the image quality.

The camera can output Camera Link digital image and analog image at the same time, and the front cover is detachable, which is convenient for optical interface conversion. The camera is compact in structure and light-weighted, making it easy to integrate with various photoelectric systems.

The camera has a trigger input function for fast tracking synchronization. The frame rate can be increased in the ROI mode according to the requirements, and the onboard high-speed centroid extraction and position output functions are provided in different ROI modes.

Specifications

Model	GS-SW6401715150-C1-SG-CL
Detector type	InGaAs FPA
Spectral range	0.9 μ m ~ 1.7 μ m
Resolution	640 x 512
Pixel size	15 μ m
Active area	9.6mm x 7.68mm
Quantum efficiency	> 70% @ (1.0 μ m-1.6 μ m)
Pixel Operability	> 99.5%
Cooler type	TE1

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Maximum frame rate	150Hz@640 x 512
ROI	128x128@1800Hz/128x116@2000Hz customizable
Shutter type	Global shutter
Exposure time	1 μ s—1/frame
Digital output format	8/14bit camera link
Analog video output	PAL/NTSC
Onboard image processing	Auto/Manual Exposure; Auto/Manual Gain; Non-uniformity Correction; Pixels correction
Image function	Frame rate selection, synchronization method selection, contrast/brightness adjustment (manual), enhancement, test image, information saved, Cross indication.
Tracking accuracy	≤ 1 pixel
Tracking mode	centroid tracking
Tracking speed	$\nless 150\text{Hz}@640\times 512/\nless 1800\text{Hz}@128\times 128/$ $\nless 2000\text{Hz}@128\times 116$
Off-target output delay	$\nless 1\text{Hz}$
Communication Interface	RS422
Electrical interface	HR10
Digital interface	Mini Camera Link
Analog interface	SMA
External trigger port	RS422
Control interface	RS422
Power input	12V DC
Power consumption	$\nless 6\text{W}$ TEC off
Operation temperature	-40 $^{\circ}\text{C}$ ~ +55 $^{\circ}\text{C}$

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Storage temperature

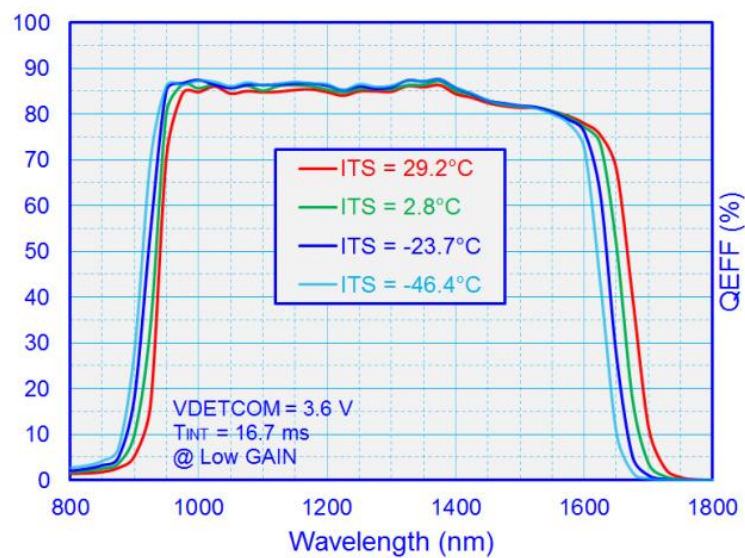
-50°C ~ +65°C

Analog display



Quantum Efficiency

QEFF Spectrum



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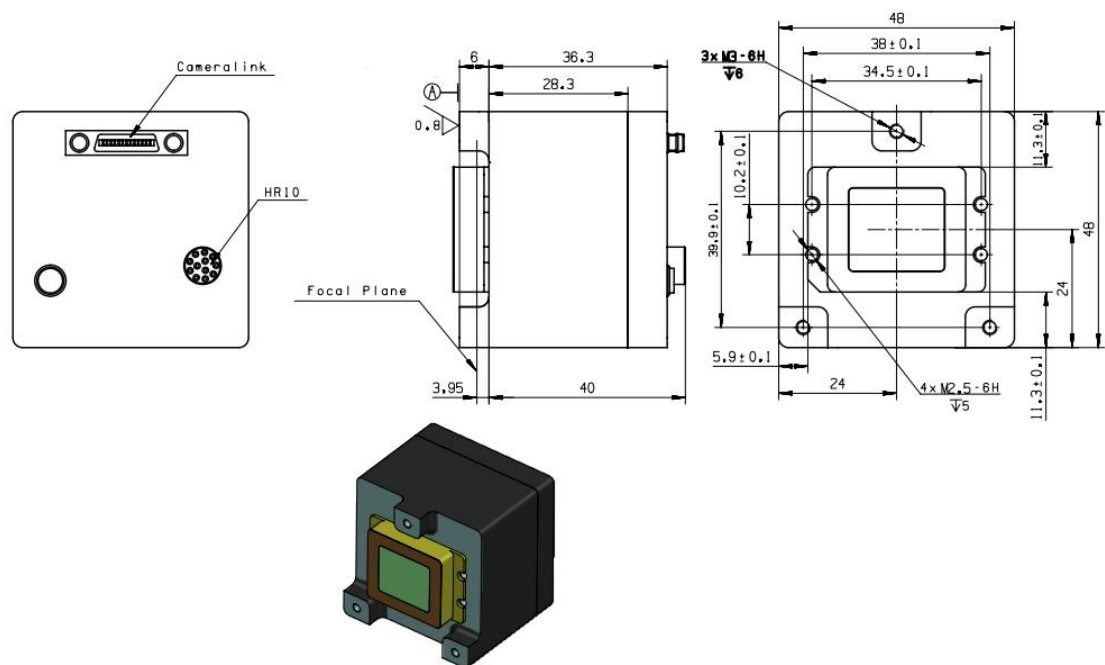
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Dimensions



Note: The specifications are for reference only, document is changed without notice.