

CÁMARA CMOS USB2.0 DE ROSCA C
C-MOUNT USB2.0 CMOS CAMERA
CAMÉRA CMOS USB2.0 À MONTURE C

REF. - CODE - RÉF. - HGB002, HGB004, HGB005



Este manual es parte inseparable del aparato por lo que debe estar disponible a todos los usuarios del equipo. Le recomendamos leer atentamente el presente manual y seguir rigurosamente los procedimientos de uso para obtener las máximas prestaciones y una mayor duración del mismo.

This manual should be available for all users of these equipments. To get the best results and a higher duration of this equipment it is advisable to read carefully this manual and follow the processes of use.

Ce manuel est une partie indissociable de l'appareil et doit être mis à la disposition de tous les utilisateurs de l'équipement. Nous vous recommandons de lire attentivement ce manuel et de suivre scrupuleusement les procédures d'utilisation afin d'obtenir des performances maximales et une plus longue durée de vie de l'appareil.

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1. C-MOUNT USB2.0 CMOS CAMERA

1.1.1 Basic Characteristics

- Standard C-Mount camera with Sony or OnSemi CMOS sensor.
- USB2.0 interface ensuring high speed data transmission.
- Integrated with large capacity memory chip ensures data synchronous transmission, low latency, high frame rate and stability.
- Compatible with Microsoft USB Video Class protocol and support the third-party software development.
- Built in Ultra-fine hardware ISP engine ensures high color restoration.
- Support automatic/manual exposure switching, accurate exposure time control, and real-time adjustment of exposure target area.
- Support automatic/manual/ROI white balance.
- Support color adjustment/color mode selection/image flipping.
- Support histogram adjust/flat field correction/dark field correction/video ROI.
- High performance MJPEG compression algorithm, combined with the unique decoding method of ToupView and image restoration algorithm ensure highest frame rate of USB2.0 camera in the industry.
- Comply with CE and FCC regulations.
- CNC aluminum alloy housing.
- With advanced video & image processing application ToupView/ToupLite.
- Providing Windows/Linux/Mac OS multiple platforms SDK.



1.1.2 Technical Data

C: Color

Code	Sensor & Size (mm)	Pixel (μm)	G Responsivity Dynamic range SNR max	FPS/Resolution	Binning	Exposure
HGB002	2.1M/IMX307(C) 1/2.8" (5.73x4.3)	2.9x2.9	1300mV 73dB 43 dB	38@1920x1080 38@960x540	1x1 1x1	0.1-2000 ms
HGB004	5.1M/IMX335(C) 1/2.8" (5.18x3.89)	2.0x2.0	505mV 70dB 43dB	26@2592x1944 26@1280x960 26@640x480	1x1 1x1 1x1	0.1-2000 ms
HGB005	8,3M/IMX274(C) 1/2.5" (6.22x3.50)	1.62x1.62	236mV 70dB 43dB	30@3840x2160 30@1920x1080 30@1280x720 30@960x540	1x1 1x1 1x1	0.1-2000 ms

Other Specifications

Spectral Range	380-650nm (with IR-cut Filter)
White Balance	Auto/Manual/ROI White Balance/Manual Temp Tint Adjustment
Color Technique	Ultra-fine hardware ISP engine
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++ , C#/VB.NET, Python, Java, DirectShow, Twain, etc)
Data Interface	USB2.0
Data Format	MJPEG
Recording System	Still Picture and Movie
Cooling System	Natural

Operating Environment

Operating Temperature (°C)	-10~ 50
Storage Temperature (°C)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port

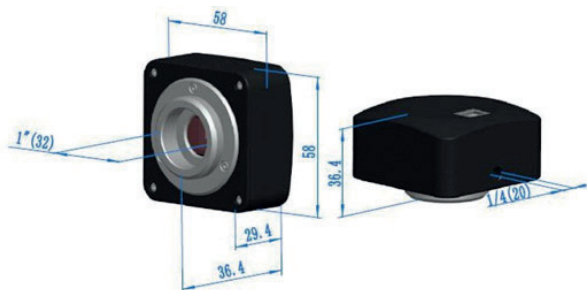
Software Environment

Operating System	Microsoft® Windows® XP / Vista / 7 / 8 / 10 / 11 (32 & 64 bit) OSx(Mac OS X)
PC Requirements	Linux
	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 2GB or more
	USB Port: USB2.0 High-speed Port
	Display: 17" or larger
	CD-ROM

1.1.3 Structure

The camera body, made from tough, aluminum alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high-quality IR-CUT to protect the camera sensor. No moving parts included. This design ensures a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.

Dimensions



1.1.4 Packing Information



Standard Packing List

A	Carton L:52cm W:32cm H:33cm (20pcs, 12~17kg/ carton), not shown in the photo
B	Camera box L:15cm W:15cm H:10cm (0.5~0.55kg/ box)
C	One camera
D	High-speed USB2.0 A male to B male gold-plated connectors cable /2.0m
E	CD (Driver & utilities software, Ø12cm)