

USB3.0 Area Scan Cameras

MV-032UC721-GS



- Ultra-small size, industry-universal fixing holes
- Low power consumption, strong stability
- Built-in large-capacity image cache to ensure reliable and real-time transmission.

USB3.0 Area Scan Cameras

Key Features

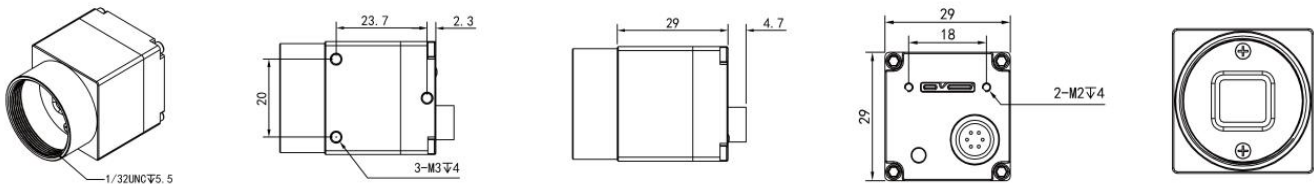
- Small volume, 40 grams ultra light weight, industry general fixed hole.
- It conforms to USB3.0 ultra-high speed communication protocol, and the maximum speed is 440MByte/s.
- Built-in large capacity frame buffer, real-time transmission is stable and reliable.
- Ultra-low power consumption has strong stability, and the typical power consumption is less than 2W.
- Third party visual development software, based on USB3.0Vision,GenICam development.
- Compatible with HALCON,LabView,OpenCV, etc.
- Camera hardware graphics accelerator implements image preprocessing.
- Dimensions: 29mm×29mm×29mm

Specifications

Model Parametric	MV-032UC721-GS
	Color USB3.0 Industrial Camera
Sensor Type	Global shutter
Minimum ROI	144x8, minimum step:8
Pixel Size	4.0um
Sensor Optical Size	1/5"
Resolution	640x480
Mono/Color	Color
Max Frame Rate	721FPS
Dynamic Range	60db
SNR	40db
Bit depth	10bit
Gain	1x ~ 3 x, step 0.125x
Exposure Time	5us-43ms
Area of photosensitive	2.56mmx1.92mm
Output image format	RAW8、RAW16、BGR24、MONO8、MONO16
Support format	RAW、BMP、JPG、PNG
Trigger Mode	Hardware Trigger, Software Trigger
Spectral response	390nm-650nm
Sensitivity	8V/Lux.S
Picture size	640x480
Data Interface	USB3.0 interface

Power supply	USB5V power supply
Typical Power Consumption	Working: 1.64W, standby: 1.12W
Lens Interface	C-Mount
Overall Dimension	29mmx29mmx29mm
Weight	40g
IP Protection Rating	IP30
Operating Temperature	-10℃ ~50℃
Compatibility	USB3.0Vision, GenICam, HALCON, LabView, OpenCV
Certifications	CE, FCC, RoHS

Dimension (unit: mm)



Interface Definition

Pin	Color	Definition	Signal Source	Description	Isolated/non-isolated	Interface Circuit	Input/Output Parameters
1	Red	GPO+	Line 3+	Universal Output Positive	Isolated Outputs	Optocoupler	Optocoupler current limit: 20mA With polarity
6	Black	GPO-	Line 3-	General purpose output negative			
2	Green	TRIG+	Line 1+	TRIG input positive	Isolated Inputs	Optocoupler	Low effective: 0-1V High effective: 5-24V Polarity
3	White	TRIG-	Line 1-	TRIG input negative			
4	Yellow	Flash_out+	Line 2+	Flash output positive	Isolated Output	Optocoupler	Optocoupler current limit: 20mA With polarity
5	Brown	Flash_out-	Line 2-	Flash output negative			
	Trans parent	shielding cable		Connecting the camera housing			Remarks: Transparent heat-shrinkable tubing for shielded wire cover

Trigger Block

