# Machine Vision Solutions

***Machine Vision***

### w w w . i ei w or l d .c om

**HSC-03M2-O**

### *Lightweight USB 3.0 Camera, Micron MT9V022 CMOS, Global Shutter, 60* FPS at 752x480, without Lens

**Demo Codes Provided**

)

Open eVision

(Euresys)

Open CV

(Open Source

MIL

(Matrox)

***7/8.1/10***

Windows

# *Features*

***32/64***Bit

***USB 3.0***

## HSC-03M2-O

**USB 3.0 High Speed C**

**amera**

Capture Card

= +

Camera

* IEI Vision SDK available

Camera Lens (option)

* Compact and lightweight industrial camera with Aptina global shutter CMOS sensor
* Compatible with USB 3.0 SuperSpeed specification
* Resolutions up to 752x480
* Frame rates up to 60 FPS
* Support AMCap and other DirectShow compatible software
* Other commercial vision software supported through DirecShow, ex: Halcon
* IEI Similarity technology can provide image enhancement

# *Specifications*

Camera

|  |  |
| --- | --- |
| Resolution (max.) | 752 x 480 |
| Frame Rate (max.) | 60 FPS |
| Megapixels | 0.3 MP |
| Chroma | Mono |
| Sensor Name | Micron MT9V022 |
| Sensor Type | CMOS |
| Readout Method | Global shutter |
| Sensor Format | 1/3-inch |
| Pixel Size | 6.0 µm |
| Lens Mount | CS-mount |
| ADC | 8-bit/10-bit |
| Auxiliary Output | 3.3 V, 100 mA max |
| Interface | USB 3.0 interface |
| Mass | 79g |
| Compliance | CE, FCC |

Invalid

####  Machine Vision Application Examples

Determine gap

Crooked

***Dimensions (Unit: mm)***

System Requirement

|  |  |
| --- | --- |
| System | Intel® Core™ i5 or above |
| Memory | 2GB or more |

Software Support



57



***Packing List***

8

#### HR25

LED USB 3.0

29

screw M2

29

18

|  |  |
| --- | --- |
| OS Support | Microsoft Windows 7/8.1/10 (32-bit/64-bit)Operating systems that support UVC |
| SDK | Windows: Provides SDK and demo program withsample source code |

|  |  |
| --- | --- |
| 1 x HSC-03M2-O | 1 x CS to C mount adapter |
| 1 x Mounting bracket | 1 x QIG |

Others

|  |  |
| --- | --- |
| Dimensions (mm) | 58.9 mm x 29 mm x 29 mm |
| Operating Temperature | 0°C ~ 45°C |
| Storage Temperature | -30°C ~ 60°C |
| Operating Humidity | 20% ~ 80% |
| Storage Humidity | 20% ~ 95% |
| Power Requirements | 5V via external connector or USB 3.0 |
| Power Consumption (max.) | <3.5W |

# *Ordering Information*

|  |  |
| --- | --- |
| Part No. | Description |
| HSC-03M2-O-R10 | Lightweight USB 3.0 camera & opto-isolated, Micron MT9V022 CMOS, global shutter, 60 FPS at 752x480, without Lens |
| 32001-019800-100-RS | USB 3.0 cable, 1800 mm, USB 3.0 A type male and micro USB3.0 B type male+screw |

Note: IEI does not offer Open eVision and MIL software licenses. Please buy the original



HSC-03M2-O-2017-V10

version from their vendors.