

# Our Products

## Top Selling Chinese Industrial Digital Cameras !



Total Sales , by the end of 2016

# 250,000+



The Mercury family CCD/ CMOS cameras target at industrial machine vision applications, the Mercury family cameras are covered with full metal case and equipped with cable locking devices. Thanks to compact size and light weight, the Mercury family cameras can be easily deployed under various industrial circumstances or integrated into automatic devices like robot arms to accomplish machine vision tasks like locating, measuring, defect detecting, object recognizing, etc.

With the MER series, you can choose from the most popular data interfaces in the vision market: the popular Gigabit Ethernet interface with 100-meter cable length, the new USB 3.0 interface with plug and play capability, and the USB2.0 Interface with plug and play capability. All Daheng MER cameras come with an option to provide camera power and data via a single cable. They also offer separate input/output ports for triggering or flash control. The Mercury family comes with a long list of firmware features.

- Ultra small, light and robust
- One input and one output with opto-isolated, two programmable GPIO
- Support Gigabit Ethernet, USB3.0, USB2.0
- A wide range of models available, support various CCD and CMOS sensors
- Meet CE, RoHS standards
- Support GigE Vision, USB3 Vision, GenICam and third-party software like HALCON and Labview

## MER-U3x

\* = preliminary

Model	Interface	Resolution(H×V)	Frame Rate	Sensor	Pixel Size	Mono/ Color
MER-031-860U3M/C	USB3.0	640 × 480	860 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-031-860U3M NIR	USB3.0	640 × 480	860 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8μm × 4.8μm	Mono NIR
MER-050-560U3M/C	USB3.0	800 × 600	560 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-050-560U3M NIR	USB3.0	800 × 600	560 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8μm × 4.8μm	Mono NIR
MER-131-210U3M/C	USB3.0	1280 × 1024	210 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-131-210U3M NIR	USB3.0	1280 × 1024	210 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono NIR
MER-132-43U3M/C	USB3.0	1292 × 964	43 fps	1/3" CCD	3.75μm × 3.75μm	Mono/ Color
MER-133-54U3M/C	USB3.0	1280 × 960	54 fps	1/3" ON AR0135 global shutter CMOS	3.75μm × 3.75μm	Mono/ Color
MER-134-93U3M/C	USB3.0	1280 × 1024	93fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-230-168U3M/C	USB3.0	1920 × 1200	168 fps	1/1.2" SONY IMX174 global shutter CMOS	5.86μm × 5.86μm	Mono/ Color
MER-231-41U3M/C	USB3.0	1920 × 1200	41 fps	1/1.2" SONY IMX249 global shutter CMOS	5.86μm × 5.86μm	Mono/ Color
MER-301-125U3M/C	USB3.0	2048 × 1536	125 fps	1/1.8" SONY IMX252 global shutter CMOS	3.45μm × 3.45μm	Mono/ Color
MER-500-14U3M/C	USB3.0	2592 × 1944	14 fps	1/2.5" ON MT9P031/ MT9P006 rolling shutter CMOS	2.2μm × 2.2μm	Mono/ Color
MER-502-79U3M/C	USB3.0	2448 × 2048	79 fps	2/3" SONY IMX250 global shutter CMOS	3.45μm × 3.45μm	Mono/ Color
MER-503-36U3M/C	USB3.0	2448 × 2048	36 fps	2/3" SONY IMX264 global shutter CMOS	3.45μm × 3.45μm	Mono/ Color
MER-530-74U3M/C *	USB3.0	2592 × 2048	74 fps	1" ON PYTHON 5000 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-1070-14U3M/C	USB3.0	3856 × 2764	14 fps	1/2.3" ON MT9J003 rolling shutter CMOS	1.67μm × 1.67μm	Mono/ Color
MER-1520-13U3C	USB3.0	4608 × 3288	13 fps	1/2.3" ON MT9F002 rolling shutter CMOS	1.4μm × 1.4μm	Color
MER-1810-21U3C	USB3.0	4912 × 3684	21 fps	1/2.3" ON AR1820 rolling shutter CMOS	1.25μm × 1.25μm	Color

## Mechanical Specifications

Weight	57g
Dimensions	29mm × 29mm × 29mm

## Environmental Specifications

Operating temp.	0°C ~ +45°C
Operating humidity	10% ~ 80%
Storage temp.	-20°C ~ +70°C

## Electrical Specifications

Power requirement	5 VDC (USB3.0)
I/Os	Opto-isolated 1in/1out, 2 GPIOs
Data interface	USB3.0 with locked
Power consumption	<2.5W @ 5VDC

## Optical Specifications

Lens mount	C / CS
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# Our Products

## MER-U3x-L

\*= preliminary

Model	Interface	Resolution(H×V)	Frame Rate	Sensor	Pixel Size	Mono/ Color
MER-031-860U3M/C-L	USB3.0	640 × 480	860 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-031-860U3M-L NIR	USB3.0	640 × 480	860 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8μm × 4.8μm	Mono NIR
MER-050-560U3M/C-L	USB3.0	800 × 600	560 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-050-560U3M-L NIR	USB3.0	800 × 600	560 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8μm × 4.8μm	Mono NIR
MER-131-210U3M/C-L	USB3.0	1280 × 1024	210 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-131-210U3M-L NIR	USB3.0	1280 × 1024	210 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono NIR
MER-132-43U3M/C-L	USB3.0	1292 × 964	43 fps	1/3" CCD	3.75μm × 3.75μm	Mono/ Color
MER-133-54U3M/C-L	USB3.0	1280 × 960	54 fps	1/3" ON AR0135 global shutter CMOS	3.75μm × 3.75μm	Mono/ Color
MER-134-93U3M/C-L	USB3.0	1280 × 1024	93fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-230-168U3M/C-L	USB3.0	1920 × 1200	168 fps	1/1.2" SONY IMX174 global shutter CMOS	5.86μm × 5.86μm	Mono/ Color
MER-231-41U3M/C-L	USB3.0	1920 × 1200	41 fps	1/1.2" SONY IMX249 global shutter CMOS	5.86μm × 5.86μm	Mono/ Color
MER-301-125U3M/C-L	USB3.0	2048 × 1536	125 fps	1/1.8" SONY IMX252 global shutter CMOS	3.45μm × 3.45μm	Mono/ Color
MER-500-14U3M/C-L	USB3.0	2592 × 1944	14 fps	1/2.5" ON MT9P031/ MT9P006 rolling shutter CMOS	2.2μm × 2.2μm	Mono/ Color
MER-502-79U3M/C-L	USB3.0	2448 × 2048	79 fps	2/3" SONY IMX250 global shutter CMOS	3.45μm × 3.45μm	Mono/ Color
MER-503-36U3M/C-L	USB3.0	2448 × 2048	36 fps	2/3" SONY IMX264 global shutter CMOS	3.45μm × 3.45μm	Mono/ Color
MER-530-74U3M/C-L *	USB3.0	2592 × 2048	74 fps	1" ON PYTHON 5000 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-1070-14U3M/C-L	USB3.0	3856 × 2764	14 fps	1/2.3" Onsemi MT9J003 rolling shutter CMOS	1.67μm × 1.67μm	Mono/ Color
MER-1520-13U3C-L	USB3.0	4608 × 3288	13 fps	1/2.3" Onsemi MT9F002 rolling shutter CMOS	1.4μm × 1.4μm	Color
MER-1810-21U3C-L	USB3.0	4912 × 3684	21 fps	1/2.3" ON AR1820 rolling shutter CMOS	1.25μm × 1.25μm	Color

### Mechanical Specifications

<b>Weight</b>	53g
<b>Dimensions</b>	29mm × 29mm × 29mm

### Environmental Specifications

<b>Operating temp.</b>	0°C ~ +45°C
<b>Operating humidity</b>	10% ~ 80%
<b>Storage temp.</b>	-20°C ~ +70°C

### Electrical Specifications

<b>Power requirement</b>	5 VDC (USB3.0)
<b>I/Os</b>	-
<b>Data interface</b>	USB3.0 with locked
<b>Power consumption</b>	<2.5W @ 5VDC

### Optical Specifications

<b>Lens mount</b>	C / CS
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## MER-Gx-P

\* = preliminary

Model	Interface	Resolution(H×V)	Frame Rate	Sensor	Pixel Size	Mono/ Color
MER-030-120GM/C-P	GigE	656 × 492	120 fps	1/4" Sony ICX618 CCD	5.6µm × 5.6µm	Mono/ Color
MER-031-300GM/C-P	GigE	640 × 480	300 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8µm × 4.8µm	Mono/ Color
MER-031-300GM-P NIR	GigE	640 × 480	300 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8µm × 4.8µm	Mono NIR
MER-032-120GM/C-P	GigE	656 × 492	120 fps	1/3" CCD	7.4µm × 7.4µm	Mono/ Color
MER-050-200GM/C-P	GigE	800 × 600	200 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8µm × 4.8µm	Mono/ Color
MER-050-200GM-P NIR	GigE	800 × 600	200 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8µm × 4.8µm	Mono NIR
MER-051-120GM/C-P *	GigE	808 × 608	120fps	1/3.6" ON PYTHON 480 global shutter CMOS	4.8µm × 4.8µm	Mono/ Color
MER-125-30GM/C-P	GigE	1292 × 964	30 fps	1/3" Sony ICX445 CCD	3.75µm × 3.75µm	Mono/ Color
MER-131-75GM/C-P	GigE	1280 × 1024	75 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8µm × 4.8µm	Mono/ Color
MER-131-75GM-P NIR	GigE	1280 × 1024	75 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8µm × 4.8µm	Mono NIR
MER-132-43GM/C-P	GigE	1292 × 964	43 fps	1/3" CCD	3.75µm × 3.75µm	Mono/ Color
MER-133-54GM/C-P *	GigE	1280 × 960	54 fps	1/3" ON AR0135 global shutter CMOS	3.75µm × 3.75µm	Mono/ Color
MER-200-20GM/C-P	GigE	1628 × 1236	20 fps	1/1.8" Sony ICX274 CCD	4.4µm × 4.4µm	Mono/ Color
MER-500-14GM/C-P	GigE	2592 × 1944	14 fps	1/2.5" ON MT9P031/ MT9P006 rolling shutter CMOS	2.2µm × 2.2µm	Mono/ Color
MER-503-20GM/C-P	GigE	2448 × 2048	20 fps	2/3" SONY IMX264 global shutter CMOS	3.45µm × 3.45µm	Mono/ Color
MER-504-10GM/C-P	GigE	2448 × 2048	10 fps	2/3" CCD	3.45µm × 3.45µm	Mono/ Color
MER-530-20GM-P NIR*	GigE	2592 × 2048	20 fps	1" ON PYTHON 5000 global shutter CMOS	4.8µm × 4.8µm	Mono NIR
MER-531-20GM/C-P *	GigE	2592 × 2048	20 fps	1" ON PYTHON 5000 global shutter CMOS	4.8µm × 4.8µm	Mono/ Color
MER-1070-10GM/C-P	GigE	3840 × 2748	10 fps	1/2.5" ON MT9J003 rolling shutter CMOS	1.67µm × 1.67µm	Mono/ Color
MER-1520-7GC-P	GigE	4608 × 3288	7 fps	1/2.5" ON MT9F002 rolling shutter CMOS	1.4µm × 1.4µm	Color

## Mechanical Specifications

<b>Weight</b>	75g
<b>Dimensions</b>	29mm × 29mm × 38.3mm

## Environmental Specifications

<b>Operating temp.</b>	0°C ~ +45°C
<b>Operating humidity</b>	10% ~ 80%
<b>Storage temp.</b>	-20°C ~ +70°C

## Electrical Specifications

<b>Power requirement</b>	12 VDC (8-PIN connector) or PoE
<b>I/Os</b>	Opto-isolated 1in/ 1out, 2 GPIOs
<b>Data interface</b>	RJ45 with locked
<b>Power consumption</b>	<3W @ 12VDC , <3.75W @ PoE

## Optical Specifications

<b>Lens mount</b>	C / CS
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## MER-Gx

\* = preliminary

Model	Interface	Resolution(H×V)	Frame Rate	Sensor	Pixel Size	Mono/ Color
MER-030-120GM/C	GigE	656 × 492	120 fps	1/4" Sony ICX618 CCD	5.6μm × 5.6μm	Mono/ Color
MER-031-300GM/C	GigE	640 × 480	300 fps	1/4" ON PYTHON 300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-032-120GM/C	GigE	656 × 492	120 fps	1/3" CCD	7.4μm × 7.4μm	Mono/ Color
MER-050-200GM/C	GigE	800 × 600	200 fps	1/3.6" ON PYTHON 500 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-125-30GM/C	GigE	1292 × 964	30 fps	1/3" Sony ICX445 CCD	3.75μm × 3.75μm	Mono/ Color
MER-130-30GM *	GigE	1280 × 1024	30 fps	1/2" ON MT9M001 rolling shutter CMOS	5.2μm × 5.2μm	Mono
MER-131-75GM/C	GigE	1280 × 1024	75 fps	1/2" ON PYTHON 1300 global shutter CMOS	4.8μm × 4.8μm	Mono/ Color
MER-132-30GM/C	GigE	1292 × 964	30 fps	1/3" CCD	Mono/ Color	Mono/ Color
MER-132-43GM/C	GigE	1292 × 964	43 fps	1/3" CCD	Mono/ Color	Mono/ Color
MER-200-14GM/C	GigE	1628×1236	14 fps	1/1.8" Sony ICX274 CCD	Mono/ Color	Mono/ Color
MER-200-20GM/C	GigE	1628 × 1236	20 fps	1/1.8" Sony ICX274 CCD	Mono/ Color	Mono/ Color
MER-231-41GM/C	GigE	1920 × 1200	41 fps	1/1.2" Sony IMX249 global shutter CMOS	Mono/ Color	Mono/ Color
MER-500-14GM/C	GigE	2592 × 1944	14 fps	1/2.5" ON MT9P031/ MT9P006 rolling shutter CMOS	Mono/ Color	Mono/ Color
MER-1070-10GM/C	GigE	3840 × 2748	10 fps	1/2.5" ON MT9J003 rolling shutter CMOS	Mono/ Color	Mono/ Color
MER-1520-7GC	GigE	4608 × 3288	7 fps	1/2.5" ON MT9F002 rolling shutter CMOS	Color	Color

### Mechanical Specifications

<b>Weight</b>	60g
<b>Dimensions</b>	29mm × 29mm × 29mm

### Environmental Specifications

<b>Operating temp.</b>	0°C ~ +45°C
<b>Operating humidity</b>	10% ~ 80%
<b>Storage temp.</b>	-20°C ~ +70°C

### Electrical Specifications

<b>Power requirement</b>	12 VDC (8-PIN connector)
<b>I/Os</b>	Opto-isolated 1in/1out, 2 GPIOs
<b>Data interface</b>	RJ45 with locked
<b>Power consumption</b>	<3W @ 12VDC

### Optical Specifications

<b>Lens mount</b>	C / CS
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## MER-Ux (-L)

Model	Interface	Resolution(H×V)	Frame Rate	Sensor	Pixel Size	Mono/Color
MER-030-120UM/C (-L)	Mini USB 2.0	656×492	120 fps	1/4" Sony ICX618 CCD	5.6μm × 5.6μm	Mono/ Color
MER-040-60UM/C (-L)	Mini USB 2.0	752×480	60 fps	1/3" global shutter CMOS	6.0μm × 6.0μm	Mono/ Color
MER-125-30UM/C (-L)	Mini USB 2.0	1292×964	30 fps	1/3" Sony ICX445 CCD	3.75μm × 3.75μm	Mono/ Color
MER-130-30UM (-L)	Mini USB 2.0	1280×1024	30 fps	1/1.8" rolling shutter CMOS	5.2μm × 5.2μm	Mono
MER-132-30UM/C (-L)	Mini USB 2.0	1292×964	30 fps	1/3" CCD	3.75μm × 3.75μm	Mono/ Color
MER-310-12UC (-L)	Mini USB 2.0	2048×1536	12 fps	1/2" rolling shutter CMOS	3.2μm × 3.2μm	Color
MER-500-7UM/C (-L)	Mini USB 2.0	2592×1944	7 fps	1/2.5" Onsemi MT9P031/MT9P006 CMOS	2.2μm × 2.2μm	Mono/ Color

## Mechanical Specifications

<b>Weight</b>	41g
<b>Dimensions</b>	29mm × 29mm × 29mm

## Environmental Specifications

<b>Operating temp.</b>	0°C ~ +60°C
<b>Operating humidity</b>	10% ~ 80%
<b>Storage temp.</b>	-20°C ~ +70°C

## Optical Specifications

<b>Lens mount</b>	C / CS
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## Electrical Specifications

<b>Power requirement</b>	5 VDC (USB2.0)
<b>I/Os</b>	Opto-isolated 1in/ 10ut -L series without I/O
<b>Data interface</b>	Mini USB type B
<b>Power consumption</b>	<2W (@ 5V DC)

