

Sensor Type	Interface	Max Resolution	Model		Optical Format	Pixel Size (µm)	Shutter Type	Frame Rate (fps) ^{※2}	SS	Direct X Compatible	NIR	ROI	I/O ^{※3}	LINUX	HALCON	
			Color	Monochrome												
CMOS	USB3.0	14.0 Mega Pixel	ARTCAM-1400MI-USB3	-	1/2.3"	1.4x1.4	Rolling Shutter	6	-	●	-	-	-	-	-	
		10.0 Mega Pixel	ARTCAM-1000MI-USB3	ARTCAM-1000MI-BW-USB3 ^{※1}	1/2.3"	1.67x1.67	Rolling Shutter	7.6	-	●	● ^{※1}	-	-	-	-	-
		5.0 Mega Pixel	ARTCAM-500MI-USB3	ARTCAM-500MI-BW-USB3	1/2.5"	2.2x2.2	Rolling Shutter	13.9	-	-	-	-	-	-	-	-
		2.0 Mega Pixel	ARTCAM-2000CMV-USB3	ARTCAM-2000CMV-BW-USB3	2/3"	5.5x5.5	Global Shutter	100	-	-	-	-	-	-	-	-
		14.0 Mega Pixel	ARTCAM-1400MI-WOM	-	1/2.3"	1.4x1.4	Rolling Shutter	3	-	-	●	-	-	-	-	-
	USB2.0	10.0 Mega Pixel	ARTCAM-1000MI-WOM	ARTCAM-1000MI-BW-WOM ^{※1}	1/2.3"	1.67x1.67	Rolling Shutter	4.4(2.2)	●	●	● ^{※1}	-	-	-	-	-
		5.0 Mega Pixel	ARTCAM-500MI-WOM	ARTCAM-500MI-BW-WOM	1/2.5"	2.2x2.2	Rolling Shutter	7.5(3.75)	●	●	●	-	-	-	-	-
		3.0 Mega Pixel	ARTCAM-300MI-WOM	ARTCAM-035IMX-WOM	1/2"	3.2x3.2	Rolling Shutter	12(6)	●	●	●	-	-	-	-	-
		1.3 Mega Pixel	ARTCAM-035IMX-WOM	ARTCAM-130MI-BW-WOM	1/3"	3.63x3.63	Rolling Shutter	30	-	-	●	-	-	-	-	-
		0.36 Mega Pixel	ARTCAM-036MI2-WOM	ARTCAM-036MI2-BW-WOM	1/2"	5.2x5.2	Rolling Shutter	30(15)	●	●	●	-	-	-	-	-
CCD	USB3.0	10.0 Mega Pixel	ARTCAM-1000MINI	ARTCAM-1000MINI-BW ^{※1}	1/2.3"	1.67x1.67	Rolling Shutter	2.2	-	-	-	-	-	-	-	
		0.36 Mega Pixel	ARTCAM-022MINI	ARTCAM-022MINI-BW	1/3"	6.0x6.0	Global Shutter	60	-	-	●	-	-	-	-	
		10.0 Mega Pixel	ARTCAM-1000MI-HD2	ARTCAM-1000MI-BW-HD2	1/2.3"	1.67x1.67	Rolling Shutter	-	-	-	-	-	-	-	-	
		5.0 Mega Pixel	ARTCAM-655KY-USB3	ARTCAM-655KY-BW-USB3	2/3"	3.45x3.45	Global Shutter	9	-	-	●	-	-	-	-	
		2.0 Mega Pixel	ARTCAM-274KY2-USB3	ARTCAM-274KY2-BW-USB3	1/1.8"	4.4x4.4	Global Shutter	25	-	-	●	-	-	-	-	
	USB2.0	0.3 Mega Pixel	ARTCAM-424KY-USB3	ARTCAM-424KY-BW-USB3	1/3"	7.4x7.4	Global Shutter	146	-	-	●	-	-	-	-	
		29.0 Mega Pixel	ARTCAM-2900KAI-USB3	ARTCAM-2900KAI-BW-USB3	35mm size	5.5x5.5	Global Shutter	1.9	-	-	●	-	-	-	-	
		16.0 Mega Pixel	ARTCAM-1600KAI-USB3	ARTCAM-1600KAI-BW-USB3	APS-H size	5.5x5.5	Global Shutter	3.46	-	-	●	-	-	-	-	
		8.0 Mega Pixel	ARTCAM-810KAI-USB3	ARTCAM-810KAI-BW-USB3	4/3"	5.5x5.5	Global Shutter	6.6	-	-	●	-	-	-	-	
		4.0 Mega Pixel	ARTCAM-410KAI-USB3	ARTCAM-410KAI-BW-USB3	1"	5.5x5.5	Global Shutter	12.6	-	-	●	-	-	-	-	
HDMI	2.0 Mega Pixel	ARTCAM-210KAI-USB3	ARTCAM-210KAI-BW-USB3	2/3"	5.5x5.5	Global Shutter	TBD	-	-	●	-	-	-	-		
	1.0 Mega Pixel	ARTCAM-100KAI-USB3	ARTCAM-100KAI-BW-USB3	1/2"	5.5x5.5	Global Shutter	48.3	-	-	●	-	-	-	-		
	5.0 Mega Pixel	ARTCAM-655KY-WOM	ARTCAM-655KY-BW-WOM	2/3"	3.45x3.45	Global Shutter	6.1(2.4)	-	-	-	-	-	-	-		
	5.0 Mega Pixel	ARTCAM-500P II-WOM	-	2/3"	3.4x3.4	Global Shutter (Interface)	4(3.75)	-	-	-	-	-	-	-		
	2.0 Mega Pixel	ARTCAM-274KY-WOM	ARTCAM-274KY-BW-WOM	1/1.8"	4.4x4.4	Global Shutter	15(15)	-	-	●	-	-	-	-		

※1 Monochrome type is also available depend on the quantity. ※2 Frame rate vary depending on PC. () shows the frame rate of original cameras for cameras with both the original and WOM(100% Bulk transfer) model. ※3 I/O option is available on all WOM cameras

USB2.0 CONVERTER (NTSC·PAL·SECAM→USB2.0)

MODEL	INPUT TYPE	CHANNEL	DIRECT X COMPATIBLE
ARTCNV II-PIN	RCA pin type	1	●
ARTCNV II-BNC	BNC pin type	1	●
ARTCNV II-12P	12 pin type	1	●

UV Camera

Spectral sensitivity characteristics
250 - 400nm

ARTCAM-07UV-WOM	1360(H)x1024(V)	USB2.0
Active Pixels		
Interface		

Thermal Infrared Camera

Spectral sensitivity characteristics
8 - 14µm

ARTCAM-320-THERMO-WOM	ARTCAM-640-THERMO-WOM
QVGA 320(H)x240(V)	VGA 640(H)x480(V)
f=8mm:50°(H)x37°(V)	f=50mm:17°(H)x13°(V) (Option)
72(W)x61.7(H)x115.8(D)mm	82(W)x65.5(H)x120.5(D)mm
USB2.0 / Ethernet	USB2.0

NIR Camera

Spectral sensitivity characteristics
330 - 1000nm

ARTCAM-130HP-WOM	1280(H)x1024(V)	USB2.0
Active Pixels		
Interface		

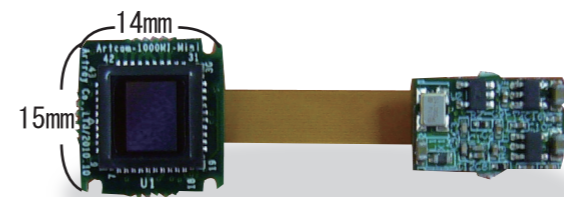
InGaAs Camera

Spectral sensitivity characteristics
900 - 1700nm

ARTCAM-03TNIR	ARTCAM-08TNIR
QVGA 640(H)x512(V)	VGA 320(H)x256(V)
USB2.0	USB2.0



From Tokyo to the World!



- ### PRODUCTS INFORMATION English
- USB3.0 CMOS / CCD Camera
 - USB2.0 CMOS / CCD Camera
 - USB2.0 CMOS / CCD Board Camera
 - HDMI CMOS / CCD Camera
 - Serial ATA CMOS / CCD Camera
 - USB2.0 / Ethernet Thermal Infrared Camera
 - USB2.0 Thermal Infrared Microscope
 - NIR Camera
 - InGaAs Camera
 - UV Camera
 - Converter (Analog→USB2.0 · LVDS→USB2.0 · LVDS→GigE)

USB 2.0 Camera

WOM(With on-board memory) Series

WOM Series Cameras support 100% Bulk Transfer. Camera are equipped with on board memory which avoid data missing during transfer.
WOM Series Cameras offer higher frame rates than regular products.
(Subject to PC specifications)

Optional Items

- 2 Dimension measurement software
- Recording software
- USB extension cable
- C Mount Lens
- LED Lights

Free SDK
(Software Development Kit)

CMOS



Dimensions: 50(W) × 47(H) × 41.7(D)mm
Weight: 110g

	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
	CMOS	14M	Aptina	USB2.0	Electronic Rolling Shutter	1/2.3"	4608(H) × 3288(V)	6.14(H) × 4.60(V)	1.4(H) × 1.4(V)	RGB	0.724V/Lux-sec(550nm)	C-Mount	3fps	1/9756 ~ 1.68s	Supplied from USB Port
		10M				1/2.3"	3856(H) × 2764(V)	6.41(H) × 4.59(V)	1.67(H) × 1.67(V)		0.31V/Lux-sec(550nm)		4.4fps	1/11678 ~ 1.4s	
		5M				1/2.5"	2560(H) × 1920(V)	5.70(H) × 4.28(V)	2.2(H) × 2.2(V)		0.5V/Lux-sec(550nm)		7.5fps	1/53452 ~ 1.196s	
		3M				1/2"	2048(H) × 1536(V)	6.55(H) × 4.92(V)	3.2(H) × 3.2(V)		1.0V/Lux-sec(550nm)		12fps	1/19688 ~ 0.832s	
		1.3M	Sony			1/3"	1328(H) × 1048(V)	4.82(H) × 3.81(V)	3.63(H) × 3.63(V)	0.46V(Sony Standard)	28.5fps		1/33852 ~ 0.24s		
		1.3M				Aptina	1/2"	1280(H) × 1024(V)	6.66(H) × 5.32(V)	5.2(H) × 5.2(V)	1.8V/Lux-sec(550nm)		30fps	1/35928 ~ 0.52s	
		0.36M					Global Shutter	1/3"	640(H) × 480(V)	4.51(H) × 2.88(V)	6.0(H) × 6.0(V)		RGB	4.8V/Lux-sec(550nm)	

※ARTCAM-1000MI-BW-WOM is available depends on order quantity.

CCD



Dimensions: 50(W) × 47(H) × 49.7(D)mm
Weight: 120g

	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
	CCD	5M	Sony/ICX655	USB2.0	Global	2/3"	2456(H) × 2058(V)	8.47(H) × 7.10(V)	3.45(H) × 3.45(V)	RGB	0.42V(Sony Standard)	C-Mount	6.1fps	1/12531 ~ 1/6s	Supplied from USB Port
		5M	Sony/ICX282		Global (Interlace)	2/3"	2560(H) × 1920(V)	8.80(H) × 6.66(V)	3.4(H) × 3.4(V)		0.31V(Sony Standard)		4fps	1/8293 ~ 1/4s	
		2M	Sony/ICX274		Global	1/1.8"	1600(H) × 1200(V)	7.16(H) × 5.44(V)	4.4(H) × 4.4(V)		0.42V(Sony Standard)		15fps	1/47493 ~ 1/15s	
		1.5M	Sony/ICX205			1/2"	1360(H) × 1024(V)	6.47(H) × 4.83(V)	4.65(H) × 4.65(V)		0.4V(Sony Standard)		12fps	1/58824 ~ 1/12.5s	
		1.5M	Sony/ICX285		2/3"	1360(H) × 1024(V)	8.98(H) × 6.71(V)	6.45(H) × 6.45(V)	1.3V(Sony Standard)		12.6fps		1/39152 ~ 1/12.6s		
		1.25M	Sony/ICX445		1/3"	1280(H) × 960(V)	4.86(H) × 3.62(V)	3.75(H) × 3.75(V)	0.46V(Sony Standard)		22fps		1/94988 ~ 1/22.47s		
		0.33M	Sony/ICX424		1/3"	656(H) × 494(V)	4.88(H) × 3.66(V)	7.4(H) × 7.4(V)	0.75V(Sony Standard)		100fps		1/96332 ~ 1/100s		

Board Camera



C-Mount Type Board Camera
(Lens not included)

Available to for all USB2.0 series



Board Camera
(M12 f=8mm Lens included)

Available to for all USB2.0 series except
ARTCAM-655KY-WOM/500P II-WOM

USB 3.0 Camera

CMOS ARTCAM-USB3-T2 series



Dimensions : 50(W) × 47(H) × 59.4(D)mm
Weight : 150g

Optional Items

- 2 Dimension measurement software
- Recording software
- USB extension cable
- C Mount Lens
- LED Lights

Free SDK
(Software Development Kit)

	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
	CMOS	14M	Aptina	USB3.0	Global	1/2.3"	4384(H) × 3288(V)	6.14(H) × 4.60(V)	1.4(H) × 1.4(V)	RGB	0.724V/Lux-sec(550nm)	C-Mount	6fps	1/18440~0.4	Supplied from USB Port
		10M				1/2.3"	3856(H) × 2764(V)	6.41(H) × 4.59(V)	1.67(H) × 1.67(V)		0.31V/Lux-sec(550nm)		6fps	1/16656~0.42	
		5M				1/2.5"	2592(H) × 1944(V)	5.7(H) × 4.28(V)	2.2(H) × 2.2(V)		0.5V/Lux-sec(550nm)		13.9fps	1/34808~0.543	

※ARTCAM-1000MI-BW-USB3-T2 is available depends on order quantity.

CCD ARTCAM-USB3-T2 series



Dimensions : 50(W) × 47(H) × 79.9(D)mm
Weight : 180g (※ARTCAM-655KY-USB3-T2...200g)

	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
	CCD	5M	Sony/ICX655	USB3.0	Global	2/3"	2456(H) × 2058(V)	8.47(H) × 7.10(V)	3.45(H) × 3.45(V)	RGB	0.42V(Sony Standard)	C-Mount	9fps	1/18797~1/9.05	Supplied from USB Port
		2M	Sony/ICX274			1/1.8"	1600(H) × 1200(V)	7.16(H) × 5.44(V)	4.4(H) × 4.4(V)		0.42V(Sony Standard)		25fps	1/31250~1/25	
		0.33M	Sony/ICX424			1/3"	656(H) × 494(V)	4.88(H) × 3.66(V)	7.4(H) × 7.4(V)		0.75V(Sony Standard)		146fps	1/76923~1/147	

CCD ARTCAM-KAI-USB3 series



2900KAI-USB3, 1600KAI-USB3, 810KAI-USB3, 410KAI-USB3
Dimensions : 71.6(W) × 61.5(H) × 84.7(D)mm
Weight : 440g

100KAI-USB3, 210KAI-USB3
Dimensions : 71.6(W) × 61.5(H) × 61.5(D)mm
Weight : 300g

	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
	CCD	29M	Truesense Imaging	USB3.0	Global	35mm size	6576(H) × 4384(V)	36.17(H) × 24.11(V)	5.5(H) × 5.5(V)	RGB	34 μV/e-(550nm)	C-Mount	1.90fps	1/22440~1/1.9	DC12V (AC adapter)
		16M				APS-H	4896(H) × 3264(V)	26.93(H) × 17.95(V)					3.46fps	1/55363~1/3.46	
		8M				4/3"	3296(H) × 2472(V)	18.13(H) × 13.60(V)					6.6fps	1/1167951~1/6.64	
		4M				1"	2336(H) × 1752(V)	12.85(H) × 9.64(V)					12.6fps	1/122137~1/12.51	
		2M				2/3"	1600(H) × 1200(V)	8.80(H) × 6.60(V)					30fps	1/165289~1/30.4	
		1M				1/2"	1024(H) × 1024(V)	5.63(H) × 5.63(V)					50.8fps	1/165289~1/50.74	

USB 3.0 Camera

CMOS ARTCAM-SS-USB3 series



Dimensions : 33.8(W) × 33.8(H) × 30.2(D)mm
Weight : 160g

Optional Items

- 2 Dimension measurement software
- Recording software
- USB extension cable
- C Mount Lens
- LED Lights

Free SDK
(Software Development Kit)

Color Mono NIR



	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
ARTCAM-1400SS-USB3	CMOS	14M	Aptina	USB3.0	Electronic Rolling Shutter	1/2.3"	4608(H) × 3288(V)	6.14(H) × 4.60(V)	1.4(H) × 1.4(V)	RGB	0.724V/Lux-sec(550nm)	C-Mount	6fps	TBD	Supplied from USB Port
ARTCAM-1000SS-USB3		10M				1/2.3"	3840(H) × 2768(V)	6.41(H) × 4.59(V)	1.67(H) × 1.67(V)		0.31V/Lux-sec(550nm)		6fps	1/10000~2	
ARTCAM-500SS-USB3		5M				1/2.5"	2560(H) × 1920(V)	5.70(H) × 4.28(V)	2.2(H) × 2.2(V)		0.5V/Lux-sec(550nm)		13.9fps	TBD	

※ARTCAM-1000SS-BW-WOM is available depends on order quantity.

CMOS ARTCAM-178IMX-USB3



Dimensions : 50(W) × 47(H) × 59.4(D)mm
Weight : 150g

Color Mono NIR



	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
ARTCAM-178IMX-USB3	CMOS	6M	Sony/IMX178	USB3.0	Electronic Rolling Shutter	1/1.8"	3072(H) × 2048(V)	7.43(H) × 4.99(V)	2.4(H) × 2.4(V)	RGB	0.43V(Sony Standard)	C-Mount	50fps	TBD	Supplied from USB Port

CMOS High Flamerate USB3.0 Camera



Dimensions : 71.5(W) × 61.5(H) × 62(D)mm
Weight : 250g

Color Mono NIR



	Sensor Type	Pixels	Sensor Manufacturer	Interface	Shutter Type	Optical Format	Active Pixels	Active Image Size(mm)	Pixel Size(μm)	Color Filter Array	Sensitivity	Lens Mount	Flame Rate	Shutter Speed	Power supply
ARTCAM-2000CMV-USB3	CMOS	2M	CMOSIS	USB3.0	Global	2/3"	2048(H) × 1088(V)	11.26(H) × 5.98(V)	5.5(H) × 5.5(V)	RGB	4.64V/Lux-sec	C-Mount	100fps	1/29253~1/18.9	Supplied from USB Port

USB 2.0 InGaAs Camera

- * InGaAs Camera is available now!
- * High Sensitivity in 900-1700nm NIR range
- * USB 2.0 interface - No capture board needed
- * Easy to process original images as RAW data are extracted
- * Gain and shutter speed are adjustable with enclosed viewer software
- * 640x512 High Resolution (for ARTCAM-031TNIR)



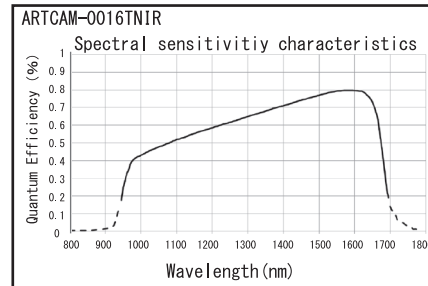
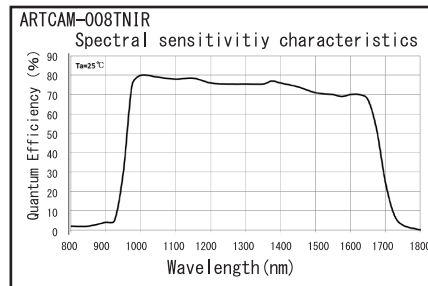
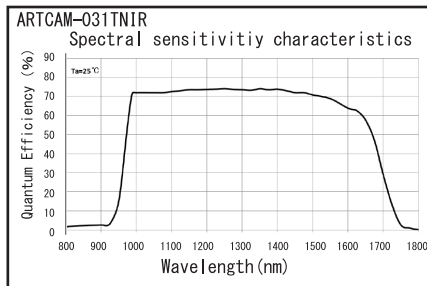
ARTCAM-0016TNIR
ARTCAM-008TNIR (QVGA size)



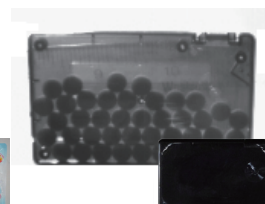
ARTCAM-031TNIR (VGA size)

- Optional Items**
- 2 Dimension measurement software
 - Recording software
 - USB extension cable
 - C Mount Lens
 - LED Lights

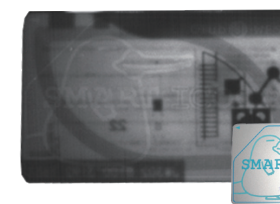
Free SDK
(Software Development Kit)



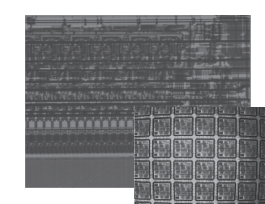
Liquid



Tablet Mint



IC card



Wafer

	Sensor Type		Spectral Sensitivity(nm)	Interface	Shutter Type	Operability	Active Pixels	Active Image Size(mm)	Pixel Size (μm)	Lens Mount	Flame Rate	Shutter Speed	Power supply	A/D Resolution	Dimensions(mm)	
ARTCAM-031TNIR	0.31M	InGaAs	900~1700	USB2.0	Global	>99%	640(H)×512(V)	16.0(H)×12.8(V)	25(H)×25(V)	C-Mount	33.6fps	1/18232~3.59s	DC12V (AC adapter)	12bit	71.5(W)×61.5(V)×125(D)	
ARTCAM-008TNIR	0.08M						320(H)×256(V)	9.6(H)×7.68(V)	30(H)×30(V)		90fps			1/25706~1.27s	15bit	71.5(W)×61.5(V)×51.8(D)
ARTCAM-0016TNIR	0.016M						128(H)×128(V)	2.56(H)×2.56(V)	20(H)×20(V)		258fps			TBD	14bit	71.5(W)×61.5(V)×51.8(D)

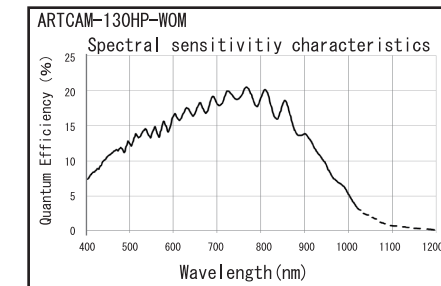
USB 2.0 CMOS NIR Camera

- CMOS BW Global Shutter
- 1.3M Pixels High Resolution
- CMOS Sensor made by HAMAMATSU Photonics
- USB2.0 interface built-in memory that realized stable operation.

- Optional Items**
- 2 Dimension measurement software
 - Recording software
 - USB extension cable
 - C Mount Lens
 - LED Lights
- Free SDK**
(Software Development Kit)



- Application:**
- Biological, Microscopy analytical
 - Semiconductor analytical
 - Laser light analytical
 - Vein authentication, Security Camera and so on.



	Sensor Type		Spectral Sensitivity(nm)	Interface	Shutter Type	Active Pixels	Active Image Size(mm)	Pixel Size (μm)	Lens Mount	Flame Rate	Power supply	A/D Resolution	Dimensions(mm)
ARTCAM-130HP-WOM	1.3M	CMOS	380~1000	USB2.0	Global	1280(H)×1024(V)	9.427(H)×7.578(V)	7.4(H)×7.4(V)	C-Mount	8.0fps	Supplied from USB Port	10bit	50(W)×47(V)×41.7(D)

Depending on lens you use, our product might not reach the best condition and problems, such as the low resolution and lightness, might occur. Please consult our sales representative for the recommended lenses.

UV Cameras

USB2.0

The ARTCAM-407UV-WOM is camera adopting a CCD sensor equipped sensitivity of ultraviolet. The area of visible light is hardly recognized based on its combination with UV lighting equipment and it easily reflects blur, stain and scratch on the surface of objects.

- * Sensor Type : CCD
- * Interface : USB2.0
- * Sensor Manufacturer/Model : Sony/ICX407BLA
- * Shutter Type : Global Shutter
- * Optical Format : 1/2 inch
- * Resolution : 1360 (H) x 1024 (V)
- * Active Imager Size : 6.47 (H) x 4.83 (V) mm
- * Pixel Size : 4.65 (H) x 4.65 (V) μm
- * Lens Mount : C Mount (Lens is not included)
- * Frame Rate : 12fps
- * Trigger : External Trigger (Option)
- * Shutter Speed : 1/58824 ~ 1/12.5s
- * External Dimensions : 50 (W) x 47 (H) x 49.7 (D) mm
- * Weight : Approx. 120g
- * Power Supply : DC5V (Supplied from USB port)
- * Options : 2 Dimension measurement software
Recording software

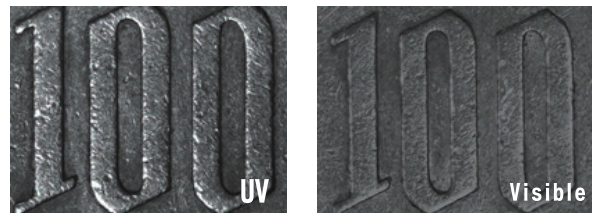
Free SDK
(Software Development Kit)

Spectral sensitivity characteristics
200 - 400nm

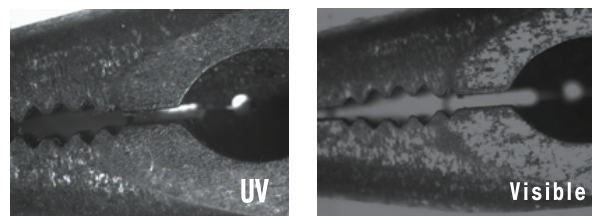
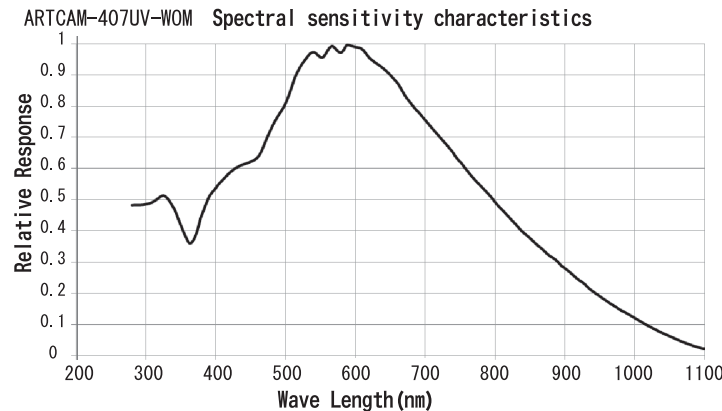


ARTCAM-407UV-WOM

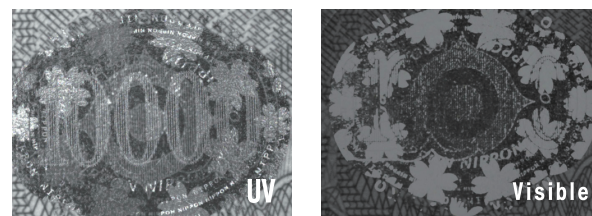
Please use lens ideally applicable to UV areas. Depending on lens you use, our product might not reach the best condition.



Coin



Pliers



Holography

Mini Cameras

USB2.0

ARTCAM-1000MINI

10.0M

USB2.0

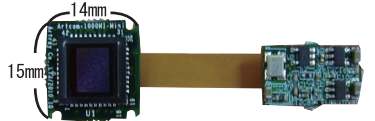
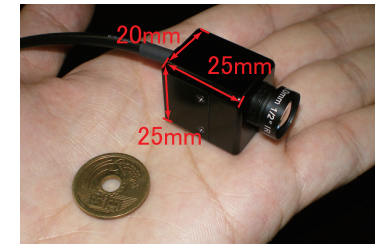
COLOR CMOS

MONO CMOS

DIRECT X COMPATIBLE

ROI

Board Camera



Board camera type available.

- * Sensor Type : CMOS (Color)
- * Interface : USB2.0
- * Sensor Manufacturer : Aptina
- * Shutter Type : Rolling Shutter
- * Optical Format : 1/2.3 inch
- * Active Pixels : 3856 (H) x 2764 (V)
- * Active Imager Size : 6.41 (H) x 4.59 (V) mm
- * Pixel Size : 1.67 (H) x 1.67 (V) μm
- * Sensitivity : 0.31 V/Lux-sec (550nm)
- * Dimensions : 20 (W) x 25 (H) x 25 (D) mm (Case type)
- * Color Filter Array : RGB Bayer Pattern
- * Lens Mount : M12 x P0.5
- * Frame Rate : 2.2fps
- * Power Supply : Supplied from USB Port

* Monochrome type is also available depend on the quantity.

ARTCAM-022MINI

0.36M

USB2.0

COLOR CMOS

MONO CMOS

DIRECT X COMPATIBLE

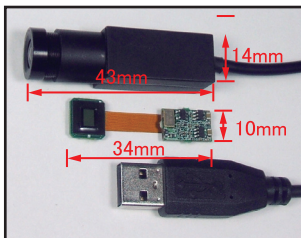
ROI

Board Camera

- * Sensor Type : CMOS (Color/Monochrome)
- * Interface : USB2.0
- * Sensor Manufacturer : Aptina
- * Shutter Type : Global Shutter
- * Optical Format : 1/3 inch
- * Active Pixels : 640 (H) x 480 (V)
- * Active Imager Size : 4.51 (H) x 2.88 (V) mm
- * Pixel Size : 6.0 (H) x 6.0 (V) μm
- * Sensitivity : 4.8 V/Lux-sec (550nm)
- * Color Filter Array : RGB Bayer Pattern
- * Lens Mount : M12 f=8mm Board Lens
- * Frame Rate : 60fps
- * Shutter Speed : 1/32967 ~ 1s
- * Dimension : 14 (W) x 14 (H) x 43 (D) mm (Enclosed type)
- * Power Supply : Supplied from USB Port
- * Options : 2 Dimension measurement software
Recording software

Free SDK
(Software Development Kit)

GLOBAL SHUTTER TYPE

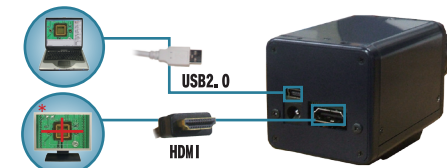


HDMI Output Cameras

HDMI&USB2.0

No PC needed ! Display on monitors/TVs via LCD or HDMI interface.

- * HDMI (High Definition Multimedia Interface) Ver1.2
- * Lens Mount : C Mount (Lens is not included)
- * Output : USB2.0 (8bit digital output) / HDMI Ver1.2
- * USB : USB2.0 Bulk transfer Streaming Output
- * External Dimensions : 50 (W) x 47 (H) x 79.9 (D) mm
- * Power Supply : DC5V (AC adapter)



* Cross cursor is equipped

ARTCAM-1000MI-HD2

Full HD 1080

10.0M

USB2.0

HDMI

COLOR CMOS

- * Full HD (1080P) Output
- * 10.0M Pixels CMOS Sensor
- * Color Sensor
- * Sensor Type : 10.0M Pixels CMOS (Color)
- * Shutter Type : Rolling Shutter
- * Optical Format : 1/2.3 inch
- * Active Pixels : 3664 (H) x 2748 (V)
- * HDMI Video Output : 1.67 (H) x 1.67 (V) μm
- * Pixel Size : Progressive Scan
- * Transfer Method : 1080P / 720P (Output can be switched by software)

ARTCAM-150P5-HD2

1.5M

USB2.0

HDMI

COLOR CCD

MONO CCD

NIR

- * 1.5M Pixels CCD Sensor
- * Color/Monochrome Sensor Available
- * Sensor Type : 1.5M Pixels CCD (Color/Monochrome)
- * Shutter Type : Global Shutter
- * Optical Format : 1/2 inch
- * Active Pixels : 1360 (H) x 1024 (V)
- * Pixel Size : 4.65 (H) x 4.65 (V) μm
- * Transfer Method : Progressive Scan
- * HDMI Video Output : 720P or 1280x1024

Thermal Infrared Camera

Artray Thermal Camera series is equipped with USB2.0/Ethernet interface that transfers 14 bit high speed raw data collected by microbolometer directly.

Common Specification

Detector Type	Detected Wavelength	Pixel Pitch	Temperature Resolution	Operability	Thermal Time Constant	Temperature Range	Accuracy of Temperature	Power supply	Operating temperature
Uncooled Microbolometer (Built in peltier device)	8~14 μm	23.5 μm	L range : <75mK H range : <300mK	>98% (Defective pixel correction)	16msec typ.	L range : -40~150°C H range : 0~540°C	±5% or ±5°C	DC12V (AC adapter)	0~35°C


Accessories: Device Driver, Viewer Software, AC adapte, USB cable or LAN cable
 Optional Items: IR lens(Germanium) ··· ARTCAM-320-THERMO : f=16mm,25mm,35mm,75mm,100mm Ultra wide lens 70°,90°,120°
 ARTCAM-640-THERMO : f=15mm,50mm,100mm

Free SDK (Software Development Kit)

USB2.0 Theramal Infrared Camera

QVGA Size

ARTCAM-320-THERMO-WOM **USB2.0**




- * Effective Pixels : QVGA 320 × 240
- * 8mm lens FOV : 50° (H) × 37.5° (V)※Standard
- * 16mm lens FOV : 26° (H) × 20° (V)※Option
- * Starting Time : ≤15sec (Environment Temperature ≤60°C)
- * Flame Rate : 60fps
- * Energy Consumption : 10W以下
- * Dimentions : 72(W) × 61.7(H) × 115.8(D) mm
- * Weight : Around600g (Including lens)

High temperature range thermal infrared camera
Up to 1200°C detection!
 ARTCAM-320-THERMO-H1200

VGA Size


ARTCAM-640-THERMO-WOM **USB2.0**



- * Effective Pixels : QVGA 640 × 480
- * 50mm lens FOV : 17° (H) × 13° (V)※Option
- * Starting Time : ≤15sec (Environment Temperature ≤60°C)
- * Flame Rate : 60fps
- * Energy Consumption: Under12W
- * Dimentions : 82(W) × 85.5(H) × 120.5(D) mm (Excluding Tripod)
- * Weight : Around700g

Ethernet Theramal Infrared Camera

ARTCAM-320-THERMO-LAN3 **Ethernet**



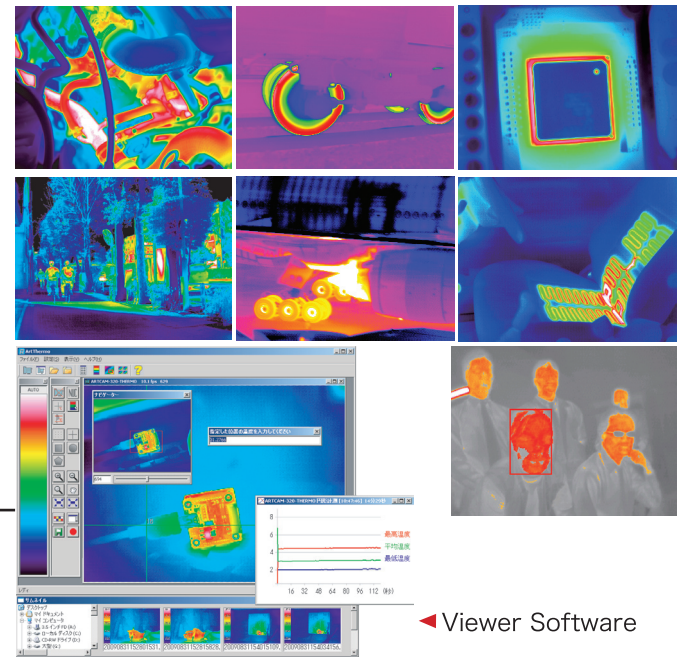
- * Effective Pixels : QVGA 320 × 240
- * 8mm lens FOV : 50° (H) × 37.5° (V)※Standard
- * 16mm lens FOV : 26° (H) × 20° (V)※Option
- * Starting Time : ≤60sec (Environment Temperature ≤60°C)
- * Flame Rate : 30fps
- * Energy Consumption : 10W以下
- * Dimentions : 72(W) × 61.7(H) × 115.8(D) mm
- * Weight : Around600g (Including lens)

- Operating Systems : Windows XP or above
- Recommended CPU : 2.8GHz or above

LAN Port Specification

Support Standard	IEEE802.3u(100BASE-TX)
LAN Port	RJ-45
Standard	100BASE-TX/Full Duplex/Half Duplex
AutoMDI/MDI-X	Automatic Recognition
Transmission Rate	100Mbps
Protocol	TCP/IP

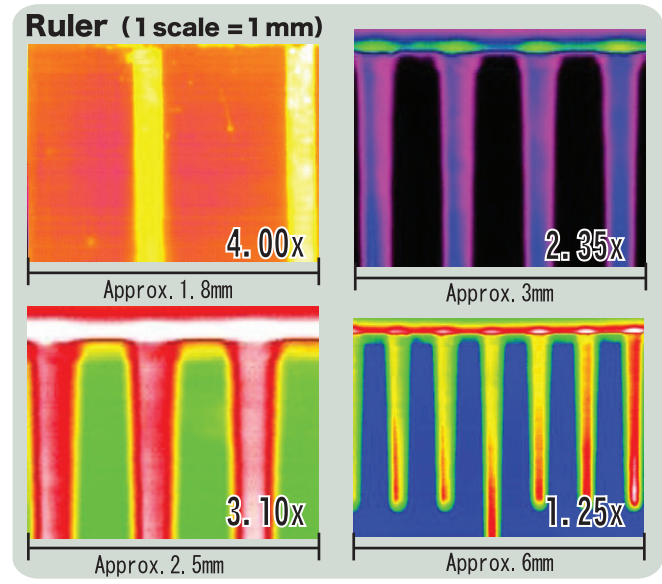
- USAGE
- Quality Control
 - Surveillance
 - Equipment/Building Inspection
 - Medical Inspection / Diagnosis
 - Research & Development
 - Image Processing
 - Fire Alert
 - Production Management



Viewer Software

Thermal Infrared Microscope

Magnification
4.00x · 3.10x · 2.35x · 1.25x
 Zoom type : 0.25x - 0.8x



ARTCAM-320-THERMO-MACRO **USB2.0**

Specifications

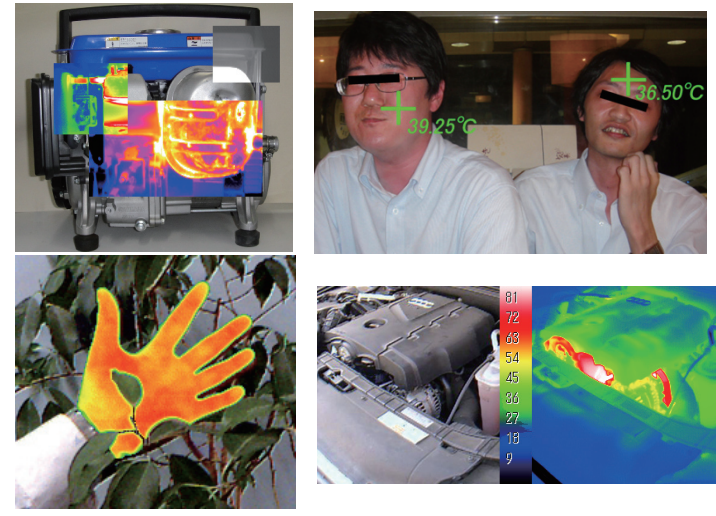
Active Pixels	QVGA 320(H) × 240(V)
Detector Type	Uncooled Microbolometer (Built in peltier device)
Frame Rate	30fps
Pixel Pitch	23.5 μm
Detected Wavelength	8 - 14 μm
Output	14bit digital output
Interface	USB2.0
Temperature Range	0 - 300°C
Power Supply	DC12V(AC adapter)

Hybrid Thermal Camera

Introducing the New Artray Hybrid series!

- * New! The latest Picture in Picture (PIP) technology
- * Infrared + visible light images = identify targets clearly!
- * Easy viewing modes - switch among picture in picture, full IR thermal, and blend visual and thermal images.
- * Fast Temperature measurement - only one click!

ARTCAM-320-THERMO-HYBRID **USB2.0**



Specifications

	Thermo	Visible
Active Pixels	QVGA 320(H) × 240(V)	1280 × 1024
Detector Type	Uncooled Microbolometer (Built in peltier device)	
Pixel Pitch	23.5 μm	
Detected Wavelength	8 - 14 μm	
Output	14bit digital output	
Temperature Range	-40~540°C	
Active Pixels		1280 × 1024
Optical Format		1/3 inch
Board Lens		f=3.6mm
Frame Rate	30fps	
Interface	USB2.0	
Power Supply	DC12V(AC adapter)	

latest technologies

Camera With LED Function Control ARTCAM-CCS-150P5-WOM

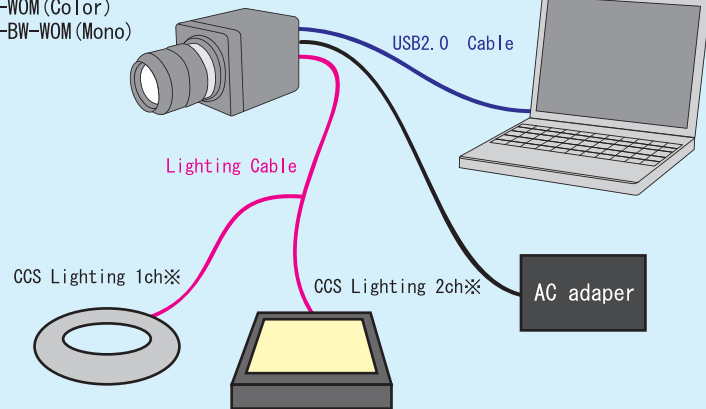
USB Camera with smart lighting control.
With LED lighting produced by CCS
you can control light quantity and flash timing from the viewer.

- Number of Channel : 2 channel
- Light System : Emitted light/Strobo mode
- Matching Light : DC24V
- Control System : PWM control and lighting time control
- Lighting Mode : Regular Lighting/Lighting by Trigger/Timer setting



【Connection Image】

Camera Model
 ■ ARTCAM-CCS-150P5-WOM (Color)
 ■ ARTCAM-CCS-150P5-BW-WOM (Mono)



- | | |
|---|---|
| * Sensor Type : CCD (Color/Mono) | * Lens Mount : C-Mount |
| * Interface : USB2.0 | * Flame Rate : 12fps |
| * Sensor Manufactur/Model : Sony/ICX205 | * Trigger : External Trigger |
| * Shutter Type : Global | * Shutter Speed : 1/58824~1/12.5s |
| * Optical Format : 1/2" | * Power Supply : Camera···DC5V (Supply from USB Port) |
| * Active Pixels : 1360(H)×1024(V) | : LED···DC24V |
| * Active Image size : 6.47(H)×4.83(V)mm | * Optional Items : 2 Dimension Measurement Software |
| * Pixel Size : 4.65 (H) × 4.65 (V) μm | : Recording Software |
| * Sensitivity : 4.0V (Sony Standard) | |

Free SDK
(Software Development Kit)

4K2K Camera ARTCAM-1200KAC-4K2K

4K2K realized monitoring with overwhelming high resolution.
It is connected to PC with USB3.0 besides HDMI output.



- | | |
|--|--|
| * Sensor Type : CMOS | * Lens Mount : F-Mount |
| * Interface : HDMI, USB3.0 | * Flame Rate : 60fps |
| * Sensor Manufactur/Model : Truesense | * Trigger : External Trigger (Option) |
| * Shutter Type : Electronic Rolling Shutter | * Shutter Speed : TBD |
| * Optical Format : 4/3" | * Dimensions : 61.5 (W) × 71.5 (H) × 84.7 (D) mm |
| * Active Pixels : 3840 (H) × 2160 (V) | * Weight : Around 110g |
| * Active Image size : 18.5 (H) × 10.2 (V) mm | * Power Supply : DC5V (Supply from USB Port) |
| * Pixel Size : 4.7 (H) × 4.7 (V) μm | * Options : Dimension Measurement Software |
| * Sensitivity : TBD | |

Free SDK
(Software Development Kit)

ARTCAM-150P5-WOM-AF

Auto Focus Camera with Liquid Lens
The industry's first Auto Focus Camera without moving parts!

- Using C-Mount Lens with Liquid Lens, this camera does not need any Motor Drive, Motor Controller, Laser or Control Unit.
- Liquid Lens realized High Speed Focus!
- You can control focus by the Software.
- It is realable for both FA and industrial use because of WOM serie camera equipped with 100% Bulk Transfer which avoid data missing during transfer.
- You can make it into multi camera system easliy.



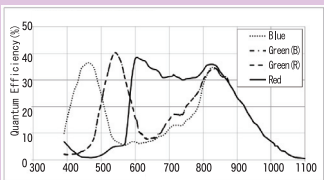
Free SDK
(Software Development Kit)

- | | |
|--|---|
| * Sensor Type : CCD (Color/Mono) | * Flame Rate : 12fps |
| * Sensor Manufactur/Model : Sony/ICX205 | * Trigger : External Trigger (Option) |
| * Shutter Type : Global | * Shutter Speed : 1/58824~1/12.5s |
| * Optical Format : 1/2" | * Dimensions : 50 (W) × 47 (H) × 49.7 (D) mm |
| * Active Pixels : 1392 (H) × 1040 (V) | * Weight : 120g |
| * Active Image size : 6.47 (H) × 4.83 (V) mm | * Power Supply : DC5V (Supply from USB Port) |
| * Pixel Size : 4.65 (H) × 4.65 (V) μm | * Optional Items : 2 Dimension Measurement Software |
| * Sensitivity : 0.4V (Sony Standard) | : Recording Software |
| * Color Filter Array : RGB | |
| * Lens : C-Mount lens (Internal Liquid Lens) | |

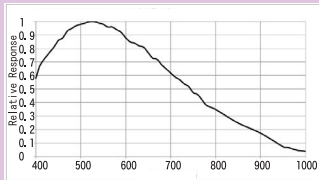
CMOS

Spectral sensitivity Characteristics

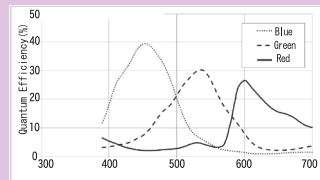
CCD



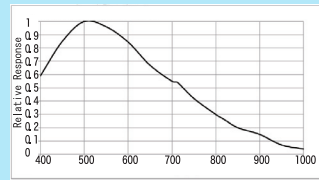
036M12-WOM/022M1N1



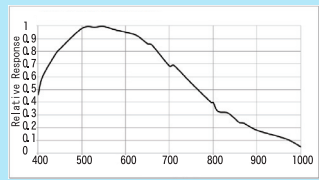
0351MX-BW-WOM



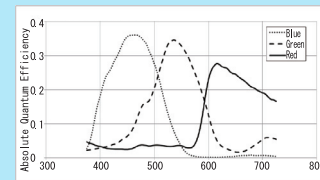
1000M1-WOM/1000M1N1/1000M1-USB3



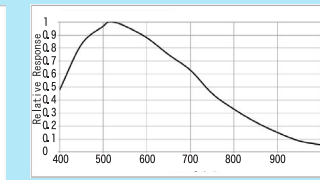
424KY-BW-WOM/424KY-BW-USB3



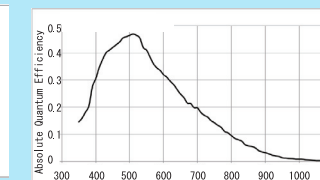
285CX-BW-WOM



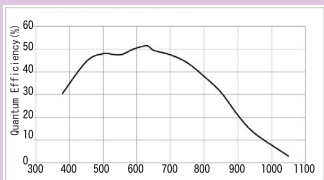
210KA1-USB3



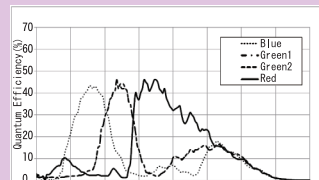
655KY-BW-WOM/655KY-BW-USB3



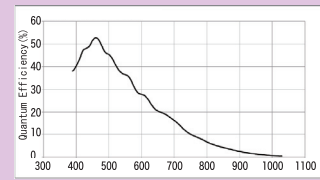
2900KA1-BW-USB3



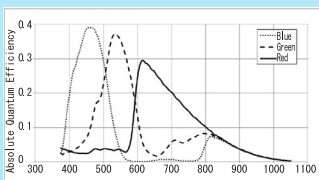
036M12-BW-WOM/022M1N1-BW



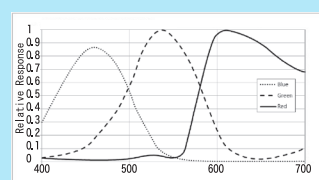
2000CMV-USB3



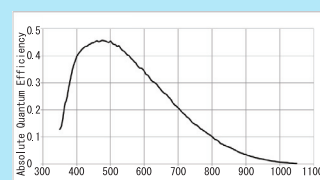
1000M1-BW-WOM/1000M1N1-BW/1000M1-BW-USB3



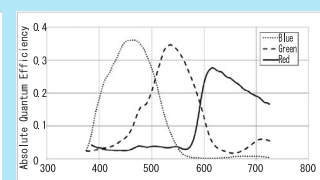
100KA1-USB3



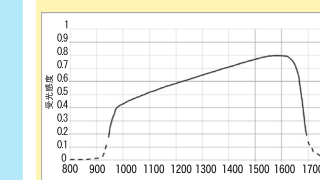
150P5-WOM



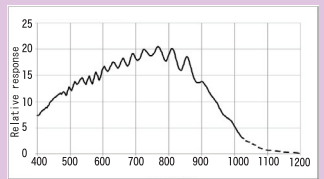
210KA1-BW-USB3



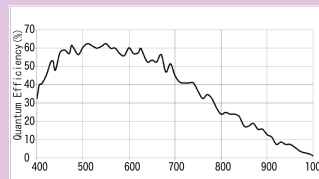
810KA1-USB3



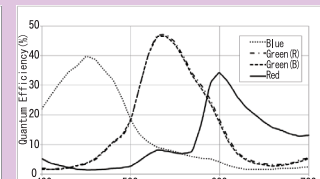
0016TNIR



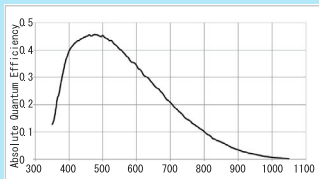
130HP-WOM



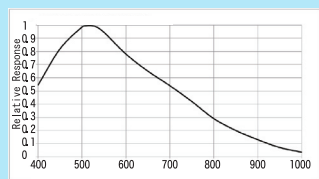
2000CMV-BW-USB3



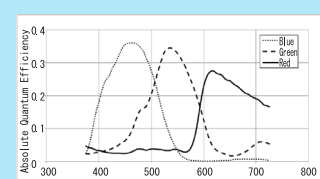
1400M1-WOM/1400M1-USB3



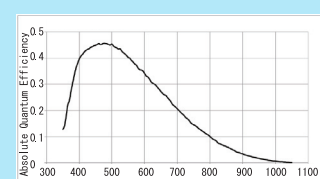
100KA1-BW-USB3



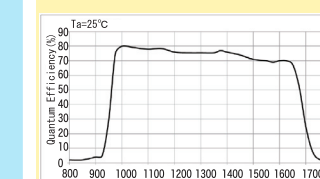
150P5-BW-WOM



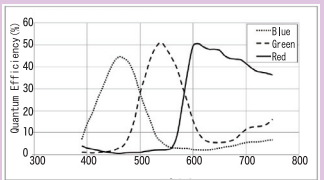
410KA1-USB3



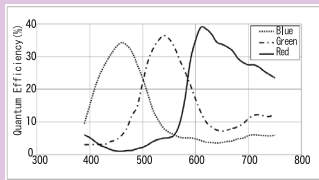
810KA1-BW-USB3



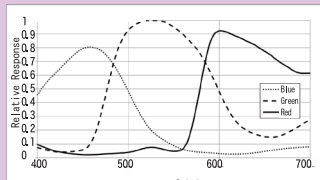
008TNIR



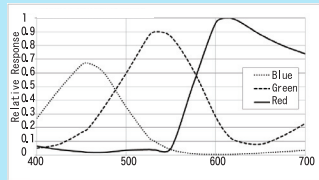
130M1-WOM



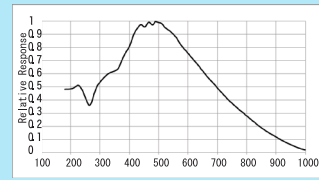
300M1-WOM



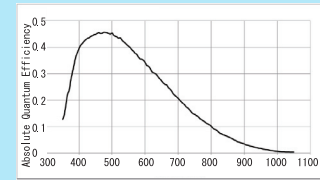
178MX-USB3



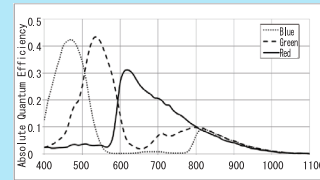
445KY2-WOM



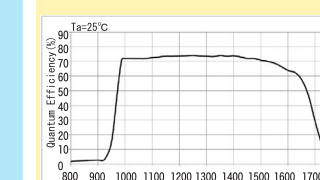
407UV-WOM



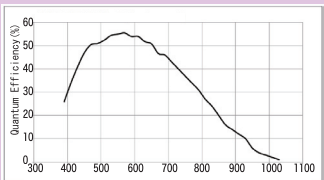
410KA1-BW-USB3



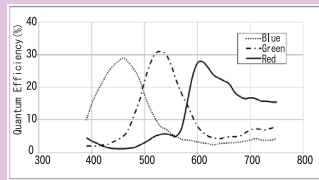
1600KA1-USB3



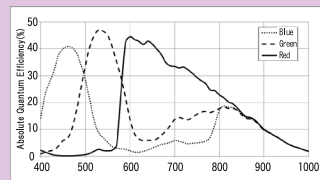
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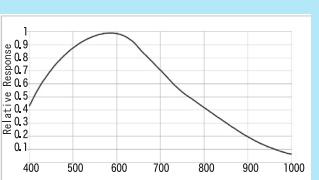
130M1-BW-WOM



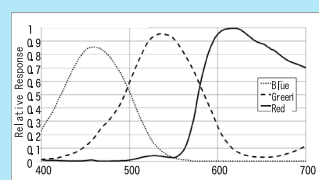
500M1-WOM/500M1-USB3



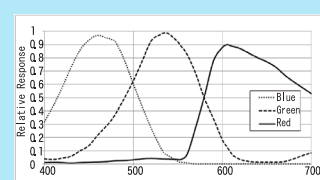
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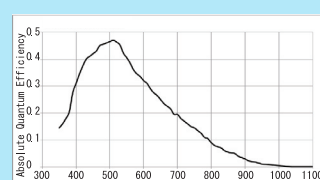
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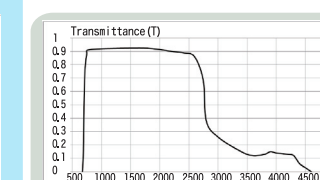
274KY-WOM/274KY2-USB3



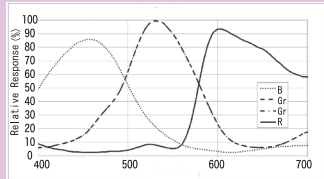
500P II-WOM



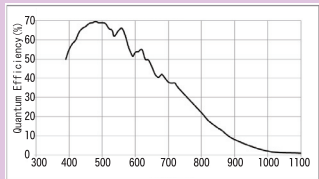
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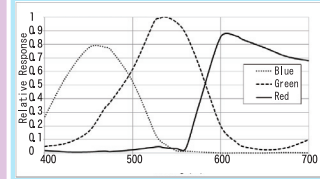
IR PASS FILTER



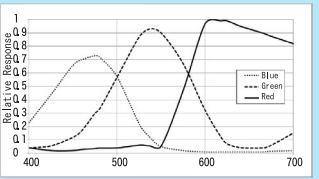
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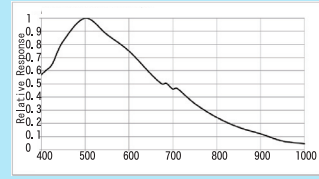
500M1-BW-WOM/500M1-BW-USB3



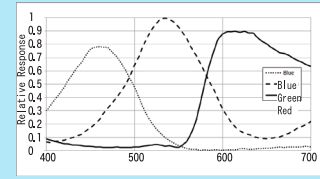
424KY-WOM/424KY-USB3



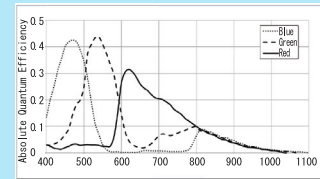
285CX-WOM



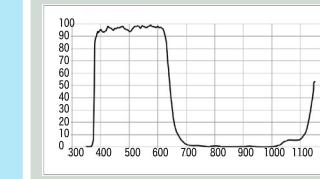
274KY-BW-WOM/274KY2-BW-USB3



655KY-WOM/655KY-USB3



2900KA1-USB3



IR CUT FILTER