

USB2.0 InGaAs NIR CAMERA

ARTCAM-TNIR series

INSTRUCTION BOOKLET

- 0.32 M pixels ARTCAM-031TNIR series
- 0.08 M pixels ARTCAM-008TNIR series
- 0.016 M pixels ARTCAM-0016TNIR series

6. Specifications

	ARTCAM-031TNIR	ARTCAM-008TNIR	ARTCAM-0016TNIR
Sensor Type	InGaAs Image Sensor		
Number of effective pixels	640(H)x512(V)	320(H)x256(V)	128(H)x128(V)
Resolution	640(H)x512(V)	320(H)x256(V)	128(H)x128(V)
Active Imager Size	16.0(H)x12.8(V)mm 1.28"	9.6(H)x7.68(V)mm	2.56(H)x2.56(V)mm
Scan Mode	Progressive Scan		
Pixel Size	25(H)x25(V) μ m	30(H)x30(V) μ m	20(H)x20(V) μ m
Detected Wavelength	900~1700nm		950~1700nm
Operability	>99%		
Shutter Type	Global Shutter		
Frame Rate	27.4fps	90fps	258fps
Shutter Speed	1/185185.185~4.408sec	1/25706~1.27 sec	1/1000000~13.107 sec
Detectivity	$\geq 5 \times 10^{12}$ Jones		-
Gain	High Gain : 23.6 μ V/e- Low Gain : 1.26 μ V/e-	High Gain : 13.3 μ V/e- Low Gain : 0.7 μ V/e-	-
Full Well Capacity	High Gain : 118Ke- Low Gain : 1.9Me-	High Gain : 170Ke- Low Gain : 3.5Me-	-
A/D Resolution	12bit	14bit	
Interface	USB2.0 Bulk Transfer		
Synchronization System	Internal Synchronization		
Lens Mount	C Mount		
Power	DC12V		
Power Consumption	Under Approx.20W		
Ambient Conditions	Operating Temperature/Humidity : 0~35°C/10~80%(Non condensing)		
	Storage Temperature/Humidity : 0~60°C/10~95%(Non condensing)		
External Dimensions	71.6(W)x61.5(H)x125(D)mm *Lens, tripod mount and cables not included	71.6(W)x61.5(H)x51.5(D)mm *Lens, tripod mount and cables not included	71.6(W)x61.5(H)x61.5(D)mm *Lens, tripod mount and cables not included
Weight	Approx. 400g *Lens, tripod mount and cables not included	Approx. 250g *Lens, tripod mount and cables not included	Approx. 260g *Lens, tripod mount and cables not included

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.