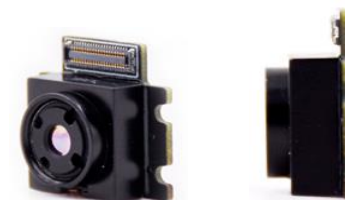


Nano-C:

Self-developed ASIC chip, WLP detector and CPLD, subsupplier independant . Compact design and split structure supported.

Tiny-C:

Self-developed IR ISP chip for low power consumption.



Model	Nano-C	Tiny-C
Detector Type	Uncooled VOx IR detector	Uncooled VOx IR detector
Resolution	640 x 512 pixels or 384 x 288 pixels	256 x 192 pixels or 160 x 120 pixels
Pixel Size	12µm	12µm
Detector Frame Rate	50 / 25Hz	25Hz
Spectral Band	8-14µm	8-14µm
NETD with F#1.0 Lens	≤45mK @ 25°C	≤50mK @ 25°C
TEC	None (uncooled)	None (uncooled)
Image Processing	Non-uniformity Correction (NUC) Temporal filtering Digital detail enhancement (DDE)	Automatic shutter correction
Mirroring	Horizontal - Vertical	
Digital Zoom	1 - 4 X	
Temperature Measurement Range	20°C - +550°C	Industrial: -15°C - +150°C (high gain); 50°C - +550°C (low gain) Medical / Biological: 30°C - 45°C
Measurement Accuracy	±2°C or ±2% of measurement range	Industrial: ±2°C or ±2% of measurement range Medical / Biological: ±0,5°C
Power Supply Range	4,5V DC - 5,5V DC	3.3V DC - 5V DC
Power Consumption@25°C	0,6W (640 x 512) - 0,5W (384 x 288)	240mW
Video Output	Digital Video Analog Video	SPI
Communication Interface	BT656, LVCMOS-8bit, LVDS, USB, CameraLink 1-channel PAL	I2C
Weight (without lens)	≤11,5 grams	<2,5 grams
Dimensions (without lens)	21,0 x 21,0 x 15mm	13,0 x 13,0 x 8mm
Operating Temperature	-40°C - +60°C	-40°C - +80°C
Storage Temperature	-45°C - +85°C	-45°C - +85°C
Humidity	5 - 95%, non-condensing	5 - 95%, non-condensing
Vibration	4.01G, random vibration, all axes	
Shock	80G, 4ms, half-sine wave, three axes, and six directions	25G 11ms, half sine wave, 3 axial directions



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