

NEW

NEC

Infrared Camera Module C100 series

For Easy Integration into a variety of Infrared Imaging Cameras

C100's flexible design allows rapid development

SURVEILLANCE



C100C / C100CT

MONITORING

SECURITY



C100V

INSPECTION

- [320 x 240](#) Uncooled Vox microbolometer
- Long-wave infrared [8-14μm](#)
- Advanced [23.5μm pixel pitch](#) detector
- [Crisp image](#); [Light, compact](#) body
- [Image Quality Improvement](#) functions
- [Display Processing](#) functions
- Selective sensor frame rate: [60Hz](#) or [8.5Hz](#)*1
- High Sensitivity below [50mk](#)
- [Temperature measurement](#) function*2

*1: 8.5Hz is available for C100C, C100V *2: Only C100CT function

Image Quality Improvement



ON



OFF

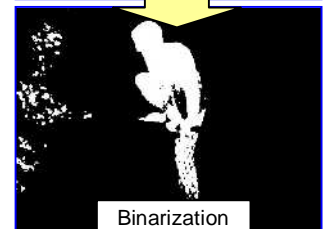
<http://www.nec-avio.co.jp/en/>

NEC Avio Infrared Technologies Co., LTD.

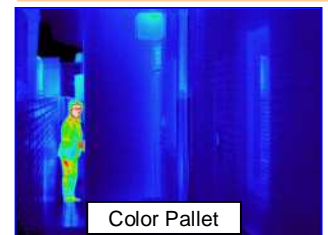
Specifications

Item	C100C	C100CT	C100V	
Detector	320x240 Uncooled Vox microbolometer			
Pixel Size	23.5μm			
Spectral range	8 to 14μm			
NETD (with F/1 lens)	50mk (L range, at 30°C)			
Sensor frame rate	60Hz *8.5Hz available for C100C and C100V			
Dynamic Range (with F/1 lens)	L range: -40°C to 120°C H range: 0°C to 500°C			
Image Quality Improvement	BRIGHTNESS	AUTO, MANUAL(64step)		
	CONTRAST	AUTO, MANUAL(64step)		
	AVERAGING	OFF, L, M, H		
	SHARPNESS	OFF, 1, 2, 3, 4, 5		
	GAMMA Correction	ON, OFF		
Flexible Image Control	GUI			
Display Processing	Polarity	White-hot, Black-hot		
	ZOOM	x1, x2, x4		
	Binarization	available	-	available
	COLOR EMPHASIS	available	-	available
Temperature Measurement	-	available	-	
	reading	-	center point	-
	accuracy	-	+15% or ±15°C *at L Range	-
Color Pallet	-	2 pallets, 256 color steps	-	
Isotherm	-	available	-	
Video Output	NTSC or PAL composite video			
Digital Output	ITU-R, BT656 video data / 16bit raw data		TBD	
Control Interface	RS-232C			
Power supply	12VDC ± 10%			
Power Consumption (at 20 ° C)	Typ. 4.5W (Max 7W) *without rush current			
Size (mm) (without Lens, protrusion)	62(W) x46(H) x50(D)		65(W) x50(H) x100(D)	
Weight (without lens)	150g		310g	
Operating temperature	-30 ° C to + 60 ° C (With 4.5 ° C/W heat sink)		-15 ° C to + 50 ° C (With 5 ° C/W heat sink)	
Case	Without case		With case	
Optional Lens	8mm Lens, 50 °(H), F=1.0			
	14mm Lens, 30 °(H), F=1.4			
	25mm Lens, 17.1 °(H), F=1.0			
	50mm Lens, 8.6 °(H), F=1.0			
Without Lens Model	available	-		

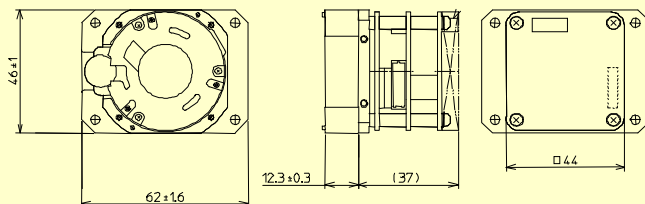
Display Processing



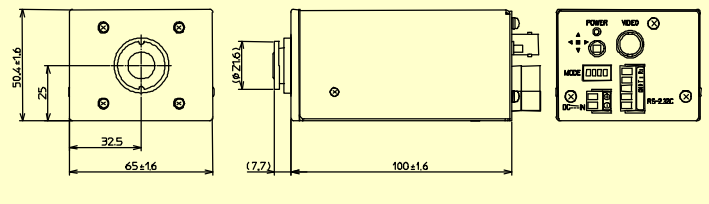
C100CT Functions



Outline: C100C without lens



Outline: C100V with 8mm lens



NEC Avio Infrared Technologies Co., Ltd.

1-5, Nishi-Gotanda 8-chome, Shinagawa-ku,
Tokyo 141-8535, Japan
Phone: +81-3-5436-1614
Fax : +81-3-5436-1395
E-mail: osd@nec-avio.co.jp
Web : <http://www.nec-avio.co.jp/en/>