

THCM-7801B Thermal imaging module



IN GENERAL

7801B series thermal imaging module system integrated high resolution 384×288 pixels FPA detector. Featured with low power consumption, low noise and high quality image, D780 offered continuously infrared thermal imaging video output under wide operating temperature range and image storage function, which meets variety application including industry medical electronic, research, public safety, etc.

MAIN FEATURES

384×288 uncooled FPA detector

50Hz real-time measurement

Customization according to requirement

Light and small size

Multi user-definition image mode

Easy controlling

TECHNICAL SPECIFICATIONS

Item		-7801B	-7801C
Detector characteristics	Detector type	Uncooled FPA microbolometer	
	Array size/format	384×288	
	NETD	≤100mK@f/1,300K,50HZ	
	Frame rate	50HZ	
	Spectral range	8 ~ 14μm	
Image manage	A/D Resolution	14bit	
	Video D/A	10bit	
	Start-up time	<25s (At 25℃ ambient temperature condition)	
Thermal image adjust	Brightness/Gain adjustment	Manual adjust brightness/gain, Automatic adjust brightness and manual adjust gain, Automatic adjust brightness/gain	
	Automatic adjust brightness/gain mode	2 fixed modes, 8 user-defined modes	N/A
	Image polarity	Hot black/hot white	
	Noise reduction	Yes	
	Image enhancement	Yes	
	Calibration	Automatic adjust in start time, manual adjust in stable state	
	Crosshair	ON/OFF	
Image storage	Storage card	Built-in flash memory, up to 100 images	
(Optional)	File format	JPEG	
Power supply	External power	10 ~ 15V DC, 8V±1V DC customized	
	Power consumption	<4.5W(Normal operating at 25℃)	<3.5W(Normal operating at 25℃)

	Driver for lens focus	Driver capability 8V 100mA	
Environment	Operating temperature	-40 C ~ +60 C	
	Humidity	-40 C ~ +70 C	
Physical characteristics	Weight	≤280g	
	Dimensions	66mm×63.5mm×52mm	
Interface	External DC input	Yes	
	Video output	Dual PAL	
	Digital video output	N/A	16 bit digital output
	Remote control interface	RS232,RS422/RS485 customized	N/A
	USB(Optional)	Image measurement data transfer to PC	N/A