INTELLISYSTEM TECHNOLOGIES

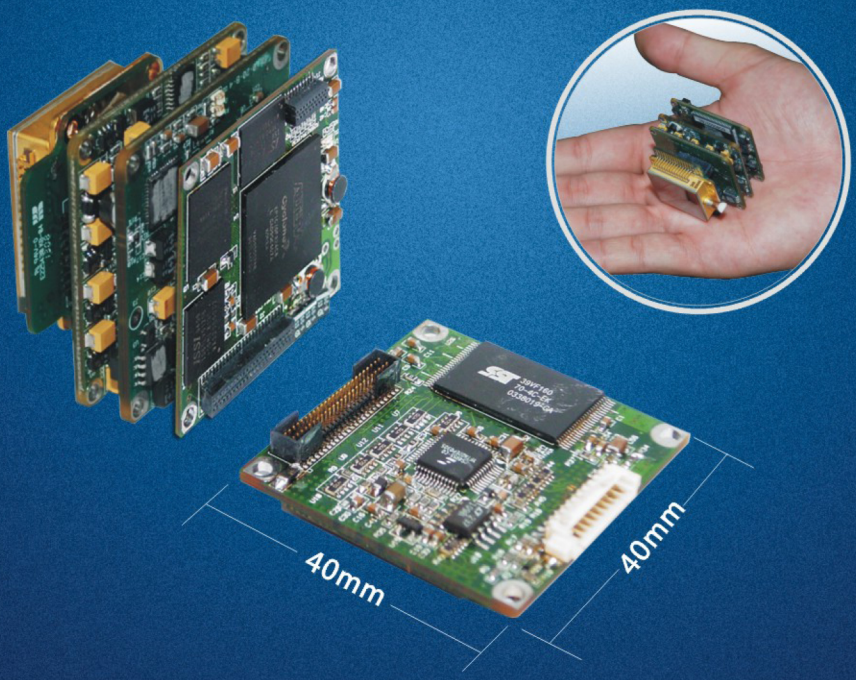
Thermal Imaging Module

Uncool type

ThermalTronix

TT-1780D-MPS Series

384×288 uncooled FPA detector
50Hz realtime measurement
Customization according to requirement



ThermalTronix TT-1780D-MPS Series

Thermal Imaging Module

Light and small size

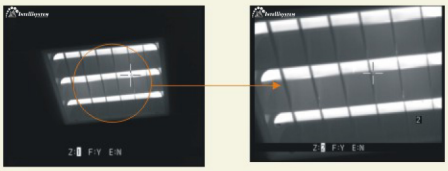
TT-1780D-MPS series thermal imaging module system integrated high resolution 384x288 pixels FPA detector. Featured with low power consumption, low noise and high quality image,TT-1780D-MPS offered continuously infrared thermal imaging video output under wide operating temperature range and image storage function, which meets variety application including industry medical electronic, research, public safety and etc.

Easy Controlling

Parameter

Item		TT-1780DB-MPS	TT-1780DC-MPS
Detector characteristics	Detector type	Uncooled FPA microbolometer	
	Array size/format	384×288	
	NETD	≤60mK@f/1, 300K, 50Hz	
	Frame rate	50Hz	
	Spectral range	8-14μm	
Image manage	A/D Resolution	14Bit	
	Video D/A	10Bit	
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	
	Electronic zoom	2X	
	Noise reduction	YES	
	Image enhancement	YES	
	Calibration	Automatic adjust in start time, manual adjust in stable state	
	Crosshair	On/off	
Power supply	External power	10~15V DC，8V±1V DC 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℃-+60℃	
	Humidity	-40℃-+70℃	
Physical characteristics	Weight	≤330g or ≤280g Optional	
	Dimensions	φ76×71mm or 66×63.5×52mm optional	φ76×66mm or 66×63.5×52mm optional
Interface	External DC input	Yes	
	Video output	PAL	
	Digital video output	N/A	16bit digital output
	Command interface	Yes,5 button keyboard	
	Remote control interface	RS232，RS422/RS485 customized	N/A

▲The information contained in this document is subject to change without notice



2X electronic zoom

Hotblack/Hotwhite reverse display

Multi user-defination image mode

Brightness/gain adjustment

Customization according to requirement

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