

### OBSETECH FT - Core series

Very reliable uncooled LWIR shutter thermal imaging core with excellent impact and vibration resistance designed for multiple integrations: vehicles, UGVs, UAVs, fire control systems as well as many other systems. FT - Core supports analog and digital video output and auto-focus.

Detector	
<b>Type</b>	Uncooled VOx Infrared FPA
<b>Pixel resolution</b>	640×512 or 1024x800 (optional) or 1280 x 1024 (optional)
<b>Pixel pitch</b>	12μm
<b>Spectral range</b>	8~14μm
<b>Sensitivity (NETD)</b>	≤40mK @ f/1.0 / 25°C
Image	
<b>Frame rate</b>	50Hz
<b>Analog video</b>	1 Channel PAL / NTSC (switchable at any time)
<b>Digital video</b>	LVC MOS / BT.656 / BT.1120 / LVDS. (H.264 optional)
<b>Digital zoom</b>	1.0 ~ 8.0× Continuing Zooming (step 0.1), Zoom in any area
<b>Color palettes</b>	Support 18 types
<b>Polarity</b>	Black hot / White hot
<b>Reticle</b>	Reveal / Hidden / Shift
<b>Compensation</b>	Shutter
<b>Image processing</b>	Non-uniformity correction (NUC), Digital filter noise reduction (DNR), Digital detail enhancement (DDE), High temperature warning function, Fire alarm function
<b>Image mirror</b>	Right-left / Up-down / Diagonal
<b>Brightness and Contrast</b>	Manual / Auto 0 / Auto 1
Power	
<b>Power supply range</b>	5 - 24V DC
<b>Typical service voltage</b>	12V DC
<b>Power protection</b>	Over-voltage / Under-voltage / Reverse Connection
<b>Typical power consumption</b>	≤ 2.0 W (at 25°C)
Interface	
<b>Serial communication protocol</b>	RS-232, RS-485 (support PELCO-D protocols only)
Environment	
<b>Operating temperature</b>	-40°C ~ +60°C external temp
<b>Storage temperature</b>	-45°C ~ +85°C external temp
<b>Humidity</b>	5-95% non-condensing
<b>Certification</b>	ROSH, REACH
Physical Characteristic	
<b>Dimension</b>	44.5mm x 44.5mm x 43mm (W x H x L) (without lens)
<b>Weight</b>	< 85g (without lens)
<b>Lens interface</b>	M34/0.5
<b>Mounting interface</b>	flange
Optional features	
Various output boards available. Multiple lenses available.	



