



IP-67 认证的外壳

SCIENTIFIC THERMAL INFRARED CAMERA.

The M400x is a cooled, high-performance scientific thermal infrared camera designed to provide excellent image quality and impressive thermal sensitivity. It features our unique real-time calibration and is an excellent choice for a variety of scientific and industrial applications.

关键性能及优势

HIGH FRAME RATE

Maximum data throughput is larger than 1 Gigabit/s. High performance electronics produce thermal images at rates of more than 310 fps in full-frame mode. Sub-windows can be acquired at rates up to 8 000 fps.

HIGH-SPEED INTERNAL MEMORY

1 GB (expandable) memory for autonomous operation.

高灵敏度

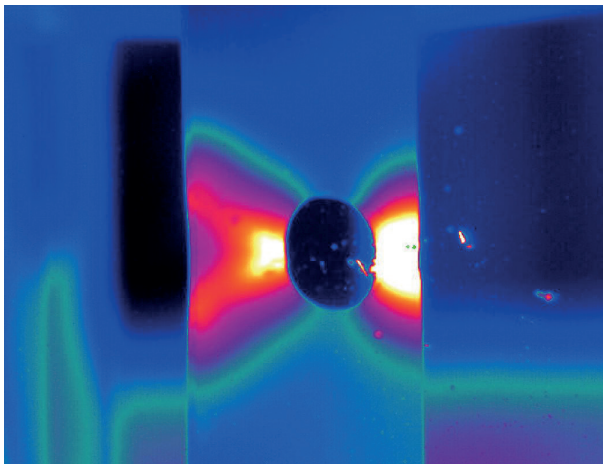
可检测最小 18 mK 的温度差异。

先进的标定

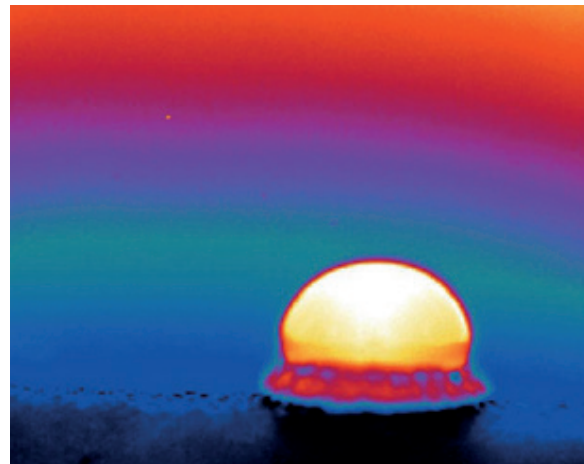
独家专有的实时红外图像处理包括非均匀性校正, 辐射温度测量, 自动曝光控制 (AEC) 和增强的高动态范围成像 (EHDRI)。这些独特的功能, 使得科学家获得易用性和操作灵活性的同时, 可在整个热像仪的温度范围内获得准确的温度测量。

典型应用案例

Fatigue Testing

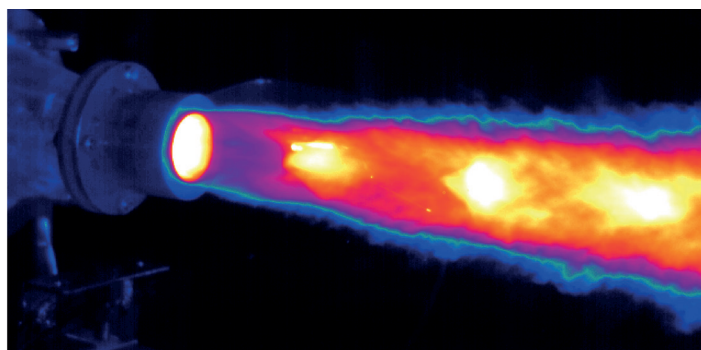


Transient heat transfer



FAST M400x	
参数	M400x
DETECTOR TYPE	Cooled MCT
波段范围	1.5 μm to 5.1 μm
空间分辨率	640 \times 512 pixels
DETECTOR PITCH	15 μm
APERTURE SIZE	F/3
帧频 (FULL FRAME)	310 Hz @ 640 \times 512
最高帧频 (SUBWINDOW)	1 100 Hz @ 320 \times 256 8 000 Hz @ 136 \times 2
典型 NETD	18 mK
镜头接口	卡口接口

规格如有变更，恕不另行通知。其他配置可根据请求提供。



Combustion studies

OTHER SPECS & FEATURES	
旋转斯特林闭环制冷机	Gig-E
无需黑体永久标定 (up to 150 °C)	Camera Link
高温标定至 2 500 °C (optional)	Trigger In, Trigger Out
16 bits dynamic range	SDI, GPS, IRIG-B, RS232 and thermistor ports
高速内置缓存: up to 32 GB	Lock-in recording
自动曝光控制 (AEC)	重量 (不包括镜头): < 6 kg
增强型高动态范围成像 (EHDRI)	尺寸(不包括镜头): 12.6" \times 7.8" \times 6.9" 321 mm \times 199 mm \times 176 mm

更多的信息 | TELOPS.COM

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