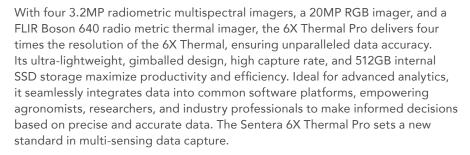


# **6X** Thermal Pro

#### Precision and Clarity Redefined





- Maximize Productivity: Light weight, fast capture rate, synchronized image capture, and gimbal allow for faster & longer flights without sacrificing data quality
- Ease-of-use: Plug and play integration, rig processing support, time of capture geo-tagging, and large internal storage streamline your workflow
- Easy Integration: 6X Thermal Pro is already compatible with many popular UAS platforms and is easy to integrate with other systems using the common interfaces and I/O options
- Accuracy: Paired with an incident light sensor, calibrated reflectance panel, and gimbal, 6X Thermal Pro is ready to produce radiometrically accurate data out of the box

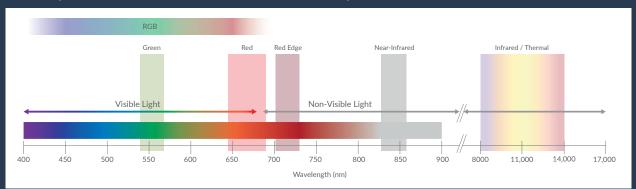


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#### **Key Features**

- Four 3.2MP global shutter multispectral imagers, one 20MP RGB imager, and one 640 radiometric FLIR Boson imager
- Synchronized image capture for all channels; supports rig processing
- Full metadata tagging with geolocation and image characteristics
- Open and standardized data formats
- Incident light sensor and calibrated reflectance panel included
- NDAA Compliant

### The spectral resolution of the 6X Multispectral + RGB + Thermal Sensor





#### SPECIFICATIONS\*\*

# **6X** Thermal Pro

	Resolution	2048px by 1536px (Multispectral) 5184px by 3888px (RGB) 640 x 512 (Thermal)
	Shutter Type	Global (Multispectral) Electronic Rolling Shutter (RGB) Shutterless (Thermal)
	Sensor	Sony IMX147 (RGB) Sony IMX265 (Multispectral) FLIR Boson 640R (Thermal)
	Power Input	10.5 - 26V
	Power Consumption	15W Typical, 18W Max
	Capture Rate	5 FPS (0.2s interval)
	Storage	512 GB Internal SSD
	Filter/Sensitivity (custom filtering is available)	Green: 550nm CWL x 20nm Red: 670nm CWL x 30nm Red Edge: 715nm CWL x 10nm NIR: 840nm CWL x 20nm RGB: IR cut 650nm Thermal Infrared: Radiometric: 8um to 14um
	Interfaces	USB-C 3.0, Gigabit Ethernet, PPS, Serial, Discrete I/O
	Supported Protocols	DJI, MAVlink V1 & V2, Custom
	Image Format	8-bit JPEG (RGB), 12-bit TIFF (MSP), 16-bit TIFF (Thermal)
	Weight (Sensor only)	290g
	Weight (With gimbal)	Skyport: 505g Smart Dovetail: 525g Gremsy Hyper Quick: 500g
		ILS adds 58g to total
	GSD @200ft (60m)	1.0in / 2.6cm (MSP), 0.4in / 1.0cm (RGB), 3.4in / 8.75cm (LWIR)
	Field of View	47° HFOV (MSP and RGB) 50° HFOV (Thermal)
	Dimensions (Sensor Only)	79.5mm x 66mm x 67.5mm
	Dimensions (With gimbal)	111.8mm x 126.2mm x 106.4mm



#### **COMPATIBILITY\*\***

#### Fully Integrated:

DJI		M350, M300, M210, M200
Inspire	ed Flight	IF800 Tomcat, IF1200A
Freefly	1	Astro

#### **Custom Integration Options:**

Gimbal Interfaces:		

# Non-Gimbal Interfaces: JST GH Serial, Power In, Ethernet, PPS PWM USB-C USB 2-56 Threaded Mounting Holes Mounting 6 Locations

## Key Use Cases

Scan QR code to browse support documentation

- Evaporation analysis
- Water stress prediction and monitoring
- Mapping: Multispectral, RGB, DSM/Elevation, Thermal
- Residue cover, carbon monitoring, and conservation practice verification
- Crop health, damage, disease detection, nutrient status, and stress
- Forest fire detection, active flame identification
- Soil and vegetation moisture levels

<sup>\*\*</sup>Specifications are subject to change without notice

<sup>\*\*</sup>With appropriate post-processing