



Compatible Payload Specifications

Inspection Cameras

RTS5 Inspection Camera	
Drone Compatibility	HEIFU Pro VTOne BVQ418
Size (D x H)	64 mm x 94 mm
Weight	320 g
Power	10 w
Sensor Types	Visible + Thermal
Resolution	1280 x 720 1920 x 1080
Maximum FOV	60°
Zoom	x40 = x20 (optical) + x2 (digital)
Sensor	Visible: 400 nm - 700 nm Delay < 40 msec
Gimbal	(Non-continuous 360° yaw) Yaw range: [-180°, 180°] Pitch range: [-135°, 45°]
Thermal Camera	LWIR uncooled (8-14 µm) Resolution: 640 x 480 Zoom: x4 digital HFOV: 18°



CTS Inspection Camera	
Drone Compatibility	HEIFU Pro VTOne BVQ418
Size (L x W x H)	59 mm x 43 mm x 75 mm
Weight	160 g
Power	~3.5W
Sensor Types	Visible + Thermal
Resolution	Visible: 1280 x 720 1920 x 1080 Thermal: 640 x 480
Maximum FOV	60°
Zoom	x40 = x20 (optical) + x2 (digital)
Sensor	Visible: 400 nm - 700 nm
Gimbal	Yaw range: [-165°, 165°] Pitch range: [-135°, 45°] Angular Vel: 105°/s
Thermal Camera	LWIR uncooled (8-14µm) Resolution: 640 x 480 Zoom: x4 continuous digital HFOV: 32°



AS Inspection Camera	
Drone Compatibility	HEIFU Pro VTOne BVQ418
Size (D x H)	90 mm x 120 mm
Weight	640 g
Power	10 W
Sensor Types	Visible + Thermal
Resolution	Visible: 1280 x 720 1920 x 1080 Thermal: 640 x 480 HD
Maximum FOV	60°
Zoom	X80 = x40 (optical) + x2 (digital)
Sensor	Visible: 400 nm - 700 nm
Gimbal	Yaw range: [-165°, 165°] Pitch range: [-135°, 45°]
Thermal Camera	LWIR uncooled (8-14µm) Zoom: x8 digital HFOV: 17.5°



SLAS Inspection Camera	
Drone Compatibility	HEIFU Pro VTOne BVQ418
Size (L x W x H)	182 mm x 140 mm x 134.5 mm
Weight	870 g
Power	9 W (Avg.); 20 W(Max.)
Sensor Types	4 (30X Optical Zoom Camera, 640x512 Thermal Sensor, High-Precision Laser Rangefinder, 2K Wide-Angle Lens)
Resolution	Visible: 1280 x 720 1920 x1080 Thermal: 640 x 480
Maximum FOV	60°
Zoom	x40 = x20 (optical) + x2 (digital)
Visible Sensor	4K 8MP 30X optical zoom 2K wide-angle lens High-accuracy laser rangefinder
Camera Zoom	Lens: 30X Optical Zoom (180X Hybrid Zoom) Focal Length: 4.8 mm to 149 mm (±5%) Image Sensor: 1/2.7 inch, 8 MP effective resolution Aperture: F1.3 to F4.8 (±5%) Field of View (FOV): Horizontal 62° Video Recording Res: 4K @ 30 fps; 2K @ 30 fps; 1080p @ 30 fps; 720p @ 30 fps Still Photo Resolution: 4K (4096 x 2160)
Thermal Sensor	Resolution: 640 x 512 Digital Zoom: 4X Lens: Focal Length: 19 mm; Aperture: F1.1. Focus: Fixed, with a thermalization Wavelength Range: 8 ~ 14 μm Temperature Accuracy/Range: High Gain: ±2 °C (-20 ~+150°C) Low Gain: 3 °C (0 ~ +550 °C)
Gimbal	Type: 3-axis stabilized, with 360° continuous yaw rotation Angular Vibration Range: ±0.01° Controllable Pitch Angle: -90° ~ +25° Controllable Yaw Angle: 360° continuous Roll Angle: -45° ~ +45°



Dome HD Inspection Camera	
Drone Compatibility	VTOne
Size (L x W x H)	65 mm x 43 mm x 50 mm
Weight	85 g
Power	12 W
Sensor Types	Visible
Resolution	1920 x 1080, 30fps
Maximum FOV	90°
Zoom	x6 digital
Sensor	1/2.7-inch CMOS 2 MP effective resolution
Gimbal	Only pitch axis Controllable Pitch Angle: -90°~+25°



UHD Inspection Camera	
Drone Compatibility	HEIFU Pro VTOne BVQ418
Size (L x W x H)	55 mm x 55 mm x 70 mm
Weight	95 g
Power	12 W
Sensor Types	Visible
Resolution	1920 x 1080, 30fpsV
Maximum FOV	93°
Zoom	6x digital
Recording Resolution	4K/2K/1080p
FPS	30 fps
Sensor	Sony 1/1.7-inch, 8 MP
Gimbal	Angular Vibration Range: $\pm 0.01^\circ$ Controllable Pitch Angle: $-135^\circ \sim +45^\circ$ Controllable Yaw Angle: $-160^\circ \sim +160^\circ$ Controllable Roll Angle: $-30^\circ \sim +30^\circ$