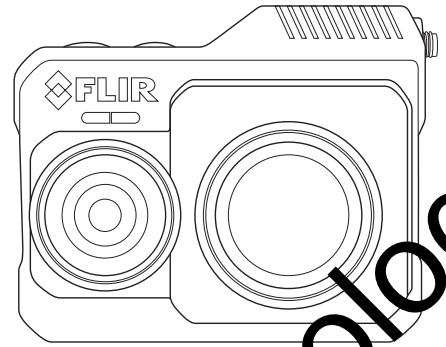




## Specifications

Overview	Duo Pro R 640	Duo Pro R 336
Thermal Imager	Uncooled VOx Microbolometer	
Spectral Band	7.5 – 13.5 $\mu$ m	
Thermal Sensitivity	< 50 mK	
Thermal Sensor Resolution Options	640 x 512	336 x 256
Thermal Lens Options	13 mm: 45° x 37°	9 mm: 35° x 27°
	19 mm: 32° x 26°	13 mm: 25° x 19°
	25 mm: 25° x 20°	19 mm: 17° x 13°
Thermal Frame Rate	30 Hz	
Visible Sensor Resolution	4000 x 3000	
Visible Camera FOV's	56° x 45°	56° x 45°
Radiometry		
Measurement Accuracy	+/- 5 C or 5% of readings in the -25°C to +135°C range +/- 20 C or 20% of readings in the -40°C to +550°C range	
Physical Attributes		
Size	85 x 81.3 x 68.5 mm 85 x 86.5 x 68.5 mm (640/25 mm lens only)	
Weight	325 g 375 g (640-25 mm only)	325 g
Image Processing & Display Controls		
Imaging Modes	IR-only, Vis-only, Picture-in-Picture (IR in Vis)	
MSX Image Enhancement?	Yes	
Multiple Color Palettes?	Yes – Adjustable in App and via PWM	
IMU Sensor		
GPS?	Yes (GPS, GLONASS)	
Other Sensors	Accelerometer, Gyroscope, Magnetometer, Barometer	
Interfaces		
USB 3.0	Power in, USB Mass Storage	
10-Pin Accessory Port	Power in, Analog Video Out, PWM, MAVLink	
Micro-HDMI	Digital Video Out	
Input Voltage	5.5 - 26.0 VDC (10-pin JST Port)	
	5.0 VDC (USB-C Port)	
Power Dissipation (avg)	10 W	10 W
Remote Control?	Yes - PWM (3 channels), MAVLink	
MAVLink interface?	Yes	
Digital Video Output	1080p60, 1080p30, 720p60	
Mounting Features	1/4"-20 TPI Tripod Mounts (x2, bottom surface)	
Environmental		
Operating Temperature Range	-20°C to +50°C	
Storage Temperature Range	-20°C to +60°C	
Operational Altitude	to 38,000 feet	



Compliments of Phase 1 Technology

PORTLAND  
Corporate Headquarters  
FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
USA  
PH: +1 866.477.3687

FLIR Systems, Inc.  
6769 Hollister Avenue  
Goleta, California 93117  
USA  
PH: +1 201.368.9700

FLIR Systems, Inc.  
9 Townsend West  
Nashua, NH 03063  
USA  
PH: +1 866.477.3687

www.flir.com  
NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2017 FLIR Systems, Inc. All rights reserved. 0817 17-2249