



Pilotix T640 CVBS+USB is a thermal FPV camera equipped with a VO uncooled IRFPA sensor providing 640×512 resolution with 12μm pixel size. The unit features a 9.1mm focal length lens with f/1.0 aperture, delivering 48.1° horizontal and 38.4° vertical field of view. Video output supports both digital and analog formats with 2D and 3D noise reduction processing. The camera operates on 5-12V input with 0.5W consumption and functions within -20°C to 40°C temperature range at 20-95% relative humidity. Compact dimensions of 30.1×20×20mm and 8g weight make it suitable for aerial platform integration.

Product details	
Model	T640 CVBS+USB (9mm)
SKU	8531
Image sensor	
Sensor	VO, Uncooled IRFPA
Resolution	640x512
Pixel size	12x12 μm
Noise reduction	2D, 3D
Video output	Digital, Analog
Lens	
Iris	F1.0
Focal length	9.1 mm
Horizontal view	48.1°
Vertical view	38.4°
Electrical specifications	
Input voltage	5 - 12 V
Consumption	0.5 W
Mechanical specifications	
Dimensions	30.1 x 20 x 20 mm

Weight	8 g
Operating conditions	
Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Common	
Warranty	2 years

Wiring diagram

