



Pilotix T640 CVBS+USB thermal imaging FPV camera featuring a VO uncooled IRFPA sensor with 640×512 resolution and 12μm pixel size. The unit operates at 50/60 fps frame rate with NETD of 40-25mK for thermal sensitivity. Equipped with a 9.1mm focal length lens providing 48.1° horizontal and 38.4° vertical field of view with F/1.0 aperture. Supports both digital and analog video output with 2D and 3D noise reduction. Features automatic and manual NUC calibration with temperature control capability and configurable color palettes via PC software or serial port commands. Operates on 5-12V DC input with 0.5A consumption. Compact design measuring 30.1×20×20mm and weighing 8g.

Product details	
Model	T640 CVBS+USB (9mm) CZ
SKU	12156
Image sensor	
Sensor	VO, Uncooled IRFPA
Resolution	640x512
Frame rate	50 fps (PAL)/60 fps (NTSC)
Pixel size	12x12 μm
Noise reduction	2D, 3D
Video output	Digital, Analog
Thermal imaging	
NETD	≤40mK @ 25°C
Color palettes	Yes (via PC software or serial port commands)
NUC calibration	Auto, Manual
Temperature control	yes
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

