



Pilotix T640 CVBS USB FPV camera featuring a VO uncooled IRFPA thermal sensor with 640×512 resolution and 12μm pixel size. Operates at 50/60 fps frame rate with NETD values of 40/25mK for thermal sensitivity. Equipped with a 4.1mm focal length lens at f/1.2 aperture providing 100° horizontal and 82° vertical field of view. Supports both digital and analog video output with 2D and 3D noise reduction. Includes automatic and manual NUC calibration with temperature control capability and configurable color palettes via PC software or serial commands. Operates on 5-12V input with 0.5W consumption. Compact dimensions of 42×20×20mm at 8g weight, operating from -20°C to +40°C.

Product details	
Model	T640 CVBS USB (4mm) CZ
SKU	12106
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	F1.2
Focal length	4.1 mm
Horizontal view	100°

Vertical view	82°
Electrical specifications	
Input voltage	5 - 12 V
Consumption	0.5 W
Mechanical specifications	
Dimensions	42 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

