T640 CVBS+USB (9mm) v1.0 CZ

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Pilotix T640 CVBS+USB (9mm) v1.0 CZ FPV camera featuring a VO uncooled IRFPA thermal sensor with 640×512 resolution and 12µm pixel size. The unit captures imagery at 50 fps and provides both digital and analog video outputs. Equipped with a 9.1mm focal length lens with F/1.0 aperture, delivering 48.1° horizontal and 38.4° vertical field of view. The thermal imaging system offers NETD of 40/25mK with 2D and 3D noise reduction, automatic and manual NUC calibration, and temperature measurement capability from -20°C to 60°C. Color palettes are configurable via PC software or serial port commands. Operates on 5-12V DC input with 0.5W consumption. Compact design measuring 38×23×23mm and weighing 30g. Functions in temperatures from -40°C to 80°C.

Product details	
Model	T640 CVBS+USB (9mm) v1.0 CZ
SKU	12238
Image sensor	
Sensor	VO, Uncooled IRFPA
Resolution	640x512
Frame rate	50 Hz
Pixel size	12x12 µm
Noise reduction	2D, 3D
Video output	Digital, Analog
Thermal imaging	
NETD	≤40 mK @ 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	38 x 23 x 23 mm
Weight	30 g
Operating conditions	
Humidity range	20 - 95 % RH (non-condensing)
Operating temperature	-40 - 80 °C
Temperature measurement range	-20 - 60 °C
Storage temperature	-45 - 85 °C
Common	
Package contents	Video signal cable (145 mm length), OSD cable (550 mm length)
Warranty	2 years

Wiring diagram

