T640 CVBS+USB (4mm) v1.0 CZ

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Pilotix T640 CVBS+USB (4mm) v1.0 CZ FPV camera equipped with a VO uncooled IRFPA thermal sensor providing 640×512 resolution with 12µm pixel size. Features a 4.1mm focal length lens with F/1.2 aperture delivering 100° horizontal and 82° vertical field of view. The thermal imaging module achieves 40mK NETD at 25°C with 2D and 3D noise reduction processing. Supports both digital and analog video output at 50fps with configurable color palettes via PC software or serial commands. Operates on 5-12V input with 0.5W consumption, measuring 42×21×21mm at 30g weight. Functions within -40 to 80°C operating temperature range with temperature measurement capability from -20 to 60°C.

Product details	
Model	T640 CVBS+USB (4mm) v1.0 CZ
SKU	12237
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	F1.2
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 21 x 21 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

