THERMAL EXPERT™

Mobile Infrared Camera

TE-Q1



6.8 mm Lens

Thermal Expert

SCENE RANGE

-10°C to 150°C



13 mm Lens
Thermal Expert_PLUS
SCENE RANGE
-10°C to 120°C



6.8 mm Lens
Thermal Expert_PRO
SCENE RANGE
-10°C to 250°C

Description

High performance

- High resolution: 384 x 288 (17 µm pitch)

- High sensitivity : \leq 50 mK @ f/1.0, \leq 80 mK @ f/1.3

Features

- Temperature measurement for whole pixels
- Convenient image view functions with infrared and visible
- Easy graphical user interface (digital zooming, color Palette.)
- Interchangeable Lens

THERMAL EXPERT™ for Android

- Color palettes (12 color maps)
- Storage images (IR, visible with snapshot and video)
- Digital zooming (384 x 288, 320 x 240, 240 x 160, 160 x 120)
- Image view with visible (50:50, Twin, Overlay, Floating)
- Temperature Measurement (Alarm, Min/Max, Point/Line/Rectangle/Circle profile)
- Report (Generate pdf report)
- Level and Span function (High Definition)

THERMAL EXPERT™ for Windows

- Realtime Analysis Tool
- Check the temperature anywhere in picture using mark of Dot, Line, Square
- Alarm with sound by user's setting temperature degree
- Save and Load infrared Image with mark
- Saving the movie with mark is being implemented
- AIE Program (Adaptive Image Enhancement)



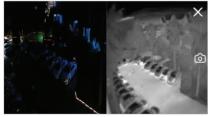
Level and Span



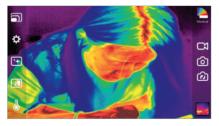


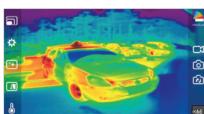
Images from the THERMAL EXPERT™

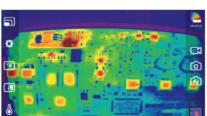












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Specifications

Array format	384 x 288
Pixel pitch	17 μm
Wavelength band	8 ~ 14 μm (Longwave Infrared)
Sensitivity	≤ 50 mK@F/1, 300 K
	≤ 80 mK@F/1.3, 300 K
Frame rate	< 9 Hz
Scene range temperature	-10 °C ~ 150 °C (PLUS : -10 °C ~ 120 °C, PRO : -10 °C ~ 250 °C
Operating temperature	-10 ℃ ~ 50 ℃
Power consumption	≤ 500 mW
Weight	< 27 g (with lens)
Dimensions(WxHxD)	47 mm x 25 mm x 16 mm (Without Lens)
Interface	Micro USB or USB-C
Platform	Android, Windows
Type of lens	Wide: 6.8 mm f/1.3
	Narrow: 13 mm f/1.0
FOV[°]	Wide FOV (default): 56.3°(H) x 41.8°(V) - 71.4°(diagonal
	Narrow FOV(option): 28.7°(H) x 21.7°(V) - 35.3°(diagon
Focus range	Wide FOV: 0.2m to infinity
	Narrow FOV: 0.4m to infinity

TE-Q1 Dimensions





Range Performance

