

COLLEGE OF ENGINEERING KIDANGOOR

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No:CEK/D/315/2022

Dated: 20.05.2022

QUOTATION NOTICE

Competitive quotations are invited from qualified firms for the supply of two numbers of **Thermal Imaging Camera** with specification mentioned below:

Serial no.	Name . Thermal Imaging Camera	Specifications		Quantity
		Thermal pixel size	12 μm	
1		Thermal resolution	19,200 pixels (160 × 120)	
		Thermal sensitivity	70 mK	
		Object temperature range(s)	-20° to 120°C (-4°F to 248°F) 0°C 400°C (32°F to 752°F)	
		Certifications	MFi (iOS version), RoHS, CE/FCC, CEC-BC, EN62133	
		Operating temperature	0°C to 35°C (32°F to 95°F), battery charging 0°C to 30°C (32°F to 86°F)	
		Non-operating temperature	-20°C to 60°C (-4°F to 140°F)	

The last date and time for receiving quotations: 31-05-2022, 11.00 AM

Date and time for opening quotations: 31-05-2022, 3.00 PM

The rates of Govt Quotations are applicable for these quotations also. The decision taken in the matter by the undersigned will be final.

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Encl: Detailed specification of Thermal Imager is attached herewith



Thermal imager specifications

Thermal pixel size 12 μm

Thermal resolution 19,200 pixels (160×120)

Thermal sensitivity 70 mK

Object temperature range(s) -20° to 120°C (-4°F to 248°F) 0°C to 400°C (32°F to 752°F)

Certifications MFi (iOS version), RoHS, CE/FCC, CEC-BC, EN62133

Operating temperature 0°C to 35°C (32°F to 95°F), battery charging 0°C to 30°C (32°F to

86°F)

Non-operating temperature -20°C to 60°C (-4°F to 140°F)

Size (w × h × d) $68 \times 34 \times 14 \text{ mm} (2.7 \times 1.3 \times 0.6 \text{ in})$

Weight (incl. battery) 36.5 g

Drop tested Drop from 1.8 m (5.9 ft)

 $\begin{array}{lll} \text{Spectral range} & 8-14 \ \mu\text{m} \\ \text{Visual resolution} & 1440 \times 1080 \\ \text{HFOV/VFOV} & 50^{\circ} \pm 1^{\circ} / 43^{\circ} \pm 1^{\circ} \\ \end{array}$

Frame rate 8.7 Hz

Focus Fixed 15 cm – infinity

Measurement

Accuracy ±3°C (5.4°F) or ±5%, (59°F to 95°F) and the scene is within 5°C

to 120°C (41°F to 248°F)

Emissivity correction Matte, Semi-Matte, Semi-Glossy, Glossy

Measurement correction Emissivity; Reflected apparent temperature (22°C / 72°F)

Shutter Automatic/Manual

Power

Battery life Approximately 1 hr

Battery charge time 40 min

Video Male Lightning (iOS), Male USB (Android)

Charging Female USB (5V/1A)

App

Image presentation modes Infrared, visual, MSX

VividIR

Palettes Gray (white hot), Hottest, Coldest, Iron, Contrast, Arctic, Lava,

and Color Wheel

Video and image capture Video and photo, saved as 1440 × 1080

File formats Radiometric JPG, MPEG-4 (file format MOV (iOS), MP4

(Android))

Spot measurements Hottest, Coldest, and 3 spot measurement

Adjustable MSX distance 0.3 m – infinity

Visual battery indicator 0-100%



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