

# Product Datasheet

## CVUTSeek



**FAKULTA  
ELEKTROTECHNICKÁ  
ČVUT V PRAZE**

### General Information

Parameter	Description
Manufacturer	Czech technical university in Prague
Release Date	May 2024
Product Website	<a href="https://github.com/Doktojak/CVUTSeek">https://github.com/Doktojak/CVUTSeek</a>

### Technical Specifications

Dimension	Size [cm]	Weight [Kg]
Height	36,5	2.6
Width	20	
Depth	25,5	
Performance specification		Details
Processor		Broadcom BCM2711, Quad core Cortex-A72
Memory		4 GB
Storage		32 GB
Connectivity	Details	
Wireless	Capable of wireless connectivity	
Ports	2x USB 2.0, 2x USB 3.0, 1x 1 Gb ethernet, 2x micro-HDMI	
Display	Details	
Type	Capacitive touchscreen	
Size	4.3 inch	
Resolution	800x480	
IR specification		Details
Type		Uncooled microbolometer
Resolution		320x240 pixels
Pixel pitch		12 $\mu\text{m}$
Spectral range		7.8 $\mu\text{m}$ - 14 $\mu\text{m}$
FOV (HFOVxVFOV)		24° x 18°
Fixed Focus Distance:		38 mm
Measurement area		15 mm x 11 mm
Spot size		45 $\mu\text{m}$ /pixel
NETD		<100 mK
Image frequency		18 Hz

## Features

- **Measurement accuracy:** The greater of  $\pm 5^{\circ}\text{C}$  or 5% between  $5^{\circ}\text{C}$  to  $140^{\circ}\text{C}$  scene temperatures. Typical performance of  $\pm 10\%$  between  $140^{\circ}\text{C}$  to  $330^{\circ}\text{C}$  scene temperatures
- **Supported units:**  $^{\circ}\text{C}$ ,  $^{\circ}\text{F}$ , K
- **Saved image format** .PNG
- **Saved raw data format** .CSV
- **Saved video format** .AVI
- **Number of color palettes:** 22
- **Additional Features:** Reference thermocouple port, Manual emissivity correction, Manual/Automatic temperature scale

## Accessories & Packaging

Accessories	Details
Included Accessories	Power adapter (EU), HDMI to micro-HDMI adapter, HDMI-HDMI cable

## Support

Service	Details
Support Contact	<a href="https://github.com/Doktojak/CVUTSeek">https://github.com/Doktojak/CVUTSeek</a>
Support Email	doktojak@fel.cvut.cz

## Notes

The product is in early stages of development and may have some undiscovered bugs. If found please report so that it can be worked on.

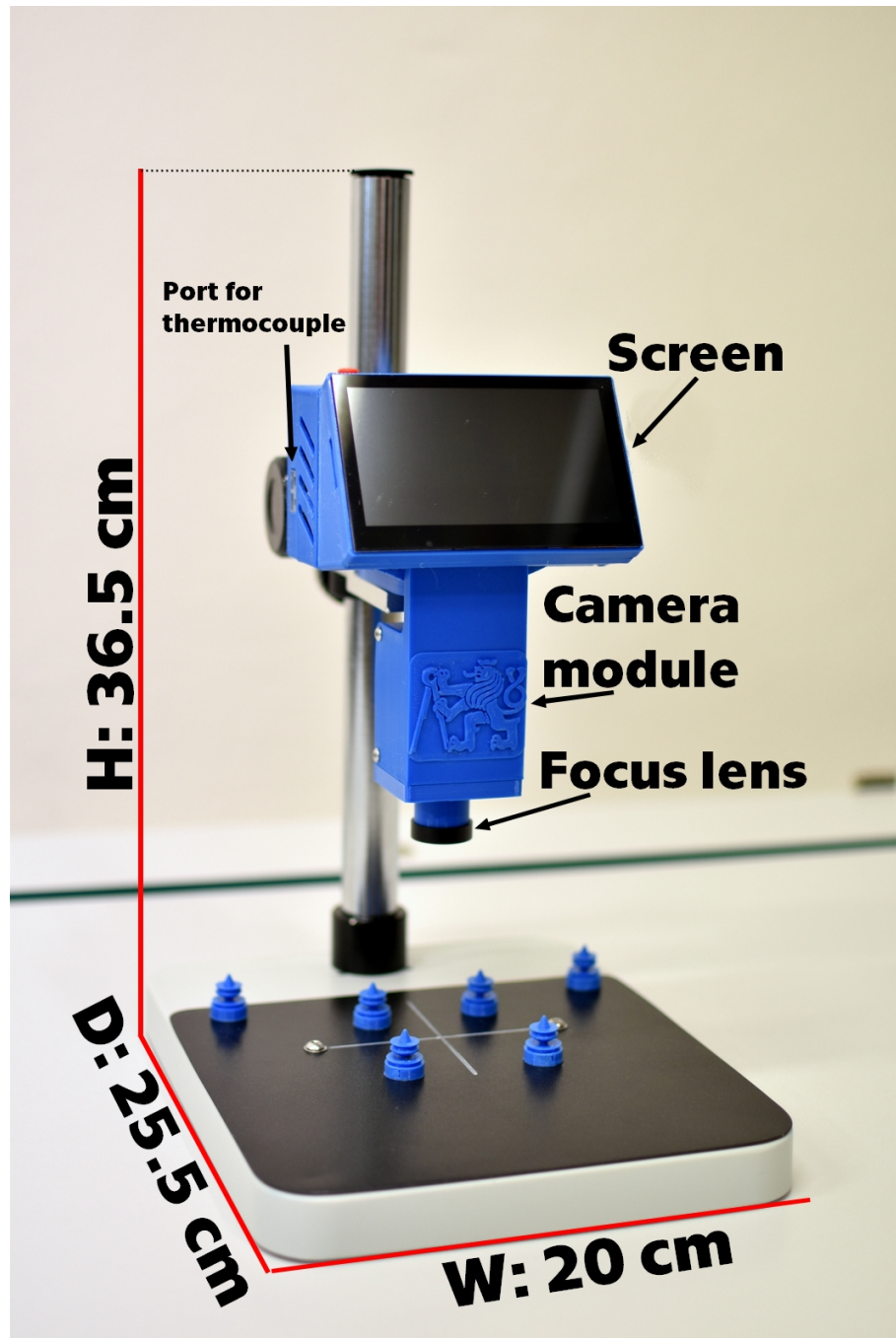


Figure 1: Product photo