

V88-T

Gas Detection



Introducing the New Gas Detection Camera from SATIR, following on from the V-Series range we have re-designed the new camera to improve the performance of the camera in terms of operation and ergonomics.

The V88-T has been designed with a new platform that enables easy operations and control of the camera, we still incorporate both normal and gas mode operation for gas detection and normal inspection.



Key Features

- Various Gases can be detected
- Built-in 16-Megapixel Visible Light Camera
- Recorded fully radiometric IR-Video with temperature data
- High Gas detection Sensitivity Pitch 17 micrometer
- Laser Positioning
- Temperature Measurement
- Android Platform



V88-T Specifications

Camera Name	V88-T
Image Performance	
Detector Resolution	320x256
Detector Type	Cooled Hot Class II Superlattice Detector
Thermal Sensitivity (N.E.T.D)	0.010°C / 10mK @30°C
Digital Zoom	1X-8X
Responsivity	0.001 mV/s
Spatial Resolution	0.6mrad
FOV	24.5°x 20°
Frame Frequency	50Hz
Focus Mechanism	Auto/Manual
Spectral Range	3 ~4.4 µm
Start -up Time	≤5min
Image Presentation	
Digital Camera	Built-in 16-Megapixel Visible Light Camera
Output	HDMI
External Display	Built-in 5.5 inch Capacitive Display
View Finder	Built-in 0.49 inch OLED 1920x1080
Palette	11 Palettes (Normal / Gas mode (5 levels)
Temperature Measurement	
Temperature Range	-20°C ~ + 350°C
Measurement Mode	Highest Temperature/Lowest Temperature/Central Temperature
Accuracy	±1°C or ±1%
Analysis	Automatic Tracking max/ with temperature data
Emissivity Correction	Variable from 0.01 to 1.0
Data Storage	
Type	Internal 64 GB System, 128GB External TF Card
Video Storage	AV Recording of 16 bit fully radiometric IR-video to SD-card
Video Format	IRV: 16-bit full-motion infrared video stream containing all temperature data Standard video format: 16-bit full-motion infrared video stream without temperature data
Image Format	JPG format with temperature data (infrared)/ Standard JPG Format (Visible)
Power System	
Battery Type	Li-ion Battery, 8.4V, 6800mAh
Battery Life	≥4hours (Room Temperature)
Charging System	2 Bay Intelligent Charger (Optional: External Power Cable)
Physical Characteristics	
Weight (includes battery)	≤3kg
Dimensions	311mmx196mmx195mm
Environmental Specification	
Storage Temperature Range	-40°C to +70°C
Operating Temperature Range	-20°C~50°C
Humidity	10%~95%, non-condensing
Encapsulation	IP54
Shock	Shock 30G
Vibration	2.5G
Additional Features	
Optional Lens	6°, 11°, 48°
Laser Pointer	Class 2
Laser Range	10-1200 metres
GNSS	GPS/GLONASS/BeiDou
Wi-Fi	Yes
Bluetooth	Yes
4G	Yes
Audio	MIC, SPK
ATEX Certification	Yes, II 3 G EX ic IIC T4 Gc related to CE Directive(s): 2014/34/EU (Equipment for Explosive Atmospheres), Class 1 Div.2

Gas Detection Type	
Gas Detected	Detectable gas type C4 – C12, include Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Decane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Me-thane, Propane, Ethylene, Propylene, Nonane

Please be aware specifications can vary from time to time