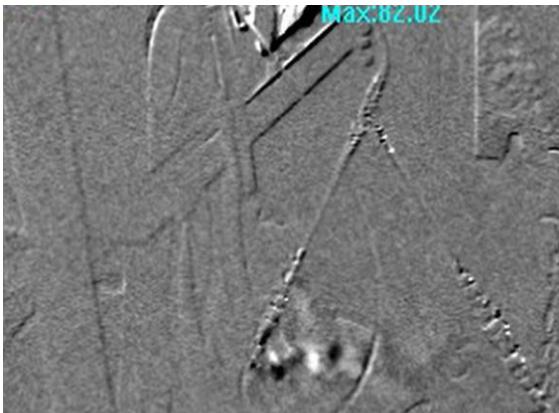# V90-S
Gas Detection

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 V90-S 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

-320x256 IR Detector

-VOCs Gas Detection

-Built-in 5MP HD Digital Camera

-10 Colour Palettes

-High Gas detection Sensitivity

-IR/Digital/Duo-vision/Duo-vision Plus/PiP

V90-S Specifications

Model	V90-S
Image Performance	
Detector Resolution	320x256
Detector Type	Cooled Quantum Well FPA
Thermal Sensitivity (N.E.T.D)	0.015°C@30°C
High Sensitivity Level	7 levels in high sensitivity rapid monitoring mode
Digital Zoom	1X-8X
Responsivity	0.001 ml/s
Spatial Resolution	0.82mrad
FOV	15°x 11.25°
Frame Frequency	50Hz
Focus Mechanism	Auto/Manual
Spectral Range	3.2 ~3.5 µm
Super Resolution	Yes
Start -up Time	≤7min
Image Presentation	
Digital Camera	5 Megapixels CMOS, with LED
Output	HDMI
Display Screen	5.8 inch Capacitive Touch Screen
Image Mode	IR/Digital/Duo-vision/Duo-vision Plus/ Picture in Picture
View Finder	HD 0.6" color OLED, with zooming function
Palette	10 colour palettes including Iron Red/Grey/Inverted Iron Red/Inverted Grey
Thermal Image Adjustment	Auto/Manual
Text Annotation	Yes
Voice Annotation	Yes
Temperature Measurement	
Temperature Range	-40°C ~ + 500°C
Accuracy	±2°C or ±2%
Analysis	10 spots, 10 area boxes, 5 lines, auto-hot/auto-cold/average, Isotherm
Emissivity Correction	Variable from 0.01 to 1.0
Optical Transmission Correction	Manual/Auto
Atmospheric Transfer Correction	Auto
Data Storage	
Type	32GB SD Card
Video Storage	H.264 video/fully radiometric IR-video to SD card
Thermal Image Format	.jpg/.png
Visual Image Format	.jpg/.png
Power System	
Battery Type	Rechargeable Li-ion Battery
Battery Life	≥2.5hours
Charging System	2 Bay Intelligent Charger
Power Supply	DC 12V 5A
Power Management	Supports Sleep Mode

V90-S Specifications

Physical Characteristics	
Weight (includes battery)	2.5kg
Dimensions	297.4x198x179.9 mm
Tripod Mounting	UNC1/4-20
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	2G
Gas Detection	
Gas Detected	Benzene, Ethanol, Ethylbenzene , Heptane, Hexane , Isoprene, Methanol, MEK, MIBK, Octane, Pentane,1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene
Additional Features	
Optional Lens	24°
Laser Pointer	Class 2
Laser Range	10-1200 meters
Laser Range Distance	40m
Wi-Fi	Yes
GPS	Yes
Bluetooth	Yes
4G	Yes
Alarm	Yes
USB	Yes