

**TECHNOLOGY
PRODUCTS**



SF6 GAS DETECTION CAMERA V80-T



TECHNOLOGY PRODUCTS

SATIR





- NETD 0.05@30Deg. C
- 5.8" Capacitive Touch Screen
- IR Resolution 640x480
- High Gas Detection Sensitivity
- 10 Colour Palettes



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 V80-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

- **640x480 IR Detector**
- **SF6 Gas Detection**
- **Built-in 5MP HD Digital Camera**
- **10 Colour Palettes**
- **High Gas detection Sensitivity**
- **IR/Digital/Duo-vision/Duo-vision Plus/PiP**



Specifications:

- **Camera Name:** V80-T
- **Image Performance:** Detector Resolution 640x480
- **Detector Type:** QWIP
- **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:** ml/s
- **Spatial Resolution:** 0.39mrad
- **FOV:** 14°x 10.5°
- **Frame Frequency:** 30Hz
- **Focus Mechanism:** Auto/Manual
- **Spectral Range:** 10.3~10.8 μm
- **Super Resolution:** Yes
- **Start-up Time:** ≤7min

Image presentation

- **Digital Camera:** 5MP Digital Camera, 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:** Built-in HD 0.6" colour OLED, 1024x768 pixels
- **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:** -20°C ~ +410°C
- **Accuracy:** $\pm 2^{\circ}\text{C}$ or $\pm 2\%$
- **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:** ≥ 2.5 hours
- **Charging System:** 2 Bay Intelligent Charger
- **Power Supply:** DC 12V 5A
- **Power Management:** Supports Sleep Mode

Physical characteristic

- **Weight (includes battery):** 2.5kg
- **Dimensions:** 297.4x198x179.9 mm
- **Tripod Mounting:** UNC1/4-20



Environment 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 25G
- **Vibration:** 2G



Gas Detection

Gas Detected: Sulphur Hexafluoride, Acetyl Chloride, Acetic Acid, Allyl Bromide, Allyl Chloride, Allyl Fluoride, Ammonia (Nh3), Bromomethane, Chloride Dioxide, Ethyl Cyanoacrylate, Ethylene, Furan, Hydrazine, Methyl silane, Methyl Ethyl Ketone, Vinyl Cyanide, Methyl, Vinyl Ketone, Propene, Tetrahydrofuran, Vinyl Ether, Trichloroethylene, Uranyl Fluoride, Vinyl Chloride, Propenal

Additional Features

- **Optional Lens:** 24°
- **Laser Pointer:** Class 2
- **Laser Range:** 10 - 1200 metres
- **Laser Range Distance:** 40m
- **Wi-Fi:** Yes
- **GPS:** Yes
- **Bluetooth:** Yes
- **4G:** Yes
- **Alarm:** Yes
- **USB:** Yes



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