ZH640 SF6/VOC

GAS INFRARED CAMERA

For SF_6 / VOCs

High Sensitivity | High Resolution | Compacted Design | Pinpointed Measurement

ZH640-SF6/VOC gas leakage infrared imager is a high-precision optical gas imaging device used to visualize sulfur hexafluoride (SF_6) , ammonia (NH_3) , ethylene (C_2H_4) , and other industrial gas leaks in various environments. It uses longwave quantum well infrared photoelectric (QWIP) detection technology, making it a breakthrough application in the field of gas leakage imaging. 640*512 pixels cooled infrared detector & Narrow-band filters are adopted to ensure high resolution and sensitivity. It can be used for detection and maintenance the gas leaks of substations without interfering with electric utility delivery or shutting down operations.

FEATURES

- Quantum Well Infrared Photoelectric detector（QWIP）
- Narrow-band: 10.3-10.6μm
- Detector Pitch: 15 μm
- Adjustable 5" color LCD
- 2.8kg & Compacted Design
- 640×512 & Thermal Sensitivity≤ 10mk
- 8M Pixels Visible light sensor
- Build-in Adjustable OLED Viewfinder
- 1-16x Continuous Digital Zoom
- Temperature Accuracy ±1°C (0°C to 100°C)

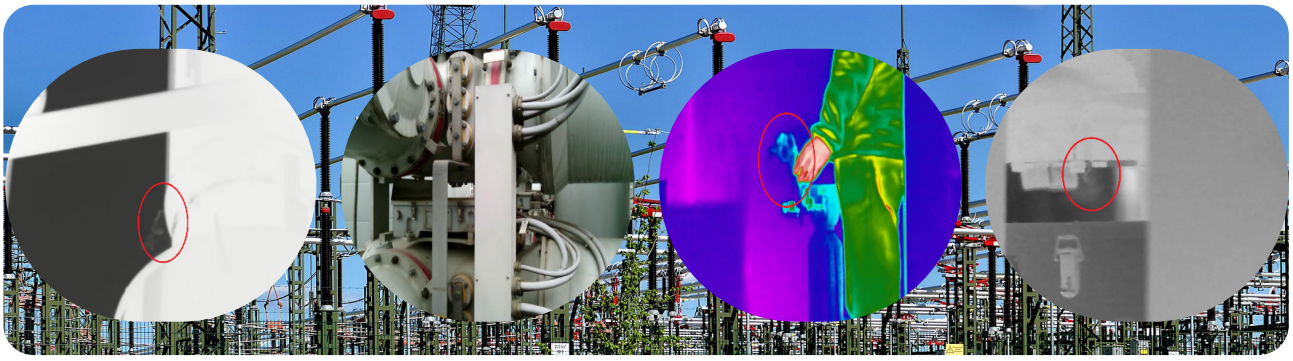
MEASURABLE GAS

Item	Gas Type	Item	Gas Type
1	Sulfur hexafluoride (SF6)	10	Methyl vinyl ketone（C4H6O）
2	Dimethyl sulfide(NH3)	11	Oxole（C4H4O）
3	Ethylene (C2H4)	12	Vinyl ether (C4H6O)
4	Acetyl chloride (C2H3ClO)	13	3-bromopropene（C3H5Br）
5	2-Propenenitrile（C3H3N）	14	Propylene（C3H6）
6	Methylsilane in cylinder（CH6Si）	15	Vinyl chloride（C2H3Cl）
7	Trichloroethylene（C2HCl3）	16	AceticAcid (C2H4O2)
8	Allyl chloride（C3H5Cl）	17	Benzene, pentafluoro-2-propenyl- (C9H5F5)
9	2-Propenal (C3H4O)	18	50+ types of VOC gases can be detected.*

*Note: Different sub models can detect different gases. For more details, please consult the supplier.

ZH640 SF6/VOC SPECIFICATIONS

Category	Parameter	Category	Parameter
Detector Type	Focal plane array cooled QWIP	**Focus Distance /Minimum Distance**	35mm/0.5m; Options:39mm/23mm
Spectral Range	3.1~3.5μm / 10.3-10.7 μm	**Field of View**	15.7° × 12.6°
IR Resolution	640×512 / 320x256 pixels	**IR Focus**	Automatic/ Manual /AMT
Detector Pitch	15 μm / 30 μm	**IR Lens Replacement**	Allow on-site lens Replacement
Thermal Sensitivity	10 mK @ 25°C	**Sensor Cooling**	Stirling Micro cooler
Frame Rate	50/60fps	**Visual Image**	8 MP, CMOS
Temperature Range	-40°C to 500°C	**Visual Image Focus**	Automatic
Accuracy	±1°C (0°C to 100°C), ±2°C or ±2% of reading (>100°C)	**Image Mode**	IR image, Visual image, Picture-in-Picture, Gas Mode
Thermal Analysis	Points, Lines, Boxes	**LCD**	5", 1920 ×1080, Touchscreen
Measurement	Max/Min T, Avg T, Isotherm, Delta T, Alarm	**Adjustable Viewfinder**	Automatic/ Manual
Measurement Corrections	Emissivity, Reflected Temperature, Transmission	**Record and Replay**	Recording and Playback of audio, video, and images
Battery Type	Rechargeable Li battery,9.6Ah	**Color Palettes**	16 kinds of Color Selectable
Battery Operating	⩾4h	**Flash**	Yes
Charging Mode	Charger & Charged in Camera	**High Sensitivity Mode**	Yes, 1-6 Level
Battery status	Battery Remaining/Alarm	**Video Codecs**	H.265/H.264/MJPEG
Interfaces	USB3.0 TYPE-C	**Voice Codecs**	G.711/G.726
Video Out	Micro-HDMI	**Zoom**	1-16x continuous, digital zoom
Communication	Wi-Fi, Bluetooth, 4G(Options)	**Annotations**	Voice and Text
Laser Meter	Yes	**Distance Info**	Shown on the screen
Laser Pointer	Yes	**Geographical Info**	Shown on the screen
Geographical coordinates	GPS and Beidou, Dual positioning mode	**Remote Control**	Support remote control and real-time data transfer
Operating Temperature	–20°C to 50°C	**Intelligently Interworking**	FID/PID gas concentration data can be shown on video screens
Operating Humidity	95% RH (Non-condensing)	**Size**	278 × 181.5 × 177.5mm
Protection Grade	IP54/ Ex ic nC op is II C T6 Gc	**Weight**	2.8 kg



UVIRSYS
MAKE INVISIBILITY VISIBLE
SHANGHAI UVIR TECHNOLOGY CO.,LTD.
Web:www.uvirsys.com Email:info@uvirsys.com Tel:+86-21-5183 0882
Address: Floor 5, Building 11, No.199, Guangfulin East Road, Songjiang, Shanghai, China