

Explosion-proof Dual-spectrum Camera RIRS-SFB465-T Series



- 1.Double explosion-proof certifications, explosion-proof standard: Ex d $\rm\,II\,C$ T6 Gb/Ex tD A21 IP68 T80 $\rm^\circ C$
- 2.With the latest 12µm thermal imaging detector and advanced thermal image algorithm, it can make farther and clearer images.
- 3. Visible imaging and thermal imaging can meet the requirement for 24/7 security monitoring.
- 4.Smart analysis for actions such as tripwire intrusion and area intrusion are available.
- 5. Support professional temperature measurement analysis tools and smart fire detecting algorithm.
- 6. 304/316L stainless steel body design with encapsulation rating IP68.
- 7.ONVIF&GB28181 standard interface protocol, SDK, matched NVR and VMS client software is available.

Camera Specifications

| Technical Specifications | | RSFB465-T | | | | | |
|--------------------------|--|---|-------------|-------------|-------------|--|--|
| | Detector Type | VOx, uncooled FPA detectors | | | | | |
| Thermal Parameters | Spectral Range | 8 ~ 14µm | | | | | |
| | NETD | ≤40mK@25℃,F#1.0 | | | | | |
| | Max. Resolution | 640×512 | | | | | |
| | Pixel Pitch | 12µm | | | | | |
| | Focal Length | 9.1mm | 13mm | 19mm | 25mm | | |
| | Focus Mode | Athermal fixed focus | | | | | |
| | FOV | 48°×38° | 32.9°×26.6° | 22.9°×18.4° | 17.5°×14.0° | | |
| | F# | 1.0 | 1.0 | 1.0 | 1.0 | | |
| | IFOV | 1.32mrad | 0.92mrad | 0.63mrad | 0.48mrad | | |
| | Palette | 20 palettes available such as Whitehot/Blackhot/Iron/Rainbow. | | | | | |
| | Sensor | 5MP 1/2.8" Progressive Scan CMOS | | | | | |
| | Max. Resolution | 2560×1920 | | | | | |
| | Focal Length | 4mm | 6mm | 6mm | 12mm | | |
| Visible | FOV | 65°×50° | 46°×35° | 46°×35° | 24°×18° | | |
| Parameters | Day/Night Conversion | ICR auto conversion/ Electronic color to B/W | | | | | |
| | Supplement Light | Infrared supplement light, maximum supplement distance 50m | | | | | |
| Dual- | Dual-Spectrum Fusion | Support the thermal image to fuse visible image to improve thermal image details | | | | | |
| spectrum Parameters | PIP | Support thermal image overlaid on visual image in PIP mode | | | | | |
| | Network Protocol | IPv4,HTTP,HTTPS,QoS,FTP,SMTP,UPnP,SNMP,DNS,DNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP | | | | | |
| | Interoperability | ONVIF, GB28181, SDK | | | | | |
| Network Functions | Number of Videos Previewed Simultaneously | Support up to 20 channels | | | | | |
| | User Management | Support multi-user, three levels: administrator, operator and user | | | | | |
| | Browser | Support IE browser, Chinese and English are available. | | | | | |
| | Max. Resolution | 2560×1920 (visible), 1280×1024 (thermal) | | | | | |
| | Image Format | JPEG | | | | | |
| Video Parameters | Audio Compression Standard | G.711a/G.711u/AAC/PCM | | | | | |
| | Video Compression Standard | H.264/H.265 | | | | | |

| Main Stream | Visible: 50Hz:25fps(2560×1920,2560×1440,1920×1080,1280×7 20) 60Hz:30fps(2560×1920, 2560×1440, 1920×1080, 1280×720) |
|-------------|--|
|-------------|--|

| | | Thermal: | | |
|----------------------------|---------------------------------|---|--|--|
| | | 50Hz:25fps(1280×1024, 1024×768) | | |
| | | 60HZ:30fps(1280×1024, 1024×768) | | |
| | Sub Stream | Visible: | | |
| | | 50Hz:25fps(704×576, 352×288) | | |
| | | 60Hz:30fps(704×480, 352×240) | | |
| | | Thermal: | | |
| | | 50Hz:25fps(640×512) | | |
| | | 60Hz:30fps(640×512) | | |
| | Measuring Range | -20℃~550℃ | | |
| Temperature Measurement | Measuring Accuracy | ±2℃ or ±2% (The larger value shall prevail) | | |
| | Temperature Analysis | Support full frame, spot, line, region temperature measurement rules and linkage alarms | | |
| Smart Functions | Fire Warning | Support fire detection | | |
| | Smart Video | Alarm trigger recording, disconnection trigger recording | | |
| | Smart Alarming | Support triggering alarm and linkage alarm of network disconnection, IP address conflict, memory error, illegal access and burn alarm | | |
| | Smart Detecting | Support event analysis functions such as area intrusion tripwire intrusion, etc. | | |
| | Linkage Alarm | Video/image/mail/ alarm output / sound and light alarm | | |
| | Power Interface | AC 100~260V, DC 12V (optional) | | |
| | Communication Interface | 1 RJ45 10M/100M adaptive Ethernet port | | |
| System | Audio Interface | 1-ch input, 1-ch output | | |
| Interface | Alarm Interface | 2-ch input, 2-ch output | | |
| | Storage Interface | Micro SD memory (maximum 256G) | | |
| | R485 Interface | 1-ch RS485, support extended Pelco | | |
| | Fiber Interface | Support fiber access | | |
| General Specification | Operating Temperature& Humidity | -40°C ~+60°C; <95%RH | | |
| | Ex Rating | Ex d II C T6 Gb/Ex tD A21 IP68 T80°C | | |
| | Encapsulation Rating | IP68 | | |
| | Housing Material | 304/316L stainless steel (used in corrosive environment) | | |
| | | | | |

| Power Consumption | ≤8W |
|-------------------|--|
| Dimensions(mm) | 275.5×186×203 |
| Weight | 13kg |
| Mounting | Multiple optional mounting types for different application environment |

Operating Distance

The recommended distance of detecting, recognizing and identifying for human (1.8×0.5m) and vehicles (1.4×4.0m) are as follows:

DD stands for Detecting Distance;

RD stands for Recognizing Distance;

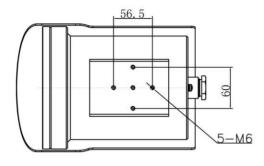
ID stands for Identifying Distance;

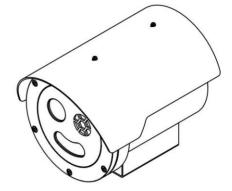
| Equipped | DD | DD | RD | RD | ID (vehicle) | ID (human) |
|----------|-----------|---------|-----------|---------|-----------------|---------------|
| Lens | (vehicle) | (human) | (vehicle) | (human) | | |
| 9.1mm | 1163m | 379m | 291m | 95m | 145m | 47m |
| 13mm | 1661m | 542m | 415m | 135m | 208m | 68m |
| 19mm | 2428m | 792m | 607m | 198m | 303m | 99m |
| 25mm | 3194m | 1042m | 799m | 260m | 399m | 130m |

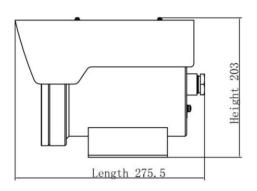
Operating Distance of Smart Analysis

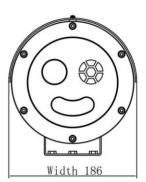
| Equipped Lens | RD (human) | RD (vehicle) | Temperature Measurement (2m×2m) | Temperature Measurement (1m×1m) | Fire Detection (2m×2m) | Fire Detection (1m×1m) |
|------------------|---------------|-----------------|---------------------------------------|---------------------------------|------------------------------|------------------------------|
| 9.1mm | 71m | 218m | 253m | 126m | 1011m | 506m |
| 13mm | 102m | 311m | 361m | 181m | 1444m | 722m |
| 19mm | 148m | 455m | 528m | 264m | 2111m | 1056m |
| 25mm | 195m | 599m | 694m | 347m | 2778m | 1389m |

Drawings









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