SWIR SYSTEMS Component Product Series \$1128

Near-Infrared Broadband Camera

S1128 is a near-infrared wide spectrum camera. Using advanced extremely low-illuminance detection technology, it can use atmospheric glow imaging under extremely weak light environment, and has extremely high sensitivity in the near infrared band ($QE \ge 50\%$ at 700~1000nm).

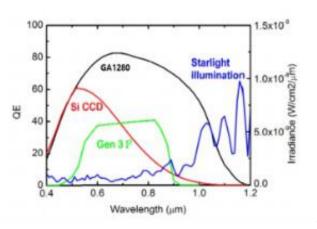
Compared with visible light, low-light level and thermal imaging cameras, it has the following advantages: it can quickly detect and identify targets, can penetrate smoke, haze, and sand, and can image day and night; it can penetrate colored glass, car windows, sunglasses, and some high Molecular plastics for observation; it can be concealed for reconnaissance, the illumination beam will not be detected by human eyes and traditional equipment such as visible light cameras, low-light night vision cameras and thermal imaging cameras; it can easily and quickly detect laser targets, and is widely used in night covert reconnaissance and evidence collection. Day and night surveillance, target recognition in harsh environments, fog-through imaging, camouflage recognition, low light environment imaging, day and night imaging, search and rescue, etc.



Product Features

- Low-light imaging technology;
- Resolution:1280x1024;
- Lowest illumination: 3x10-4Lux;
- 2D and 3D noise reduction;
- Auto white balance / Auto exposure;
- Uncompressed raw data output;
- Communication control, control RS422
- Provide multiple digital interfaces of USB/ CameraLink/HD-SDI。

Spectral Effec



Product Application

- Night vision
- Persistent surveillance around the clock
- Weapon targeting system
- Airborne ISR (intelligence, surveillance, reconnaissance);
- Laser spot detection;
- Iris recognition
- Fluorescence imaging
- Silicon ingot inspection

Performance Index

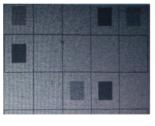
| Spectral response | 400nm ~1200nm | Detector Interface | |
|---------------------------|-------------------------------------|----------------------------|-----------------------|
| pixel | 1280×1024 | Digital output | USB/CameraLink/HD-SDI |
| Image spacing | 10µm | Camera control | RS422 |
| Min. sensitivity @F12 | 3x10 ⁻⁴ Lux | Lens mount | С |
| Image | | Power Supply | |
| Frame rate | 25Hz/@SXGA, 60Hz/@720p | Power input | DC 12V |
| Exposure | 20us~25ms | Power dissipation | ≤3.8W |
| Dynamic Range | ≥80dB | Environmental Adaptability | |
| On-board image processing | Blind element replacement Auto | Operating temperature | -20°C~+60°C |
| | exposure, Auto gain control, Auto | Storage temperature | -40°C~+70°C |
| | contrast enhancement (adjustable) 、 | Physical Properties | |
| | Image noise reduction image | Weight | 170g |
| | enhancement | Size | 47mm×47mm×63mm |

Dimensions



Window night vision





0.001Lux Low-light imaging@60Hz



Remote penetrate fog (2km)

Dimensions

