



SF399
Outdoor Day/Night IR Camera

- True "DAY/NIGHT" Integrated Camera
- Built-in Aspherical Varifocal IR lens
- No focus shift at night
- Auto-switching IR-cut Filter
- No colour distortion in daytime
- IR LEDs effective range
- SF399: ~20m
- SF489: 40-50m



SF489
Outdoor Long Range IR Camera



Conventional IR camera without IR-cut filter distorts the image color



TeleEye SF399 / SF489 with IR-cut filter produces accurate image color

Auto-switching IR-cut filter

TeleEye SF399 / SF489 is equipped with an automatic switching IR-cut filter, which produces accurate color image under natural light and provides high quality monochrome images in low light or no light conditions. During the daytime, the IR-cut filter inside the TeleEye SF399 / SF489 removes IR component in the natural environment showing clear color definition. Under no light condition, the SF399 / SF489 would remove its IR-cut filter and turn on its IR LEDs to deliver black and white image under IR illumination.



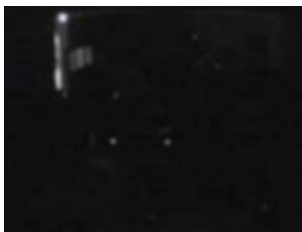
Conventional IR camera with ordinary lens shifts the image focus under IR illumination



TeleEye SF399 / SF489 with IR lens keeps the image focus under both visual and IR illumination

Varifocal IR Lens and High Resolution CCD

TeleEye SF399 is equipped with $f=2.9-10\text{mm}$ auto-iris IR lens and TeleEye SF489 is equipped with $f=9-22\text{mm}$ auto-iris IR lens. Since the wavelength of IR light is significantly longer than that of visible light, the focus of ordinary lens will be shifted when switching from visible to IR illumination or vice versa, making the image blur at night time. The IR lens equipped in the TeleEye SF399 / SF489 can compensate the focusing problem to produce sharp images under both visible and IR illuminations environment. With their built-in varifocal IR lens, these unique cameras provide viewing angles ranging from $28^{\circ}-88^{\circ}$ (SF399) and $16.2^{\circ}-40.6^{\circ}$ (SF489) while displaying images without distortion.



Conventional low light camera without IR illumination





TeleEye SF399 with IR illumination and viewing range of 20 meters

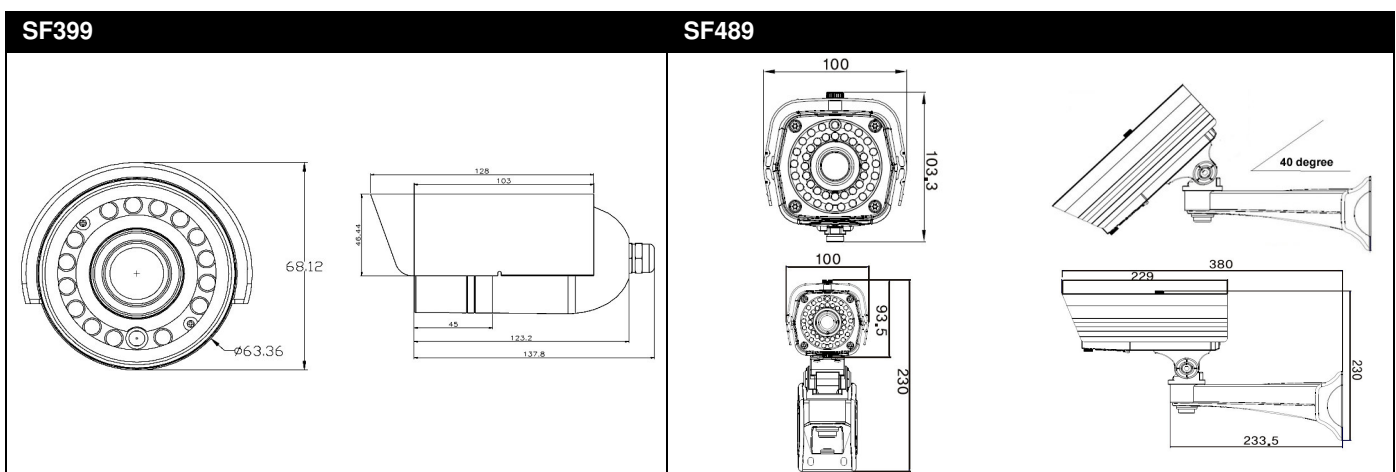
IR Illumination

Embedded with IR LEDs, TeleEye SF399 / SF489 does not rely on any external light source even in complete darkness. The IR LEDs will turn on automatically under low illumination circumstances and the effective viewing range of SF399 is up to a distance of 20 meters and SF489 is up to 50 meters.

Applications

- Round the clock video surveillance & recording
- Public utilities surveillance
- Unmanned site surveillance
- Factory/Retail shop monitoring

MODEL	SF399 Outdoor Day / Night IR Camera	SF489 Outdoor Long Range IR Camera
		
Pick Up Device	1/3" interline transfer CCD	1/3" interline transfer CCD
Horizontal Resolution	540 TVL	480 TVL
Auto Iris Lens	DC	DC
Lens	Aspherical IR lens: 2.9mm ~ 10mm	Aspherical IR lens: 9mm ~ 22mm
View Angle (Horizontal)	28° ~ 88°	16.2° ~ 40.6°
IR LED / Effective Range	15 infrared LEDs / ~20m (Auto-switching IR filter)	40 infrared LEDs / 40-50m (Auto-switching IR filter)
Min. Illumination	0.13 Lux / F1.3 (IR OFF) 0.0 Lux (IR ON & IR filter removed)	0.01 Lux / F1.2 (IR OFF) 0.0 Lux (IR ON & IR filter removed)
Weather Proof Standard	IP67	IP66
Electronic Shutter	1/50 (1/60) sec	1/50 (1/60) sec
Electronic Shutter Control	On / Off switchable	On / Off switchable
Back Light Compensation	On / Off switchable	On / Off switchable
S/N Ratio	More than 48dB (AGC off)	More than 45dB (AGC off)
White Balance	Auto / Push selectable	Auto / Push selectable
Video Output	1.0 Vp-p, 75Ω	1.0 Vp-p, 75Ω
Auto Gain Control	On / Off switchable	Yes
Power Source	DC12V / 200mA (IR OFF) 500mA (IR ON)	DC 12V / AC 24V
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C
Net Weight (g)	500	2000



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