

ViSWIR

REFLEX ZOOM LENS E3Z5247P-MPSW

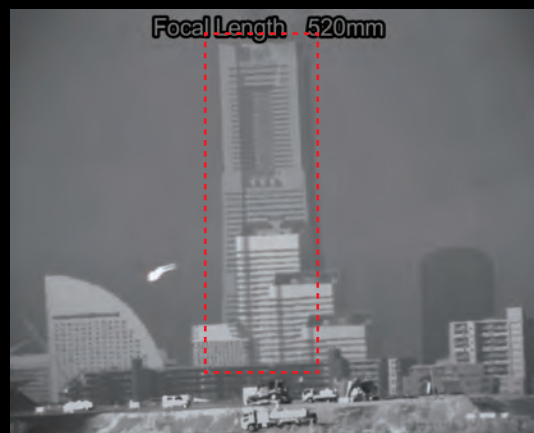
FOR IMX990/991
520-1300mm



VISIBLE STANDARD LENS + CMOS



SWIR E3Z5247P-MPSW + IMX990



The longer the wavelength, the lower the scattering coefficient, which means that objects can be seen further away.

Rayleigh scattering coefficient:

$$K_s = \frac{2\pi^5}{3} n \left(\frac{m^2 - 1}{m^2 + 1} \right) \frac{d^6}{\lambda^4}$$

λ : Wavelength
 m : Refractive index
 n : Number of scattering particles
 d : Diameter of scattering particles

* $\frac{(SWIR)1300nm^4}{(Visible)550nm^4} \approx 30 \text{ times}$, SWIR enables visibility up to 30 times further than visible light.

ViSWIR Reflex Zoom Lens

- Dedicated design for Visible+SWIR image sensor (IMX990/IMX991)
- Special optical design for 400-1700nm
- Reflex zoom for super-telephoto spec
- Adjustable back-focus mechanism
- Compact & Light weight design (W130 x H133.5 x D275.5mm, 2500g)

Overviews

SENSOR SIZE	FOCAL LENGTH	WAVE LENGTH	MOUNT	F-NUMBER	WORKING DISTANCE
1/1.8"	520 - 1300mm	400 - 1700nm	C	4.7	25m - INF.



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