

# 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:

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

$\lambda$  : 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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