

FOV comparison with different lenses

Shooting scene

We attached lenses with various focal lengths to BothView and photographed the same scenery to compare the FOV (field of view) and the AFOV (angular field of view).

【Shooting scene】



BothView (T90:R10)

- Event sensor IMX636
6.22 x 3.5mm (D7.14mm) 1/2.5"
1280 x 720px (pixel size 4.86um)
- Frame sensor IMX392
6.68 x 4.2mm (D7.9mm) 1/2.3"
1936 x 1216px (pixel size 3.45um)

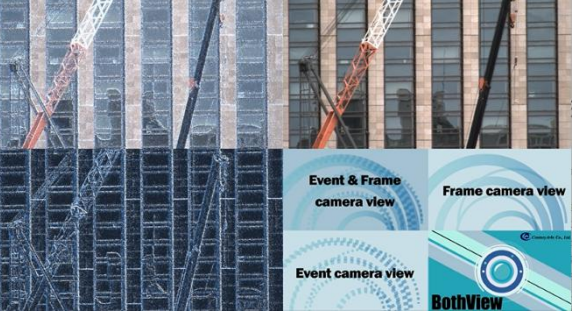
Sample lenses

- | | |
|----------------------------|-----------|
| 1. TAMRON M118FM06 | f = 6mm |
| 2. TAMRON M118FM08 | f = 8mm |
| 3. VS TECHNOLOGY VS-1218VM | f = 12mm |
| 4. computer M2514-MP2 | f = 25mm |
| 5. VS TECHNOLOGY VS-5026VM | f = 50mm |
| 6. VS TECHNOLOGY SV-7525H | f = 75mm |
| 7. VS TECHNOLOGY SV-10028H | f = 100mm |

Rev. 1.0



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f=6mm	 AFOV(H): 54.8°	f=50mm	 AFOV(H): 7.1°
f=8mm	 AFOV(H): 42.5°	f=75mm	 AFOV(H): 4.7°
f=12mm	 AFOV(H): 29.1°	f=100mm	 AFOV(H): 3.6°
f=25mm	 AFOV(H): 14.2°	BothView adjusts images to fit the smaller event sensor, so the above AFOV is calculated based on the event sensor (IMX636). 	

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