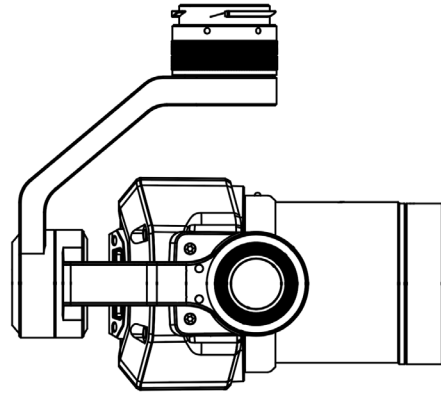
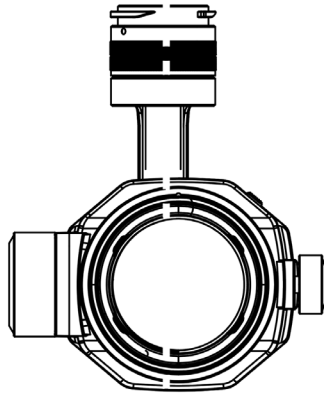


# ZENMUSE X7 SENSOR



## SUPER 35MM SENSOR

Sensor Size (Photos)	23.5x15.7mm
Sensor Size (Max Video Recording Area)	23.5x12.5mm
Effective Pixels	24 MP
Electronic Shutter Speed	1/8000 - 8s
Mechanical Shutter Speed	1/1000 - 8s (not 16mm)
ISO Range (Photos)	100 - 25600
ISO Range (Videos)	100 - 1600 (EI Mode on) 100 - 6400 (EI mode off)
Exposure Compensation	± 3.0 (3 stops of light)

## ASPHERICAL LENSES

Focal Length	16mm	24mm	35mm	50mm
35mm Photos	24mm	36mm	53mm	75mm
Aperture Range	F2.8 - F16	F2.8 - F16	F2.8 - F16	F2.8 - F16
FOV (3:2)	72.6x52.3°	52.2x36.2°	37.1x25.3°	26.5x17.9°
FOV (17:9)	72.6x42.7°	52.2x29.2°	37.1x20.3°	26.5x14.3°
	51.4x28.8°	35.6x19.4°	24.8x13.4°	17.5x9.4°
FOV (16:9)	70.2x43.3°	50.2x29.6°	35.6x20.6°	25.4x14.5°
	48.8x28.8°	33.6x19.4°	23.4x13.4°	16.5x9.4°
FOV (2.44:1)	72.6x33.4°	52.2x22.6°	37.1x15.6°	26.5x11.0°
Close Focus	1' 4"	2' 2"	2' 10"	3' 1"
Int. Filtration	ND 4	none	none	none
Ext. Filtration	46mm ND 1.2, ND 2.1, UV/IR Cut, UV MC Opt Flat			



## VIDEO SPECIFICATIONS

FPS	Aspect Ratio	Format	Resolution	Max Bitrate	Effective Sensor Size
23.976	17:9	Cinema DNG	6016x3200	4.44 Gb/s	23.5x12.5mm
		ProRes 422 HQ	4096x2160	1.99 Gb/s	
		ProRes 422 HQ	4096x2160	970.6 Mb/s	
24	16:9	Cinema DNG	5760x3240	4.29 Gb/s	23.5x12.7mm
		ProRes 422 HQ	3840x2160	1.89 Gb/s	
		ProRes 4444 XQ	3840x2160	906.9 Mb/s	
29.97	16:9	ProRes 4444 XQ	3840x2160	2.08 Gb/s	23.5x12.7mm
		ProRes 422 HQ	5280x2160	1.27 Gb/s	
		ProRes 422 HQ	5280x2160	1.27 Gb/s	
30	2.44:1	ProRes 422 HQ	5280x2160	1.27 Gb/s	23.5x9.6mm
		Cinema DNG	3944x2088	3.66 Gb/s	
		ProRes 422 HQ	3944x2088	512.9 Mb/s	
47.95	17:9	ProRes 4444 XQ	2048x1080	1.15 Gb/s	15.4x8.2mm
		Cinema DNG	3712x2088	3.86 Gb/s	
		ProRes 422 HQ	2704x1520	847.2 Mb/s	
59.94	16:9	ProRes 422 HQ	1920x1080	448.7 Mb/s	14.5x8.2mm
		ProRes 4444 XQ	1920x1080	1.02 Gb/s	
		ProRes 4444 XQ	1920x1080	1.02 Gb/s	
23.976	17:9	H.264	4096x2160	/	23.5x12.5mm
		H.265	4096x2160	102.2 Mb/s	
		H.264	3840x2160	/	
24	16:9	H.264	2720x1530	/	22.5x12.7mm
		H.264	1920x1080	/	
		H.265	3840x2160	97.4 Mb/s	
29.97	16:9	H.265	2720x1530	/	22.5x12.7mm
		H.265	1920x1080	/	
		H.265	1920x1080	/	
30	2.44:1	H.264	3840x1572	100.6 Mb/s	23.5x9.6mm
		H.265	3840x1572	98.3 Mb/s	
		H.265	3840x1572	98.3 Mb/s	
47.95	17:9	H.264	4096x2160	100.8 Mb/s	15.4x8.2mm
		H.264	3840x2160	100.6 Mb/s	
		H.264	2720x1530	100.6 Mb/s	
59.94	16:9	H.264	1920x1080	80.4 Mb/s	14.5x8.2mm
		H.264	1920x1080	80.4 Mb/s	
		H.265	2720x1530	77.5 Mb/s	
		H.265	1920x1080	65.1 Mb/s	

## RECORD TIMES

License Key	Video Format	Resolution	Bit	Frame Rate/fps	Recording Duration*
CinemaDNG License Key	CinemaDNG	5280x2970	12	23.976/24/25/29.97	8Min @29.97fps
		4096x2160	10	50/59.94	9Min @59.94fps
		4096x2160	12	23.976/24/25/29.97	15Min @29.97fps
		4096x2160	12	47.952	10Min @47.952fps
		3840x2160	10	50/59.94	9Min @59.94fps
		3840x2160	12	23.976/24/25/29.97	16Min @29.97fps
		3840x2160	12	47.952	10Min @47.952fps
Apple ProRes License Key	Apple ProRes 422HQ	3840x2160	/	23.976/24/25/29.97	36Min @29.97fps
		5280x2160	/	23.976/24/25/29.97	26Min @29.97fps
	Apple ProRes 4444XQ (no alpha)	3840x2160	/	23.976/24/25/29.97	16Min @29.97fps

\* Calculated by average bitrate, actual recording duration may vary