

4K / HD Integrated Camera Specification Comparison

As of April, 2018

	4K Integrated Camera		HD Integrated Camera			Full-HD Outdoor Integrated Camera		
Appearance								
Model No.	AW-UE70W/K, AW-UN70W/K		AW-HE130W/K, AW-HN130W/K		AW-HE40SW/SK/HW/HK, AW-HN40HW/HK		AW-HR140	
General								
Lens / Pan Tilt System			Lens / Pan Tilt System					
Control			Serial / IP / IR			Serial / IP		
Power Requirements			DC 12 V (AC Adaptor supplied), DC42 V to 57 V (PoE+ power supply)			DC 12 V to 21.8 V, DC42 V to 57 V (PoE++ power supply)*8		
Power Consumption	1.3 A (AC adaptor supplied) 0.5 A (PoE+ power supply)		1.8 A (AC adaptor supplied) 0.6 A (PoE+ power supply)		1.2 A (AC adaptor supplied) 0.4 A (PoE+ power supply)		5.5 A (12 V power supply) 2.1 A (PoE++ power supply)*8	
Weight	Approx. 1.5 kg (3.30 lb)		Approx. 3.1 kg (6.83 lb) [Including mount bracket]		Approx. 1.5 kg (3.30 lb)		Approx. 9.0 kg (19.8 lb)	
Dimension (W x H x D)*1	160 mm x 186 mm x 179 mm (6-5/16 inches x 7-3/64 inches)		180 mm x 228 mm x 234 mm (7-3/32 inches x 9 inches x 9-3/16 inches)		160 mm x 186 mm x 166 mm (6-5/16 inches x 7-41/128 inches x 6-17/32 inches)		258 mm x 357 mm x 397 mm (10-5/32 inches x 14-1/16 inches x 15-5/8 inches) (including protrusions and cable cover)	
Camera								
Image Sensors	1/2.3-type MOS		1/2.86 type Full-HD 3MOS		1/2.3 type MOS		1/2.86 type Full-HD 3MOS	
Lens	Optical 20x zoom, Digital zoom 12x*4, i.Zoom 30x (22x when in 4K mode) F1.8 to F3.6 (f=4.08 mm (5/32 inches) to 81.6 mm (3-7/32 inches); 35 mm (1-3/8 inches) equivalent: 29.5 mm (1-5/32 inches) to 612.0 mm (24-3/32 inches)		Optical 20x zoom, Digital zoom 10x*4, F1.6 to F3.4 (f=4.5 mm to 90 mm; 35 mm equivalent: 32.13 mm to 642.5 mm)		Optical 30x zoom, Digital zoom 16x*4, i.Zoom 40x, F1.6 to F4.7 (f=4.3 mm (1/164 inches) to 129 mm (5-5/64 inches); 35 mm (1-3/8 inches) equivalent: 31.6 mm (1-31/128 inches) to 962.0 mm (37-7/8 inches)		Optical 22x Zoom, Digital zoom 16x*4, i.Zoom 30x F1.6 to F4.3 [f=4.3 mm (1/164 inches) to 94.6 mm(3-23/32 inches); 35 mm (1-3/8 inches) equivalent: 31.6 mm (1-31/128 inches) to 705.0 mm (27-49/64 inches)]	Optical 20x zoom, Digital zoom 10x*4, F1.6 to F3.4 (f=4.5 mm to 90 mm; 35 mm equivalent: 32.13 mm to 642.5 mm)
Digital Extender Zoom	1.4x, 2.0x, 4.0x, 6.0x, 8.0x,				1.4x			
Field of View	Horizontal	65.1° (wide) to 3.2° (tele)*2	60.2° (wide) to 3.3° (tele)		61.6° (wide) to 2.1° (tele)*3		60.2° (wide) to 3.3° (tele)	
	Vertical	39.5° (wide) to 1.8° (tele)*2	36.2° (wide) to 1.9° (tele)		37.0° (wide) to 1.1° (tele)*3		36.2° (wide) to 1.9° (tele)	
	Diagonal	72.4° (wide) to 3.7° (tele)*2	67.4° (wide) to 3.8° (tele)		68.7° (wide) to 2.4° (tele)*3		67.4° (wide) to 3.8° (tele)	
Focus					Auto/Manual			
Focus Distance	Entire zoom range: 1500 mm Wide end: 100 mm		Entire zoom range: 800 mm Wide end: 400 mm		Entire zoom range: 1200 mm Wide end: 100 mm		Entire zoom range: 800 mm Wide end: 400 mm	
Horizontal Resolution	4K: 1300 TV lines Typ (Center area) HD: 1000 TV lines Typ (Center area)				1000 TV lines(Center area)			
Minimum Illumination	59.94 Hz: 0.7 lx (50 IRE, F1.8, 48 dB, 1/60 without accumulation) 0.35 lx (50 IRE, F1.8, 48 dB, 1/30 with accumulation[Frame Mix 6 dB]) 50 Hz: 0.7 lx (50 IRE, F1.8, 48 dB, 1/50 without accumulation)0.35 lx (50 IRE, F1.8, 48 dB, 1/25 with accumulation[Frame Mix 6 dB])		2 lx (50 IRE, F1.6, 36 dB)		59.94 Hz: 0.7 lx (50 IRE, F1.6, 48 dB, 1/60 without accumulation), 0.35 lx (50 IRE, F1.6, 48 dB, 1/30 with accumulation [Frame Mix 6 dB]) 50 Hz: 0.7 lx (50 IRE, F1.6, 48 dB, 1/50 without accumulation), 0.35 lx (50 IRE, F1.6, 48 dB, 1/25 with accumulation [Frame Mix 6 dB])		2 lx (50 IRE, F1.6, 36 dB, no frame accumulation)	
Gain	Auto, 0 dB to 48 dB (3 dB step)		Auto, 0 dB to 36 dB		Auto, 0 dB to 48 dB (3 dB step)		Auto, 0 dB to 42 dB (1 dB Step), 37 dB to 42 dB (Super Gain Mode)	
S/N	54 dB (standard)		60 dB (standard)		54 dB (standard)		60 dB	
Frame mix	Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB		0 dB to 24 dB		Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB		0 dB to 24 dB	
ND Filter	Auto*, Through, 1/4, 1/16, 1/64		Through, 1/8, 1/64		-		Through, 1/8, 1/64	
P/T Mechanism								
Preset					Up to 100			
Pan/Tilt Operation Speed	Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s		0.08°/s to 60°/s		Maximum speed during preset: 300°/s Maximum speed during manual: 90°/s		Maximum speed: 60°/s or more	
Panning Range					±175°			
Tilting Range	-30° to 90°*5		-30° to 210°*5		-30° to 90°*5		-30° to 120°*5	
Quietness	During preset: NC40 or less During manual: NC35 or less		NC35 or less		During preset: NC40 or less During manual: NC35 or less		60°/s: NC45 or less	
System								
LAN with built-in NDI HX*6	AW-UN70W/K only		AW-HN130W/K only		AW-HN40HW/HK only		AW-HN38HW/HK only	
Video Output	3G-SDI							
	HD-SDI			(SW/SK model)				
	SD-SDI							
	HDMI					(HW/HK model)		
	Composite							
USB								
Video Output Connector	BNC (3G/HD SDI) x 1 HDMI x 1 USB Mini-B port		BNC (HD/SD-SDI) x 1 BNC (VIDEO OUT) x 1 HDMI x 1		BNC (HD-SDI) x 1 (SW/SK model) HDMI x 1 (HW/HK model) USB Mini-B port		HDMI x 1 USB Mini-B port	
Remote Input/Output Connector	LAN	10BASE-T/100BASE-TX, RJ-45 Equipped with straight/crossover cable auto detection function		10BASE-T/100BASE-TX, RJ-45		10BASE-T/100BASE-TX, RJ-45 Equipped with straight/crossover cable auto detection function		10BASE-T/100BASE-TX, RJ-45
	RS-422					CONTROL IN RS422A (RJ-45)		
	RS-232C					Mini DIN 8-pin (IN), Mini DIN 8-pin (OUT)		
Audio Input/Output					Internal		MiniXLR (Line Input)	
Synchronization System			Internal/External synchronization (BBS/Tri-level sync)		Internal		Internal/External synchronization (BBS/Tri-level sync)	

*1: Excluding protrusions, cable cover, mount bracket *2: When OIS is OFF/Mode1. *3: Image Stabilizer OFF *4: "Auto" is available when "Scene" setting is "Full Auto". *5: Depending on the pan or tilt position, the camera may be reflected in the image. *6: This product is compatible with NDI|HX technology of NewTek, Inc. *7: Picture quality is lower with the digital zoom. *8: Conforms to IEEE802.3bt (Draft ver. 2.0).