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## IP Camera Comparison (Part 1)

Model		UA-R500F2	UA-R560F2	UA-R580F2
				
<b>Camera</b>				
<b>Image Sensor</b>		1/2.7"	1/2.7"	1/2.7"
<b>Picture Elements</b>		2592 (H) x 1944 (V)	2880 (H) x 1620 (V)	2880 (H) x 1620 (V)
<b>Minimum Illumination</b>	<b>Color</b>	0.002 lux	0.002 lux	0.005 lux
	<b>B/W</b>	0 lux	0 lux	0 lux
	<b>IR ON</b>	0 lux	0 lux	0 lux
<b>Shutter Speed</b>		1/5 ~ 1/20000 s	1/5 ~ 1/20000 s	1/5 ~ 1/20000 s
<b>White Balance</b>		Auto / Manual	Auto / Manual	Auto / Manual
<b>Gain Control</b>		Auto	Auto	Auto
<b>S/N Ratio</b>		39 dB	39 dB	39 dB
<b>WDR</b>		WDR	WDR Pro	WDR Pro
<b>Dynamic Range</b>		N/A	Up to 120 dB	Up to 120 dB
<b>Operation</b>				
<b>Video Compression</b>		H.265, H.264	H.265, H.264	H.265, H.264
<b>Video Streaming</b>		Triple streams	Triple streams	Triple streams
<b>Frame Rate</b>		5 MP: 2592 x 1944	5 MP: 2880 x 1620	5 MP: 2880 x 1620
		4 MP: 2592 x 1520	4 MP: 2592 x 1520	4 MP: 2592 x 1520
		3 MP: 2304 x 1296	3 MP: 2304 x 1296	3 MP: 2304 x 1296
		1080P: 1920 x 1080	1080P: 1920 x 1080	1080P: 1920 x 1080
		960P: 1280 x 960	960P: 1280 x 960	960P: 1280 x 960
		720P: 1280 x 720	720P: 1280 x 720	720P: 1280 x 720
<b>AI Analytics</b>		N/A	Line Crossing Detection / Perimeter Intrusion Detection / Stationary Object Detection / Human & Vehicle Detection / Cross Counting / Queue Length Detection / Crowd Density Detection / Heat Map Statistics / License Plate Detection / Face Detection / Rare Sound Detection	Line Crossing Detection / Perimeter Intrusion Detection / Stationary Object Detection / Human & Vehicle Detection / Cross Counting / Queue Length Detection / Crowd Density Detection / Heat Map Statistics / License Plate Detection / Face Detection / Rare Sound Detection
<b>Audio Compression</b>		G.711	G.711	G.711
<b>Audio Support</b>		One-way Audio (built-in microphone)		
<b>Optical Lens</b>				
<b>Megapixel</b>		Yes	Yes	Yes
<b>Day/Night</b>		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
<b>Lens Type</b>		Fixed	Fixed	Fixed
<b>Focal Length</b>		2.8 mm	2.8 mm	2.8 mm
<b>Maximum Aperture</b>		F/1.6	F/1.6	F/1.0
<b>Mount</b>		M12	M12	M12
<b>Image Format</b>		1/2.7"	1/2.7"	1/2.7"
<b>Horizontal FOV</b>		Horizontal: 97°, Vertical: 70.57°, Diagonal: 128.66°	Horizontal: 110.6°, Vertical: 58.7°, Diagonal: 133.1°	Horizontal: 110°, Vertical: 58.7°, Diagonal: 131.6°
<b>Operation</b>	<b>Focus</b>	Fixed	Fixed	Fixed
	<b>Zoom</b>			
	<b>Iris</b>			
<b>IR LED Quantity</b>		2 IR LED	2 IR LED	2 IR LED
<b>Max. IR Distance</b>		30 m (100 ft)	30 m (100 ft)	30 m (100 ft)
<b>Warm LED Quantity</b>		N/A	N/A	2 warm LED
<b>Max. Warm Distance</b>		N/A	N/A	25 m (80 ft)
<b>Mechanical</b>				
<b>Camera Angle Adjustment</b>	<b>Pan</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°
	<b>Tilt</b>	0° ~ 80°	0° ~ 80°	0° ~ 80°
	<b>Rotate</b>	0° ~ 360°	0° ~ 360°	0° ~ 360°
<b>3-axis Mechanism</b>		N/A	Yes	Yes
<b>Connectors</b>	<b>Power</b>	DC Jack, PoE	DC Jack, PoE	DC Jack, PoE
	<b>Ethernet</b>	Ethernet (10/100 Base-T), RJ45 cable	Ethernet (10/100 Base-T), RJ45 cable	Ethernet (10/100 Base-T), RJ45 cable
	<b>Audio</b>	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)
	<b>TV-Out</b>	N/A	N/A	N/A
	<b>Local Storage</b>	Micro SD card slot, up to 256 GB (SD/SDHC/SDXC) *Class 10, UHS-I, UHS-II card type is not supported.	Micro SD card slot, up to 256 GB (SD/SDHC/SDXC) *Class 10, UHS-I, UHS-II card type is not supported.	Micro SD card slot, up to 256 GB (SD/SDHC/SDXC) *Class 10, UHS-I, UHS-II card type is not supported.
<b>General</b>				
<b>Environment</b>	<b>Start-up</b>	-30 ~ 55°C (-22°F ~ 131°F)	-30 ~ 55°C (-22°F ~ 131°F)	-30 ~ 55°C (-22°F ~ 131°F)
	<b>Operation</b>	-30 ~ 60°C (-22°F ~ 140°F)	-30 ~ 60°C (-22°F ~ 140°F)	-30 ~ 60°C (-22°F ~ 140°F)
<b>Humidity</b>		0% ~ 95% (no condensation)	0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
<b>Power Source</b>		12V DC, 1A / PoE (IEEE 802.3af)	12V DC, 1A / PoE (IEEE 802.3af)	12V DC, 1A / PoE (IEEE 802.3af)
<b>Max. Power Consumption</b>		5 W	5 W	7 W
<b>Regulatory</b>		FCC and RoHS compliant	CE, FCC, LVD, RoHS compliant	CE, FCC, LVD, RoHS compliant
<b>Dimensions (L X W X H)</b>		Ø 100 x 90 mm (Ø 3.94" x 3.54")	Ø 100 x 90 mm (Ø 3.94" x 3.54")	Ø 100 x 90 mm (Ø 3.94" x 3.54")
<b>Weight</b>		420 g (0.93 lb)	420 g (0.93 lb)	0.41 kg (0.91 lb)
<b>Ingress Protection</b>		IP66	IP66	IP66
<b>Vandal Resistance</b>		N/A	N/A	N/A






Note: Product design and specifications are subject to change without notice.

## IP Camera Comparison (Part 2)

Model		UA-R800F2	UA-B580F3
			
<b>Camera</b>			
Image Sensor		1/2.7"	1/2.7"
Picture Elements		3840 (H) x 2160 (V)	2880 (H) x 1620 (V)
Minimum Illumination	Color	0.002 lux	0.005 lux
	B/W	0 lux	0 lux
	IR ON	0 lux	0 lux
Shutter Speed		1/5 ~ 1/20000 s	1/5 ~ 1/20000 s
White Balance		Auto / Manual	Auto / Manual
Gain Control		Auto	Auto
S/N Ratio		36 dB	39 dB
WDR		WDR Pro	WDR Pro
Dynamic Range		Up to 120 dB	Up to 120 dB
<b>Operation</b>			
Video Compression		H.265, H.264	H.265, H.264
Video Streaming		Triple streams	Triple streams
Frame Rate		8 MP: 3840 x 2160	5 MP: 2880 x 1620
		5 MP: 3072 x 1728 / 2592 x 1944	4 MP: 2592 x 1520
		4 MP: 2592 x 1520	3 MP: 2304 x 1296
		3 MP: 2304 x 1296	1080P: 1920 x 1080
		1080P: 1920 x 1080	960P: 1280 x 960
		960P: 1280 x 960	720P: 1280 x 720
Audio Compression		G.711	G.711
AI Analytics		Line Crossing Detection / Perimeter Intrusion Detection / Stationary Object Detection / Human & Vehicle Detection / Cross Counting / Queue Length Detection / Crowd Density Detection / Heat Map Statistics / Face Detection / Rare Sound Detection	Line Crossing Detection / Perimeter Intrusion Detection / Stationary Object Detection / Human & Vehicle Detection / Cross Counting / Queue Length Detection / Crowd Density Detection / Heat Map Statistics / License Plate Detection / Face Detection / Rare Sound Detection
Audio Support		One-way Audio (built-in microphone)	One-way Audio (built-in microphone)
<b>Optical Lens</b>			
Megapixel		Yes	Yes
Day/Night		Yes (with removable IR-cut filter)	Yes (with removable IR-cut filter)
Lens Type		Fixed	Fixed
Focal Length		2.8 mm	3.6 mm
Maximum Aperture		F/1.6	F/1.0
Mount		M12	M12
Image Format		1/2.7"	1/2.7"
Horizontal FOV		Horizontal: 110°, Vertical: 58°, Diagonal: 132°	Horizontal: 88.3°, Vertical: 47.8°, Diagonal: 104.7°
Operation	Focus	Fixed	Fixed
	Zoom		
	Iris		
IR LED Quantity		2 IR LED	2 IR LED
Max. IR Distance		30 m (100 ft)	30 m (100 ft)
Warm LED Quantity		N/A	2 warm LED
Max. Warm Distance		N/A	25 m (80 ft)
<b>Mechanical</b>			
Camera Angle Adjustment	Pan	0° ~ 360°	0° ~ 360°
	Tilt	0° ~ 80°	0° ~ 80°
	Rotate	0° ~ 360°	0° ~ 360°
3-axis Mechanism		Yes	Yes
Connectors	Power	DC Jack, PoE	DC Jack, PoE
	Ethernet	Ethernet (10/100 Base-T), RJ45 cable	Ethernet (10/100 Base-T), RJ45 cable
	Audio	1 In (built-in microphone)	1 In (built-in microphone)
	TV-Out	N/A	N/A
	Local Storage	Micro SD card slot, up to 256 GB (SD/SDHC/SDXC) *Class 10, UHS-I, UHS-II card type is not supported.	Micro SD card slot, up to 256 GB (SD/SDHC/SDXC) *Class 10, UHS-I, UHS-II card type is not supported.
<b>General</b>			
Environment	Start-up	-30 ~ 55°C (-22°F ~ 131°F)	-30 ~ 55°C (-22°F ~ 131°F)
	Operation	-30 ~ 60°C (-22°F ~ 140°F)	-30 ~ 60°C (-22°F ~ 140°F)
Humidity		0% ~ 95% (no condensation)	0% ~ 95% (no condensation)
Power Source		12V DC, 1A / PoE (IEEE 802.3af)	12V DC, 1A / PoE (IEEE 802.3af)
Max. Power Consumption		5.5 W	7.5W
Regulatory		FCC and RoHS compliant	CE, FCC, LVD, RoHS compliant
Dimensions (L X W X H)		Ø 100 x 90 mm (Ø 3.9" x 3.5")	151.3 x 74.1 x 74.1 mm (5.96" x 2.91" x 2.91")
Weight		420 g (0.93 lb)	0.36 kg (0.79 lb)
Ingress Protection		IP66	IP66
Vandal Resistance		N/A	N/A

Note: Product design and specifications are subject to change without notice.

## Analog Camera Comparison

Model	UA-CR200F2	UA-CR250F2	UA-CR510F2	UA-CR550F2	UA-CB550F3	
						
Camera						
Image Sensor	1/3"	1/3"	1/2.7"	1/2.7"	1/2.7"	
Picture Elements	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2592 (H) x 1944 (V)	2592 (H) x 1944 (V)	2592 (H) x 1944 (V)	
Minimum Illumination	0.05 Lux @ F1.2 (AGC ON)					
	Color					
	B/W	0 Lux	0 Lux	0 Lux	0 Lux	0 Lux
	IR ON	0 Lux	0 Lux	0 Lux	0 Lux	0 Lux
White Balance	ATW	ATW	ATW	ATW	ATW	
Gain Control	Auto	Auto	Auto	Auto	Auto	
WDR	Yes	Yes	No	No	No	
Operation						
Video Output	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	TVI / AHD / CVI / CVBS	
Frame Rate	AHD / CVI / TVI: 2 MP, PAL @ 25 fps, NTSC @ 30 fps, CVBS: 960H	AHD / CVI / TVI: 2 MP, PAL @ 25 fps, NTSC @ 30 fps, CVBS: 960H	AHD / TVI: 5 MP @ 20 fps, AHD / CVI / TVI: 4 MP, PAL @ 25 fps, NTSC @ 30 fps, CVBS: 960H	AHD / TVI: 5 MP @ 20 fps, AHD / CVI / TVI: 4 MP, PAL @ 25 fps, NTSC @ 30 fps, CVBS: 960H	AHD / TVI: 5 MP @ 20 fps, AHD / CVI / TVI: 4 MP, PAL @ 25 fps, NTSC @ 30 fps, CVBS: 960H	
Audio Support	One-way Audio					
Optical Lens						
Megapixel	Yes	Yes	Yes	Yes	Yes	
Lens Type	Fixed	Fixed	Fixed	Fixed	Fixed	
Focal Length	2.8 mm				3.6 mm	
Maximum Aperture	F/2.2	F/1.0	F/1.6	F/1.0	F/1.0	
Mount	M12	M12	M12	M12	M12	
Horizontal FOV	Horizontal: 88.24°, Vertical: 48.71°, Diagonal: 104.37°	Horizontal: 95°, Vertical: 50.9°, Diagonal: 112.1°	Horizontal: 111.4°, Vertical: 58.8°, Diagonal: 134°	Horizontal: 109.7°, Vertical: 57.6°, Diagonal: 131°	Horizontal: 88.1°, Vertical: 47.5°, Diagonal: 104.1°	
Operation	Focus					
	Zoom	Fixed	Fixed	Fixed	Fixed	
	Iris					
IR LED Quantity	18 IR LED	2 IR LED	18 IR LED	2 IR LED	2 IR LED	
Max. IR Distance	20 m (65 ft)	30 m (100 ft)	20 m (65 ft)	30 m (100 ft)	30 m (100 ft)	
Warm LED Quantity	N/A	2 warm LED	N/A	2 warm LED	2 warm LED	
Max. Warm Distance	N/A	20 m (65 ft)	N/A	20 m (65 ft)	20 m (65 ft)	
Mechanical						
Camera Angle Adjustment	Pan	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	
	Tilt	0° ~ 80°	0° ~ 80°	0° ~ 80°	0° ~ 90°	
	Rotate	0° ~ 360°	0° ~ 360°	0° ~ 360°	0° ~ 360°	
Connectors	Power	DC Jack	DC Jack	DC Jack	DC Jack	
	Video Output	1 channel BNC	1 channel BNC	1 channel BNC	1 channel BNC	
	Audio	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)	1 In (built-in microphone)
General						
Environment	-30°C ~ 55°C (-22°F ~ 131°F)					
Temperature	-30°C ~ 60°C (-22°F ~ 140°F)					
Humidity	0% ~ 95% (no condensation)					
Power Source	12V DC, 1A					
Max. Power Consumption	IR OFF ≤ 0.5W, IR ON ≤ 3.5W		IR OFF ≤ 1W, IR ON ≤ 4W		IR OFF ≤ 1W, IR ON ≤ 4.5W	
Regulatory	FCC, RoHS compliant					
Dimensions (L X W X H)	100 × 90 mm (3.9" × 3.5")				151.3 × 74.1 × 74.1 mm (5.96" × 2.91" × 2.91")	
Weight	410 g (0.90 lb)				350 g (0.77 lb)	
Ingress Protection	IP66					

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