

IQ Digital Back Range

Technical Specifications

IQ3



IQ1



Specifications

	IQ3 100MP	IQ3 80MP	IQ3 50MP	IQ3 100MP Achromatic	IQ1 100MP	IQ1 80MP	IQ1 50MP
Resolution	101 Megapixel	80 Megapixel	51 Megapixel	101 Megapixel	101 Megapixel	80 Megapixel	51 Megapixel
Long exposure	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes	2 minutes	60 minutes
16 bit Opticolor+	Yes	Yes	n/a	n/a	Yes	Yes	n/a
Dynamic range	15 f-stops	13 f-stops	14 f-stops	15 f-stops	15 f-stops	12.5 f-stops	14 f-stops
Sensitivity (ISO)	50 - 12800	50 - 800	100 - 6400	200 - 51200	50 - 12800	35 - 800	100 - 6400
Sensitivity (ISO) - Long Exp.	50 - 12800	200 - 3200	100 - 6400	200 - 51200	50 - 12800	n/a	100 - 6400
Sensor+ (ISO) - 1/4 res.	n/a	200 - 3200	n/a	n/a	n/a	140 - 3200	n/a
Lens factor	1	1	1.3	1	1	1	1.3
Sensor type	CMOS	CCD	CMOS	CMOS	CMOS	CCD	CMOS
Sensor Size	53.4 x 40.1	53.7 x 40.4	44.0 x 33.0	53.4 x 40.1	53.4 x 40.1	53.7 x 40.4	44.0 x 33.0
Active pixels	11608 x 8708	10328 x 7760	8280 x 6208	11608 x 8708	11608 x 8708	10328 x 7760	8280 x 6208
Pixel size (micron)	4.6 x 4.6	5.2 x 5.2	5.3 x 5.3	4.6 x 4.6	4.6 x 4.6	5.2 x 5.2	5.3 x 5.3
Output image dim. 300 DPI	98.3 x 73.2 cm	87.4 x 65.6 cm	70.1 x 52.6 cm	98.3 x 73.2 cm	98.3 x 73.2 cm	87.4 x 65.6 cm	70.1 x 52.6 cm
Output image dim. 600 DPI	49.1 x 36.9 cm	43.7 x 32.8 cm	35.0 x 26.3 cm	49.1 x 36.9 cm	49.1 x 36.9 cm	43.7 x 32.8 cm	35.0 x 26.3 cm
Mount options*	XF, H	XF, H, V	XF	XF	XF, H	P, H, V, C	P, H, V, C
3.2" Touch Display	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Bandwidth Interface	Yes	Yes	Yes	Yes	n/a	n/a	n/a
XF Powershare	Yes	Yes	Yes	Yes	n/a	n/a	n/a
Wi-Fi 802.11 n	Yes	Yes	Yes	Yes	n/a	n/a	n/a

Captures per second

	14-bit		16-bit	14-bit		16-bit	14-bit		16-bit	
Focal Plane (Full res.)	1.4	0.7	0.8	1.8	1.1	0.6	1.4	0.7	0.8	1.8
Focal Plane (Sensor+)	n/a		1.1	n/a	n/a		n/a		1.1	n/a
Leaf shutter (Full res.)	1.2	0.7	0.7	1.4	0.9	0.5	1.2	0.7	0.7	1.4
Leaf shutter (Sensor+)	n/a		1.0	n/a	n/a		n/a		1.0	n/a

XF Camera System

Feature Differentiation

Sensor Choices

XF Camera System Feature Differences	XF IQ3 Camera System	XF IQ1 Camera System
CMOS range	100MP 100MP Achromatic 50MP	100MP 50MP
CCD range	80MP	80MP

Sensor Core Technology

	XF IQ3 Camera System	XF IQ1 Camera System
IIQ L 16 Bit	100MP 100MP Achromatic 80MP	100MP 80MP
Long exposure	Yes	CMOS only
HDMI	100MP 100MP Achromatic	No
Electronic shutter (ES)	100MP 100MP Achromatic	No

Tools & Features

	XF IQ3 Camera System	XF IQ1 Camera System
Capture from live view	Yes	No
Exposure calculator	Yes	No
XF camera controls from home screen	Yes	Yes
XF camera controls from tool view (inside play)	Yes	No
XF camera controls from camera menu	Yes	No
XF camera menu with settings for XF	Yes	No
Exposure zone tool	Yes	No
Clip warning tool	Yes	No
Auto ISO and ISO control	Yes	No

Storage & Connectivity

	XF IQ3 Camera System	XF IQ1 Camera System
Integrated Wi-Fi	802.11n	No
USB 3	Yes	Yes
Firewire 800	Yes	Yes
Flash sync port	Back and prism	
High capacity back interface	Yes	No
Storage media	UDMA 7, CF-card slot with spring loaded cover	
Secure storage system	3S technology	
Tripod socket	1/4 inch & 3/8 inch	
Storage engine	1GB image buffer	

Power

	XF IQ3 Camera System	XF IQ1 Camera System
Power share with hot pluggable batteries	Yes	No
Full system power via XF power supply	Yes	No
Advanced battery status indicators	Yes	No
USB3 charging from hub(1500mA)	Yes	No

Flash

	XF IQ3 Camera System	XF IQ1 Camera System
Flash trigger	Integrated Profoto Air Wireless	
Wireless trigger range	20m (outside)	
Back flash sync	Yes	
Flash sync speed focal plane shutters (max)	1/125s	
Flash sync speed leaf shutters (max)	1/1600s	
Flash remote control	Profoto Air up to 6 groups	

Warranty

Warranty:	XF IQ3 Camera System	XF IQ1 Camera System
5 year warranty	Yes	No
5 year uptime guarantee	Yes	No
Free lens choice upon purchase	Yes	No

Packaging

	XF IQ3 Camera System	XF IQ1 Camera System
Pelican Storm Case (Watercase with handle and wheels)	Yes	No
Modular F-stop ICU for camera system	Yes	No
Laptop compartment with built in sunshade (tether station)	Yes	No
Card reader and CF card	Yes	No
Lens calibration plate	Yes	No
2 batteries	Yes	No
Tech camera sync cable	Yes	No

Operating Requirements

	XF IQ3 Camera System	XF IQ1 Camera System
Temperature	0° to 40° C 32° to 104° F	
Humidity	0 to 80 % (non-condensing)	