

IQ Camera System Overview

Technical Specifications



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IQ4



IQ3



Specifications

	IQ4 150MP	IQ4 150MP Achromatic	IQ4 100MP Trichromatic	IQ3 100MP	IQ3 100MP Achromatic
Resolution	151 Megapixel	151 Megapixel	101 Megapixel	101 Megapixel	101 Megapixel
Long exposure	60 minutes	60 minutes	60 minutes	60 minutes	60 minutes
16 bit Opticolor+	Yes	Yes	Yes	Yes	Yes
Sensitivity (ISO)	50 - 25600	200 - 102400	35 - 12800	50 - 12800	200 - 51200
Dynamic Range	15 F-stops*	15 F-stops*	15 F-stops	15 F-stops	15 F-stops
Sensor type	CMOS BSI	CMOS BSI	CMOS	CMOS	CMOS
Sensor size	53.4 x 40	53.4 x 40	53.4 x 40	53.4 x 40	53.4 x 40
Active pixels	14204 x 10652	14204 x 10652	11608 x 8708	11608 x 8708	11608 x 8708
Pixel size (micron)	3.76 x 3.76	3.76 x 3.76	4.6 x 4.6	4.6 x 4.6	4.6 x 4.6
Output image dim. 300 DPI	120.26 x 90.19 cm	120.26 x 90.19 cm	98.3 x 73.2 cm	98.3 x 73.2 cm	98.3 x 73.2 cm
Output image dim. 600 DPI	60.13 x 45.09 cm	60.13 x 45.09 cm	49.1 x 36.9 cm	49.1 x 36.9 cm	49.1 x 36.9 cm
Mount option	XF	XF	XF	XF*, H	XF*
3.2" touch display	Yes	Yes	Yes	Yes	Yes
XF Powershare	Yes	Yes	Yes	Yes	Yes
Electronic Shutter (ES)	Yes	Yes	Yes	Yes	Yes
HDMI	Yes	Yes	Yes	Yes	Yes
File formats	IIQ L 16 Extended, IIQ L 16, IIQ L, IIQ S, IIQ S 14+	IIQ L 16 Extended, IIQ L 16, IIQ L, IIQ S, IIQ S 14+	IIQ L 16, IIQ L, IIQ S	IIQ L 16, IIQ L, IIQ S	IIQ L 16, IIQ L, IIQ S
Sensor +	Yes	Yes	No	No	No
Wi-Fi 802.11	Yes	Yes	Yes	Yes	Yes
Capture One Inside	Yes	Yes	Yes	No	No
Infinity Platform	Yes	Yes	Yes	No	No

Captures per second

	14-bit		16-bit		14-bit		16-bit		14-bit		16-bit	
Focal plane (full res.)	1.4	0.7	1.4	0.7	1.4	0.7	1.4	0.7	1.1	0.6	1.1	0.6
Leaf shutter (full res.)	1.2	0.7	1.2	0.7	1.2	0.7	1.2	0.7	0.9	0.5	0.9	0.5

Images

IQ4 150MP © Paul Reiffer IQ4 150MP Achromatic © Paul Reiffer IQ4 100MP Trichromatic © Yulia Gorbachenko IQ3 100MP © David LaChapelle IQ3 100MP Achromatic © Joel Tjintjelaar

Mount option*

XF: XF, DF+ and DF H: Hasselblad H1 and H2 V: Hasselblad V-series

Dynamic Range*

IIQ L 16 Extended file format

XF Camera System

Feature Differentiation



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Sensor Choices

XF Camera System Feature Differences	XF IQ4 Camera System	XF IQ3 Camera System
CMOS FSI range	100MP Trichromatic	100MP 100MP Achromatic
CMOS BSI range	150MP 150MP Achromatic	-

Sensor Core Technology

	150MP 150MP Achromatic 100MP Trichromatic	100MP 100MP Achromatic
IIQ L 16 Bit		
Long exposure	Yes	Yes
HDMI	HDMI 2.0	HDMI 1.4
Electronic Shutter (ES)	Yes	Yes

Tools & Features

	Yes	Yes
Capture from live view	Yes	Yes
Histogram in live view	Yes	No
Focus peak in live view	Yes	No
Exposure simulation in live view	Yes	No
Exposure calculator	Yes	Yes
XF camera controls from home screen	Yes	Yes
XF camera controls from tool view (inside play)	Yes	Yes
XF camera controls from camera menu	Yes	Yes
XF camera menu with settings for XF	Yes	Yes
Exposure zone tool	Yes	Yes
Clip warning tool	Yes	Yes
Auto ISO and ISO control	Yes	Yes

Storage & Connectivity

	XF IQ4 Camera System	XF IQ3 Camera System
Integrated Wi-Fi	802.11ac	802.11n
Wi-Fi Tethering	Yes	No
USB	USB-C	USB-B
Ethernet	Gigabit	No
Flash sync port	Back and Prism	
High capacity back interface	Yes	Yes
Storage media	XQD & SD	CF
Tripod socket	1/4 inch & 3/8 inch	
System RAM	8GB	2GB

Flash

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

Focus & Autofocus

Autofocus Sensor	HAP-2 1MP CMOS Sensor
Autofocus Processor	HAP-2 Processor with Floating Point Architecture
Autofocus Assist light	HAP-2 Precision White light
Hyperfocal Point Focusing	Yes
Upgradeable Autofocus configurations & Patterns	Yes
Autofocus modes	Spot, Average, Hyperfocal
Interchangeable focusing screens	Yes

Warranty

Warranty:	XF IQ4 Camera System	XF IQ3 Camera System
5 year warranty	Yes	No
5 year uptime guarantee	Yes	No
Free lens choice upon purchase	Yes	No

Packaging

Pelican Storm Case (Watercase with handle and wheels)	Yes	Yes
Removable Camera Insert	RCI-M & RCI-S	RCI-L
Form Fitting Foam	Yes	No
Accessory Cases	Yes	No
Laptop compartment with built in sunshade (tether station)	Yes	Yes
Card reader and card	XQD & SD	CF
Gray Cards & LCC calibration kit	Yes	Yes
3400 mAh Batteries	4	4

Operating Requirements

Temperature	0° to 40° C 32° to 104° F
Humidity	0 to 80 % (non-condensing)

Power

Power share with hot pluggable batteries	Yes	Yes
Power Over Ethernet (PoE)	Yes	No
Power over USB-C	Yes	No
Charging via USB-C & Ethernet	Yes	No