

# IQ Digital Back Range

## Technical Specifications

### IQ3



### IQ1



#### Specifications

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

#### Captures per second

	14-bit		16-bit		14-bit		16-bit		14-bit		16-bit	
<b>Focal plane (full res.)</b>	1.4	0.7	1.4	0.7	1.1	0.6	0.8	1.8	1.4	0.7	1.8	
<b>Focal plane (Sensor+)</b>	n/a		n/a		n/a		1.1	n/a	n/a		n/a	
<b>Leaf shutter (full res.)</b>	1.2	0.7	1.2	0.7	0.9	0.5	0.7	1.4	1.2	0.7	1.4	
<b>Leaf shutter (Sensor+)</b>	n/a		n/a		n/a		1.0	n/a	n/a		n/a	

# XF Camera System

## Feature Differentiation

## Sensor Choices

XF Camera System Feature Differences	XF IQ3 Camera System	XF IQ1 Camera System
<b>CMOS range</b>	100MP 100MP Achromatic 100MP Trichromatic 50MP	100MP 50MP
<b>CCD range</b>	80MP	-

## Sensor Core Technology

<b>IIQ L 16 Bit</b>	100MP 100MP Achromatic 100MP Trichromatic 80MP	100MP
<b>Long exposure</b>	Yes	-
<b>HDMI</b>	100MP 100MP Achromatic 100MP Trichromatic	No
<b>Electronic Shutter (ES)</b>	100MP 100MP Achromatic 100MP Trichromatic	No

## Tools & Features

<b>Capture from live view</b>	Yes	No
<b>Exposure calculator</b>	Yes	No
<b>XF camera controls from home screen</b>	Yes	Yes
<b>XF camera controls from tool view (inside play)</b>	Yes	No
<b>XF camera controls from camera menu</b>	Yes	No
<b>XF camera menu with settings for XF</b>	Yes	No
<b>Exposure zone tool</b>	Yes	No
<b>Clip warning tool</b>	Yes	No
<b>Auto ISO and ISO control</b>	Yes	No

## Storage & Connectivity

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

## Flash

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

## Focus & Autofocus

### HAP-2

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

## Warranty

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

## Packaging

<b>Pelican Storm Case (Watercase with handle and wheels)</b>	Yes	No
<b>Modular Phase One camera bag insert</b>	Yes	No
<b>Laptop compartment with built in sunshade (tether station)</b>	Yes	No
<b>Card reader and CF card</b>	Yes	No
<b>Lens calibration plate</b>	Yes	No
<b>3400 mAh Batteries</b>	4	2
<b>Tech camera sync cable</b>	Yes	No

## Operating Requirements

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

## Power

<b>Power share with hot pluggable batteries</b>	Yes	No
<b>Full system power via XF power supply</b>	Yes	No
<b>Advanced battery status indicators</b>	Yes	No
<b>USB3 charging from hub (1500mA)</b>	Yes	No