

# XF Camera Systems

## Technical Specifications



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## Imaging Sensor



### Imaging Sensors

<b>Digital Back Options</b>	IQ3 50-80MP & IQ1 40-80MP with XF mounts (See specification for Digital Backs)
<b>Backwards Compatibility</b>	IQ1 & IQ2 with P/M mounts

## Controls & OS



### Camera OS

<b>User Interface</b>	OneTouch UI
<b>Screen layouts</b>	2 standard layouts
<b>Custom modes</b>	3 configurations
<b>Custom settings</b>	80+ settings
<b>User upgradeable via Back</b>	yes

## Focus & Autofocus



### HAP-1

<b>Autofocus Sensor</b>	HAP-1 IMP CMOS Sensor
<b>Autofocus Processor</b>	HAP-1 Processor with Floating Point Architecture
<b>Autofocus Assist light</b>	HAP-1 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>	Matte (default), Split, Center prism

## Imaging software



### Software

<b>RAW converter</b>	Capture One PRO 8.3 or newer
<b>Tethered support</b>	yes
<b>Workflow options</b>	Sessions and Catalogues
<b>Lens Corrections</b>	Phase One Focal Plane Lenses & Schneider Kreuznach Leaf Shutter lenses
<b>Imaging Tools</b>	25+
<b>Local adjustments</b>	Adjustment & Clone Layers
<b>Batch output</b>	yes, using recipes and multiple destinations
<b>Output formats</b>	8 & 16 bit TIFF-RGB, TIFF-CMYK, JPEG incl. XR/2000/QuickProof tm, DNG, PNG, PSD

## Viewfinder



### 90° Prism      Waist level

<b>Modular viewfinders</b>	Yes	
<b>Frame Coverage</b>	97%	97%
<b>Exchangeable diopter</b>	3 options	7 options
<b>Diopter range</b>	Range from -5 to +3	Range from -3 to +2
<b>Default diopter magnification</b>	-2.5 to +2.5	0
<b>Collapsible diopter</b>	no	yes
<b>Visible Exp. information</b>	yes	no

## Lenses & Shutters



### Lens Range      35mm Equivalent

<b>Focal Plane lenses</b>	8 lenses	
<b>Focal Length range</b>	28mm - 150mm	17mm - 93mm
<b>Leaf shutter lenses</b>	12 lenses	
<b>Focal Length Range</b>	28mm - 240mm	17mm - 149mmw
<b>Legacy Lens support</b>	60+ lenses	



### Shutter

<b>Integrated focal plane shutter</b>	yes
<b>Support for leaf shutters</b>	yes
<b>Shutter priority selection</b>	LS or FPS
<b>Longest shutter time (recommended)</b>	60 Minutes
<b>Fastest shutter speed</b>	1/4000s
<b>Flash sync speed focal plane shutters (max)</b>	1/125s
<b>Flash sync speed leaf shutters (max)</b>	1/1600s

## Capture & Light metering



### Features

<b>Frames per second</b>	Variable following digital back			
<b>Capture Drive Modes</b>	Single yes	Continuous yes	Low vibration yes	Exposure bracketing 2-5 frames
<b>Toggle Mirror-up</b>	yes			
<b>Capture from liveview</b>	yes			
<b>TTL Light metering</b>	Average, spot and auto			
<b>HAP-1 Light Metering</b>	used with waist level finder			
<b>Viewfinder black-out time</b>	150ms (FPS), 400ms (LS)			
<b>AE Lock</b>	yes			
<b>Exposure compensation</b>	+/- 5 EV			

# XF IQ3 Camera System

## Technical Specifications

### What's in the box



#### XF IQ3 Camera System

#### XF IQ1 Camera System

	XF IQ3 Camera System	XF IQ1 Camera System
Phase One XF Camera with Prism viewfinder	yes	yes
IQ Digital Back	Choice of 50MP, 60MP, 80MP	Choice of 40MP, 50MP, 60MP, 80MP
Waist level viewfinder	optional	optional
Schneider Kreuznach 80mm LS f/2.8	yes	yes
Capture One Pro 8	yes	yes
Pelican Storm Carry On Case	yes	no
F-stop Phase One flexible ICU	yes	no
F-stop Phase One Laptop Sunshade	yes	no
Charger for IQ3 and XF	yes	yes
3400 mAh Batteries	4	2
16 GB CF-Card and Reader	yes	no
Gray Cards & LCC calibraton kit	yes	yes
Sensor Cleaning Kit	yes	yes
FW and USB cable	yes	yes
Focusing screen	yes	yes

### Size & Weight



#### Dimensions (WxHxD)

#### Weight

	Dimensions (WxHxD)	Weight
XF Camera System* w/ 90° Prism viewfinder	152 x 135 x 160 (mm)	1390g
XF Camera System* w/ Waist level finder	152 X 173 X 160 (mm)	1020g
XF Camera Body w/o battery	152 x 108 x 85 (mm)	790g
IQ3 Digital back	98,5 x 88,5 x 62,3 (mm)	695g
90° Prism Viewfinder	68 x 52 x 152 (mm)	500g
Waist level finder	67 x 17 x 57mm (closed) 67 x 65 x 57 (open)	130g

\* without lens

### Battery

Battery	BP-911/914/915 3400 mAh
Powershare	IQ3 only
Battery Charger	Integrated
Support for USB 3 Charging hub (1.5 A)	IQ3 only
High capacity back interface	IQ3 only

### Flash

Flash trigger	Integrated Profoto 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

# IQ Digital Back range

## Technical Specifications

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### IQ3



### IQ1



### IQ2



#### Specifications

	IQ3 80MP	IQ3 60MP	IQ3 50MP	IQ1 80MP	IQ1 60MP	IQ1 50MP	IQ1 40MP	IQ2 60MP Acromatic
<b>Resolution</b>	80 Megapixel	60 Megapixel	50 Megapixel	80 Megapixel	60 Megapixel	50 Megapixel	40 Megapixel	60 Megapixel
<b>Long exposure</b>	60 minutes	60 minutes	60 minutes	2 minutes	2 minutes	60 minutes	2 minutes	2 minutes
<b>16 bit Opticolor+</b>	yes	yes	no	yes	yes	no	yes	no
<b>Dynamic range</b>	13 f-stops	13 f-stops	14 f-stops	13 f-stops	13 f-stops	14 f-stops	13 f-stops	13 f-stops
<b>Sensitivity (ISO)</b>	50-800	50-800	100-6400	35-800	50-800	100-6400	50-800	200 - 3200
<b>Sensitivity (ISO) - Long Exp.</b>	200-3200	140-3200	100-6400	no	no	100-6400	no	no
<b>Sensor+ (ISO) - 1/2 res.</b>	200-3200	200-3200	no	140-3200	200-3200	no	200-3200	no
<b>Lens factor</b>	1	1	1,3	1	1	1,3	1,3	1
<b>Sensor type</b>	CCD	CCD	CMOS	CCD	CCD	CMOS	CCD	CCD
<b>Sensor Size</b>	53.7 x 40.4	53.9 x 40.4	44 x 33	53.7 x 40.4	53.9 x 40.4	44 x 33	43.9 x 32.9	53.7 x 40.3
<b>Active pixels</b>	10328 x 7760	8984 x 6732	8280 x 6208	10328 x 7760	8984 x 6732	8280 x 6208	7320 x 5484	8964 x 6716
<b>Pixel size (micron)</b>	5.2 x 5.2	6.0 x 6.0	5.3 x 5.3	5.2 x 5.2	6.0 x 6.0	5.3 x 5.3	6.0 x 6.0	6.0 x 6.0
<b>Output image dim. 300 DPI</b>	87.4 x 65.6 cm	76.1 x 57 cm	70.1 x 52.6 cm	87.4 x 65.6 cm	76.1 x 57 cm	70.1 x 52.6 cm	61.9 x 46.4 cm	76.1 x 57 cm
<b>Output image dim. 600 DPI</b>	43.7 x 32.8 cm	38 x 28.5 cm	35.0 x 26.3 cm	43.7 x 32.8 cm	38 x 28.5 cm	35.0 x 26.3 cm	30.1 x 23.2 cm	38 x 28.5 cm
<b>Mount options</b>	XF/H/V	XF (IQ2 available for H/V)	XF (IQ2 available for H/V)	XF/H/V	XF/H/V	XF/H/V	XF/H/V	XF/H/V
<b>3.2" Touch Display</b>	yes	yes	yes	yes	yes	yes	yes	yes
<b>High Bandwith port</b>	yes	yes	yes	no	no	no	no	no
<b>XF Powershare</b>	yes	yes	yes	no	no	no	no	no
<b>Wi-Fi 802.11 n</b>	yes	yes	yes	no	no	no	no	yes
<b>Captures per second</b>								
<b>Focal Plane (Full res.)</b>	0,8	0,9	1,8	0,8	0,9	1,8	1,2	0,9
<b>Focal Plane (Sensor+)</b>	1,1	1,2	n/a	1,1	1,2	n/a	1,7	n/a
<b>Leaf shutter (Full res.)</b>	0,7	0,8	1,4	0,7	0,8	1,4	1	0,8
<b>Leaf shutter (Sensor+)</b>	1	1,4	n/a	1	1,4	n/a	1,4	n/a

# IQ Digital Back range

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## Camera Controls & One Touch UI

NEW FEATURES	XF IQ3 Camera System	XF IQ1 Camera System
OneTouch UI including functionality from prev. generation systems	Yes w/ high-bandwidth DB integration	Yes w/limited functionality
Screen layouts	Simple/Classic	Simple/Classic
Custom setups	3 configurations, 80+ settings	3 configurations, 80+ settings
Wireless remote control with Capture Pilot	yes	no
Exposure Calculator	yes	no
Temperature graph tool	yes	no
Exposure zone tool	yes	no
Clip warning (supplement to highlight warning)	yes	no
Auto ISO & ISO control	yes	no
Histogram on XF	yes	no
Virtual horizon on XF	yes	no
Prepared for future feature upgrades	yes	no
Camera Menu	yes, advanced	yes, basic
Vibration data in image file	yes	yes
Wake-up XF from Back	yes	yes
Focus Mask	yes	yes
Virtual Horizon	yes	yes
Black & white Composition Display	yes	yes
Live View for instant focus	yes	yes
Tap, Pan and Browse	yes	yes
Tethered Capture in Capture One PRO	yes	yes

## Storage & Connectivity

Integrated Wi-Fi	802.11 n
USB 3	Yes
Firewire 800	Yes
Flash Sync port	Yes, on Prism and Back
High capacity back interface	Yes
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

## Operating Requirements

Temperature	-10° to 50° C 14° to 122° F
Humidity	0 to 80 % (non-condensing)

## Battery

Battery	BP-911/914/915 3400 mAh
XF Powershare	IQ3 only
Support for USB 3 Charging hub (1.5 A)	IQ3 only

## Warranty

	XF IQ3 Camera System	XF IQ1 Camera System
IQ3 digital back	5 Years	1 Year
XF camera body	5 Years	1 Year
Schneider Kreuznach lenses	5 Years	1 Year
Phase One Lenses	5 Years	1 Year
Viewfinders	5 Years	1 Year
Uptimate Guarantee incl. Loaners during repairs	5 Years	1 year
Access to world-wide service network	yes	yes
24/7 Knowledge Base & Online Support Forum	yes	yes

