



## Detailed Specifications

Model	P32F	P144F	P199F	P501F
Measurement Capabilities	Luminance, Illuminance, Luminous Intensity, ratio			
Units	cd/m <sup>2</sup> , fL, lux, cd, %, user defined			
A/D	12-bit			14-bit
Sony Sensor Size and Type	1/3" ICX424 HAD	1/2" ICX267 Super HAD	1/1.8" ICX274 HAD	2/3" ICX625 Super HAD
Pixel Size (um)	7.4 x 7.4	4.65 x 4.65	4.4 x 4.4	3.45 x 3.45
Image Resolution H x V	648x488	1392x1032	1624x1224	2448x2048
Dynamic Range	>100,000:1 with electronic bracketing			
Luminance Range (cd/m <sup>2</sup> )*1	.007 to 24,000	.015 to 50,000	.02 to 50,000	.08 to 100,000
Optional ND filters	10X, 100X, 1000X			
Meas. time at 1cd/m <sup>2</sup> *1	<.2s	<.6s	<.9s	<1s
Repeatability *2	0.10%			
Accuracy *3	3%			
Exposure timing	Electronic Shutter, 0.02ms to 10s			
Lenses Available	C- or F-Mount			
Dimensions (without lens)	29x29x30 mm			44x29x58 mm
Weight	58 g			104 g
Power Requirements	2W			3.8W
Mounting	Standard 1/4"-20 mount on bottom			
Computer Interface	IEEE-1394b			
Electrical Compliance	CE and Part 15 Class A of FCC Rules			
Temperature	To Cal specifications, 18 to 25C, Operating 5 to 40C; storage -30 to 60C, non-condensing			
Warranty	2 years			

\*1 Typical with zoom lens. With 100:1 resolution. Illuminant A

\*2 Average 6x6 pixel area with sufficient signal to noise

\*3 Relative to calibration standard, 6x6 pixel area, illuminant A, 5 to 1000 cd/m<sup>2</sup> from 5 to 1000 cd/m<sup>2</sup> at F-5.6

\* Specifications are subject to change without notice

## Sample Lenses

Photometer:	P32F	P144F	P199F	P501F
Standard Lenses	Field of View			
<b>IQC-48ZM</b> , 1/2", 8-48mm zoom, 1m to infinity	2.3° x 3°	3.1° x 4.1°	3.7° x 5°	
	to 13° x 17°	to 18° x 3°	to 24° x 31°	
<b>IQC-75ZM</b> , 2/3", 12.5-75mm zoom, 1.2m to infinity	1.8° x 2.4°	2.4° x 3.2°	3° x 4°	4.3° x 5.5°
	to 10° x 13	to 14° x 18°	to 18° x 23°	to 26° x 31°
<b>IQC-55</b> , 55mm macro lens, 0.25m to infinity	2.7° x 3.6°	3.7° x 4.9°	4.5° x 6°	6° x 8°

## Ordering Information

P32F	Digital Photometric Image Analysis System. 648 x 488 resolution, 12-bit A/D including 1394b FireWire interface and cable, RT32 software
P144F	Digital Photometric Image Analysis System. 1392 x 1032 resolution, 12-bit A/D including 1394b FireWire interface and cable, RT32 software
P199F	Digital Photometric Image Analysis System. 1624x 1224 resolution, 12-bit A/D including 1394b FireWire interface and cable, RT32 software
P501F	Digital Photometric Image Analysis System. 2448 x 2048 resolution, 14-bit A/D including 1394b FireWire interface and cable, RT32 software



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