

# PEARL

## 10 Series



### Overview

The PEARL Series is comprised of rich features in an ULTRA COMPACT form factor with a wide range of resolutions that are unrivaled by any other camera supplier. The small form factor provides a minimum of space and weight to benefit challenging installations and applications. With the new addition of higher resolution cameras supporting up to 2 Mega Pixels, form factor is no longer a limit to most applications. Every unit has passed our rigorous testing procedure to ensure reliability; even in mission critical applications.

### Dimension



<http://www.imi-tech.com>

For design help, accessories or pricing, please contact  
[sales@avsupply.com](mailto:sales@avsupply.com) or call: 1-858-565-1101

# Specifications

Model	IMx-20FT	IMx-17FT	IMx-16FT	IMx-15FT	IMx-12FT	IMx-11FT	
<b>Image Sensor</b>	1/1.8" Sony CCD	1/2" Sony CCD	1/3" Sony CCD	1/3" Sony CCD	1/2" Sony CCD	1/3" Sony CCD	
<b>Sensor Name</b>	ICX274 AL/AQ	ICX267 AL/AQ	ICX445 AL/AK	ICX204 AL/AK	ICX414 AL/AK	ICX424 AL/AQ	
<b>Resolution</b>	<b>Megapixel</b>	2.0MP	1.4MP	1.3MP	0.78MP	0.3MP	0.3MP
	<b>HxV</b>	1600 x 1200	1388 x 1040(B/W) 1388 x 1036(color)	1288 x 964 (Mono) 1288 x 960 (Color)	1032 x 776 (Mono) 1028 x 772 (Color)	659 x 494	656 x 488 (Mono) 652 x 484 (Color)
<b>Pixel Size</b>	4.40µm x 4.40µm	4.65µm x 4.65µm	3.75µm x 3.75µm	4.65µm x 4.65µm	9.90µm x 9.90µm	7.40µm x 7.40µm	
<b>Frame Rate</b>	16 fps	20 fps	25 fps	36 fps	86 fps	86 fps	
<b>Digital Interface</b>	IEEE 1394a (6pin) 1 Port						
<b>Transfer Rate</b>	400 Mbps						
<b>Scanning System</b>	Progressive Scan						
<b>Shutter Type</b>	Global Shutter						
<b>Data Path</b>	12bit, Raw RGB, YUV422, Mono 8, Mono 16						
<b>Binning</b>	2x2, 1x2 (Mono only) * Color/Mono is available for Imx-20FT						
<b>ROI</b>	Partial Scan (Unit:4x4)						
<b>Trigger</b>	External or Software Trigger with various mode						
<b>I/O Port</b>	Ext. Trigger, RS232, Strobe (6-pin)						
<b>Memory Save/Load</b>	16 Channels (0:factory, 1~4:feature, 5~15:mode/feature)						
<b>SIO(RS-232)</b>	IIDC Ver.1.31 : Pass through or IMI-Tech Command						
<b>Gain Control</b>	0 ~ 18 dB (Manual or Auto)						
<b>Shutter Speed</b>	1 µsec ~ 3600 sec						
<b>Control Functions</b>	Brightness, Sharpness, Gamma, Auto-gain, Auto-Shutter Pan/Tilt, User defined AE, Hue, Saturation *Auto White Balance						
<b>Lens Mount</b>	C/CS Mount						
<b>Operating Temp.</b>	-5°C ~ 45°C						
<b>Storage Temp.</b>	-30°C ~ 60°C						
<b>Supply Voltage</b>	DC 8V ~ DC 30V						
<b>Dimension</b>	29(W)x29(H)x39(D)mm						

Note : Specification may be subject to change without notice.



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# Specifications

Model		IMC-30FC	IMB-16FC	IMx-13FC
Image Sensor		1/2" Aptina CMOS	1/2" Aptina CMOS	1/3" Aptina CMOS
Sensor Name		MT9T031	MT9M001	MT9V022177ATM/ATC
Resolution	Megapixel	3.0MP	3.0MP	0.36MP
	HxV	2048 x 1536	1280 x 1024	752 x 480
Pixel Size		3.20µm x 3.20µm	3.20µm x 3.20µm	6.00µm x 6.00µm
Frame Rate		11 fps	24 fps	60 fps
Shutter Speed		63 µsec ~ 1sec	60 µsec ~ 500ms	93 µsec ~ 100ms
Digital Interface		IEEE 1394a (6pin) 1 Port		
Transfer Rate		400 Mbps		
Scanning System		Progressive Scan		
Shutter Type		Rolling Shutter * Global Shutter for Imx-13FC only		
Data Path		10bit, Mono8, Mono 16 * 8 or 10 bit Raw, RGB/YUV422 for IMC-30FC only		
Binning		not supported * 2x2 for IMx-13FC only		
ROI		Partial Scan (Unit:4x4)		
Trigger		External or Software Trigger (Mode 0 only)		
I/O Port		Ext. Trigger, RS232, Strobe (6-pin)		
Memory Save/Load		16 Channels (0:factory, 1~4:feature, 5~15:mode/feature)		
SIO(RS-232)		IIDC Ver.1.31 : Pass through or IMI-Tech Command		
Gain Control		0 ~ 12 dB (Manual or Auto)		
Control Functions		Brightness, Sharpness, Gamma, Auto-Shutter, Pan/Tilt (*U/B,V/R,Hue/G), *Auto White Balance		
Lens Mount		C/CS Mount		
Operating Temp.		-5°C ~ 45°C		
Storage Temp.		-30°C ~ 60°C		
Supply Voltage		DC 8V ~ DC 30V		
Dimension		29(W)x29(H)x39(D)mm		

Note : Specification may be subject to change without notice.



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