



## HotShot 1700 cc

**The HotShot line of high-speed digital video cameras from Motion Imaging Corporation provides the user with affordably priced high-speed video featuring Mega Pixel resolution, fast frame rates and superior light sensitivity... all in one extremely compact package!**

MIC's HotShot **1700 cc** is designed to be an easy-to-use, high-speed video solution for research, test and production customers. The HotShot **1700 cc** camera and recording system provides the user with an affordably priced versatile and reliable high-speed video system for a variety of applications including: biomechanics, research, test, design, production, packaging and many more!

The HotShot **1700 cc** is the most versatile compact camera (cc) available— combining high resolution, speed and light sensitivity in one package! It can record brilliant color images or crisp monochrome images at resolutions up to 1696 x 1710 pixels and frame rates up to 200,000 at reduced resolutions!



- **500 fps at full resolution**
- **1000 fps @ 1440 x 1074 pixels**
- **6000 fps @ 544 x 394 pixels**
- **Compact Camera Body ~ 1Kg**
- **Gigabit Ethernet Interface**
- **Available in Monochrome or Color**
- **Up to 16 GB Internal Memory**
- **Intuitive Capture and Control Software**
- **Analysis Software for 2D Tracking of Velocity, Acceleration & Displacement**



## HotShot 1700 cc Features and Specifications

Resolution	1696 x 1710 Pixels
Frame Rate @ Maximum Resolution	500 fps
Onboard Memory	2GB / 4GB / 8GB
Maximum frame rate	200,000
Image Sensor	Progressive Scan CMOS 1.3"
Exposure Time	2 $\mu$ s—1/Framerate
Active Area	13.57 mm x 13.68 mm
Sensor Diagonal Dimension	19.27 mm
Pixel Size	8 $\mu$ m
Storage Bit Depth	8 Bit
Sensor Bit Depth	10 Bit
Sensitivity	ISO 1500 Mono, ISO 500 Color
Shutter	Global electronic, min 2 $\mu$ s exposure time
Trigger Signal	TTL, switch, open collector, rising or falling edge, on image content variation
Synchronization	Internal, external
Interface	Gigabit Ethernet
Video Output	VGA
Power	12 VDC / 12 W
Lens Mount	C-Mount, F-Mount with Adapter
Weight	~ 1Kg
Operating Temperature	0—40 degrees C
Humidity	< 80% relative, non-condensed
Dimensions	145mm x 95mm x 78.5mm
Conformity	CE, RoHS
Optional	LabView Driver



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## Resolution Chart HotShot 1700cc

Frame Rate	Maximum Resolution		Record Time sec			
	FPS	Hor.	Vert.	2GB	4GB	8GB
100	1696	1710	7.24	14.48	28.96	57.93
250	1696	1710	2.90	5.79	11.59	23.17
<b>500</b>	<b>1696</b>	<b>1710</b>	1.45	2.90	5.79	11.59
<b>1,000</b>	<b>1440</b>	<b>1074</b>	1.36	2.72	5.43	10.86
1,500	1200	810	1.44	2.88	5.76	11.52
<b>2,000</b>	<b>1056</b>	<b>702</b>	1.42	2.83	5.67	11.33
2,500	928	626	1.45	2.89	5.78	11.57
3,000	800	590	1.48	2.97	5.93	11.86
4,000	736	474	1.50	3.01	6.02	12.04
5,000	608	438	1.58	3.15	6.31	12.62
<b>6,000</b>	<b>544</b>	<b>394</b>	1.63	3.27	6.53	13.06
8,000	480	326	1.68	3.36	6.71	13.42
10,000	352	322	1.85	3.71	7.41	14.82
10,000	608	214	1.61	3.23	6.46	12.91
15,000	352	206	1.93	3.86	7.72	15.45
20,000	224	206	2.28	4.55	9.10	18.20
25,000	288	138	2.11	4.23	8.45	16.91
30,000	224	126	2.48	4.96	9.92	19.84
40,000	160	110	2.98	5.97	11.93	23.86
50,000	96	106	4.13	8.25	16.51	33.02
60,000	96	78	4.67	9.35	18.70	37.39
80,000	96	50	5.47	10.94	21.88	43.75
100,000	96	34	6.43	12.87	25.74	51.47

Adjustable 32 x 4 increments

subject to change 7/10



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