

# C204M Camera Spec Sheet



Item	Specification				Remark		
<b>Component</b>							
Sensor	SONY CCD						
	Effective Pixel	5184(H)*3888(V) approx. 20.16M pixels					
	Total Pixel	5244(H)*3906(V) approx. 20.48M pixels					
	Aspec ratio	4:3					
Lens	Optical Zoom	4X					
	Construction	6 groups, 6 elements ; 2 glass lens, 4 plastic lens					
	Focal Length	4.6 ( W ) ~ 18.4 ( T ) mm					
	35mm equivalent focal length	26 – 104mm (35mm equivalent)					
	Resolution (or MTF)	Wide: center 1600 TV Line, corner: 1000 TV Line (0.7F) Tele: center: 1500 TV Line, corner: 1000 TV Line (0.7F)					
	Focus mode (Left Key Mode)	AF (Auto Focus) / Macro / Super Macro / Infinity / MF (Manual Focus)					
	Range	Normal	Still mode	Wide	5cm~ infinite		
			Tele	60cm ~ infinite			
		Macro	Movie mode	30cm~infinite			
			Wide	5cm~ 100 Cm			
			Tele	60 cm~ 200 Cm			
Super Macro	5 cm (wide 1)						
Aperture	Wide: F 3.2 ; Tele: F 5.8						
LCD Monitor	Display	2.7" LCD Pannel					
	Number of dots	960 (W) x 240 (H)=230K					
	Dot arrangement	R, G, B delta					
Water proof	10M (IPX8)						
Drop test	1.5M						
Dust proof	IP5X						
DSP	iCatch						
Microphone	Built-In						
Sound Feedback	Speaker						
Assist Lamp	Yes						
Storage ( on board )	512 Mbit flash Memory (64MB)						
Storage ( real size for mass storage )	25MB						
External Card support	Micro SD(up to 4GB) ; Micro SDHC (up to 32GB); Micro SDXC(up to 64GB) ; UHS -1 speed card						
Flash Strobe	Modes (Right Key Mode)	Auto / Red-eye Reduction / Forced On / Slow Sync / Forced Off					
	Range	Wide	Operating Range 0.5 ~ 2.5m @ ISO Auto				
		Tele	Operating Range 0.5 ~ 1.5m @ ISO Auto				
		Max. ISO800 under Auto mode					
	Guide Number	3.8@ 1m / ISO 100 (Main flash) / Typical					
Recharging Time	Full(4.2V) recharge ≤5s, low(3.7V) recharge ≤6s						
EV Compensation (Up Key Mode)	+2.0EV / +1.7EV / +1.3EV / +1.0EV / +0.7EV / +0.3EV / 0EV / -0.3EV / -0.7EV / -1.0EV / -1.3EV / -1.7EV / -2.0EV				±2EV (1/3EV steps)		
Self-timer (down key)	Off / 10 sec. / 2 sec. / Double / Burst						
AE-L / AF-L	AE-L / AF-L / AE-L & AF-L				Show this function only when use Program mode.		

<b>Power</b>				
Power Supply	Battery	Li-ion battery NP-45		3.7V, 700mAh
Battery Support Life	CIPA 200			
Battery Level	Full ->2/3 of capacity : 65%±15% 2/3 ->1/3 of capacity : 25%±15% 1/3 ->Empty of capacity: 10%±10%			
Battery Status	4 levels : Full / 2/3 / 1/3 / Empty			
RTC	Yes, Charge 2 hrs, Backup 12 hrs			
Power Saving	1min / 3min / 5 min / Off			
LCD Brightness	Auto / Bright / Normal			
<b>Still Function Recording</b>				
Special Scene	Scene Mode	Intelligent Scene / Program / Portrait / Landscape / Underwater / Sunset / Dawn / Backlight / Kids / Night Scene / Fireworks / Snow / Beach / Sports / Party / Candlelight / Night Portrait / Soft Skin / Flowing Water / Food / Love Portrait / Self Portrait / D-lighting / Time Lapse / Panorama / Art Effect / Burst / Speedy Burst / GIF		
	Intelligent Scene	Portrait / Landscape / Macro / Backlight / Backlight Portrait / Night Scene / Night Portrait		
	Time Lapse	30 sec. / 1 min. / 5 min. / 10 min. / 30 min. / 60 min.		
	Art Effect	Stylish / Soft Focus / Light Tone / Vivid / Miniature / Fisheye Lens / Astral / Poster / Impressive Art / B&W / Sepia / Color Accent (Red) / Color Accent (Orange) / Color Accent (Yellow) / Color Accent (Green) / Color Accent (Blue) / Color Accent (Purple)		
Resolution	20M	5152X3864		
	8M	3264X2448		
	5M	2592X1944		
	3M	2048X1536		
	VGA	640X480		
	(3:2)	5152X3435		
	16:9 (14M)	5152X2898		
	16:9 (2M)	1920X1080		
Quality	Super Fine	3x compression rate		
	Fine	7x compression rate		
	Normal	12x compression rate		
White Balance	Auto / Daylight / Cloudy / Tungsten / Fluorescent_1 / Fluorescent_2 / Custom			It's different in Color Temp: Fluorescent_1(high) / Fluorescent_2 (low)
ISO/ASA Sensitivity	Auto / 100 / 200 / 400 / 800 / 1600 / 3200(3M/16:9<2M>/VGA) / 6400( 3M/16:9<2M>/VGA)			
Maximum ISO Auto	200 / 400 / 800			
Metering	Multi / Center / Spot			
Exposure Bracketing	Off / ±0.3 / ±0.7 / ±1.0			
AF Area	Face Tracking / Wide / Center / Tracking AF			
Date Stamp	Date & Time/ Date / Off			
Others	AF Lamp / Digital Zoom / Auto Review / Blink Detection / Grid Line / Stabilizer / GIF (Graphics Interchange Format)			
Image File Format	Still : EXIF 2.3 compatible format ( JPEG compression )			
Shutter Control	Type	Mechanical and Electronic shutter		
	Speed	Auto : 1 ~ 1/2,000 sec. Night : 1 ~ 1/2,000 sec. Fireworks : 4 sec. Candle light: 8 sec.		
language	English / French / Spanish / German / Italian / Russian / Portuguese / Brazil Portuguese / Dutch / Turkish / Polish / Hungarian / Romanian / Czech / Bulgarian / Croatian / Slovak / Slovenian / Greek / Swedish / Norwegian / Finnish / Danish / Arabic / Indonesia / Malay / Thai / Japanese / Korean / S. Chinese / T. Chinese			31 Language
Capture Capacity / internal memory		Super Fine	Fine	Normal
	20M	2	4	6
	8M	6	11	16
	5M	11	17	25
	3M	17	27	33
	VGA	92	104	120
	(3:2)	3	5	7
	16:9 (14M)	3	5	8
	16:9 (2M)	21	30	47
(1:1)	6	10	14	

<b>Video Recording</b>		
Video Resolution	1280x720/ 30fps (HD)	
	640x480/ 30fps (VGA)	
Video Flame Rate	30 fps	
Max. recording time	Only record up to 29 min	
Optical Zoom	Up to 4x during capturing	
Video Format	AVI (MJPEG)	
Others	Prerecord / Wind Cut / PIV	Pre-recording 3 sec. before you push the shutter key PIV : 1 shot under recording ; photo resolution : same as Movie Resolution
<b>Voice Recording</b>		
Voice memo	Voice Memo in Still Image (max. 30 sec.)	
Voice Format	WAV	
<b>Performance</b>		
Power-on Time	< 2.5 sec.	
Release Time Lag : ( Shutter lag)	< 0.15 sec.	
AF Time	< 0.5 sec. (W), < 0.7 sec. (T)	
Click to Click	< 3 sec.	
<b>Playback Mode</b>		
View	Single / 9 & 36 thumbnail pictures / Slide show / Calendar View	
Image Erase	Single / Voice only / Multi / All / Format	
Image Editing	Voice Memo / Filter Effects / Trimming / Resize / Movie Paste / Face Retouch	
Function	Rotate / Digital zoom 1x ~ 12x, scollable / Protect / Print / Copy / Voice & Video playback / Startup image	
<b>Connector / jacks</b>		
USB	8 pin min USB, USB2.0 full speed	
AV out	8 pin min USB, USB2.0 full speed	
System requirement	Mac OS 10.3X ~ 10.8<Mass storage> Windows XP (Service pack 2 or later) ,Win Vista , Win 7 , Win 8	
TV System	NTSC / PAL ( selected by MENU )	
<b>Mechanical</b>		
Dimension ( W x H x T )	107.5 x 66.15 x 50.45 mm	
Weight (w/o battery)	162 without SD Card & Battery	
Others	1/4" Tripod Hole, Wrist Strap Hole	
<b>Regulatory and Reliability</b>		
Operating Temperature	0°C ~40°C	
Operating Humidity	0% ~90%	
EMI / EMC	CE, FCC, BSMI	
Safety	KTL-CB	
<b>Accessories</b>		
	USB cable x 1	
	USB adapter x 1	
	Wrist Strap x 1	
	Li-ion battery x 1	
	Quick Start Guide x 1	6 Language: English / French / Spanish / German / Italian / S. Chines