



AFFIDAVIT OF MINA CHING

1. I am a Records Request Processor at the Internet Archive. I make this declaration of my own personal knowledge.
2. The Internet Archive is a website that provides access to a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public. The Internet Archive has partnered with and receives support from various institutions, including the Library of Congress.
3. The Internet Archive has created a service known as the Wayback Machine. The Wayback Machine makes it possible to browse more than 450 billion pages stored in the Internet Archive's web archive. Visitors to the Wayback Machine can search archives by URL (i.e., a website address). If archived records for a URL are available, the visitor will be presented with a display of available dates. The visitor may select one of those dates, and begin browsing an archived version of the Web. Links on archived files in the Wayback Machine point to other archived files (whether HTML pages or other file types), if any are found for the URL indicated by a given link. For instance, the Wayback Machine is designed such that when a visitor clicks on a hyperlink on an archived page that points to another URL, the visitor will be served the archived file found for the hyperlink's URL with the closest available date to the initial file containing the hyperlink.
4. The archived data made viewable and browseable by the Wayback Machine is obtained by use of web archiving software that automatically stores copies of files available via the Internet, each file preserved as it existed at a particular point in time.
5. The Internet Archive assigns a URL on its site to the archived files in the format `http://web.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL]` aka an "extended URL". Thus, the extended URL `http://web.archive.org/web/19970126045828/http://www.archive.org/` would be the URL for the record of the Internet Archive home page HTML file (`http://www.archive.org/`) archived on January 26, 1997 at 4:58 a.m. and 28 seconds (1997/01/26 at 04:58:28). The date indicated by an extended URL applies to a preserved instance of a file for a given URL, but not necessarily to any other files linked therein. Thus, in the case of a page constituted by a primary HTML file and other separate files (e.g., files with images, audio, multimedia, design elements, or other embedded content) linked within that primary HTML file, the primary HTML file and the other files will each have their own respective extended URLs and may not have been archived on the same dates.





6. Attached hereto as Exhibit A are true and accurate copies of browser screenshots of the Internet Archive's records of the archived files for the URLs and the dates specified in the attached coversheet of each screenshot.
7. Attached hereto as Exhibit B are true and accurate copies of the Internet Archive's records of the archived files for the URLs and the dates specified in the attached coversheet of each file.
8. I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

DATE: 07/11/2025


Mina Ching

Please see attached
All Purpose
Jurat form
for additional
Notary Events



JURAT ATTACHMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF Texas }

COUNTY OF Harris }

The foregoing instrument was subscribed and sworn before me this date of 07/11/2025, by Mina Ching

This notarial act was an online notarization.



(Notary Seal)

Notary's Signature *Lucia Velazquez*

Registration No.: 133662277

Commission Expiration Date: March 23, 2026

Document Notarized using a Live Audio-Video Connection



EXHIBIT A

https://web.archive.org/web/20121225073649/https://www.gsmarena.com/palm_treo_600-622.php



Palm Treo 600



- Read opinions
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GENERAL	2G Network	GSM 850 / 900 / 1800 / 1900
	SIM	Mini-SIM
	Announced	2003, 4Q
BODY	Status	Discontinued
	Dimensions	112 x 60 x 22 mm (4.41 x 2.36 x 0.87 in)
	Weight	168 g (5.93 oz)
DISPLAY	Keyboard	QWERTY
	Type	CSTN resistive touchscreen, 4096 colors
	Size	160 x 160 pixels, 2.5 inches (~91 ppi pixel density)
SOUND	Alert types	Vibration; Downloadable polyphonic ringtones
	Loudspeaker	Yes
	3.5mm jack	No
MEMORY	Card slot	SD/MMC, up to 2GB
	Internal	32 MB
		- 24 MB available
DATA	GPRS	Yes
	EDGE	No
	WLAN	No
CAMERA	Bluetooth	No
	Infrared port	Yes
	USB	Yes, USB HotSynch (cable included)
FEATURES	Primary	VGA, 640x480 pixels
	Video	No
	Secondary	No
BATTERY	OS	Palm OS v5.2.1H
	Chipset	TI OMAP 1510
	CPU	144 MHz ARM925T
	Messaging	SMS, MMS, Email
	Browser	HTML (Blazer)
	Radio	No
	Languages	English, French, German, Italian, Spanish
	GPS	No
	Java	No
	Colors	2 - Silver, Carbon
		- 144 MHz ARM Processor
		- Organizer
		- Advanced calculator
		- Handsfree ear-bud headset included
	Standard battery	Li-Ion
	Stand-by	Up to 240 h
	Talk time	Up to 6 h

Disclaimer: We can not guarantee that the information on this page is 100% correct. Read more

PALM TREO 600 - USER OPINIONS AND REVIEWS

gra

i bought my palm treo 600 with a charger were can buy the charge. i am in zimbabwe

2012-02-21 11:53

faVy

U

Reply

goldy locks

can the treo 600 be updated, such as getting bluetooth and radio etc.

2011-04-12 18:21

ROKx

U

Reply

Gamo sticker

My phone fills in water since than the screen continues blinking and also can vodafonghana help me with their internet configuration on my treo.

2011-02-28 15:05

N7AQ

H

Reply

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Post your opinion

Total user opinions: 184

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LifeDrive[™] mobile manager

Drive your own agenda. You've got tons of songs, videos, photos, office docs, and lots more. But until now, managing it all on the go hasn't been easy. Hey, it's your life. Take it with you.



- LifeDrive
- Accessories

Treo[™] smartphones

More than just talk. With a phone, email¹, organizer and the Web¹ all in a single "fit-in-a-pocket" device, it's never been easier to stay in touch.



- Treo 600
- Treo 650
- Accessories

TUNGSTEN[™] HANDHELDS

Serious productivity. These are powerful tools for business. Create and edit Office documents. Check your email¹. Surf the web¹. Just do more.



- Tungsten E2
- Tungsten T5
- Tungsten C
- Accessories

Zire[™] handhelds

Organize your life. Keep appointments, addresses, and your to-do list right at your fingertips. Not to mention cool stuff like MP3s², photos and video clips².



- Zire 21
- Zire 31
- Zire 72
- Accessories

Choice is good. Now is a good time to choose.

	Zire			Tungsten			LifeDrive	Treo	
	21	31	72	E/E2	T5	C	LifeDrive	600	650
prices are estimated street price in USD	\$99	\$129	\$249	\$199 \$249	\$349	\$399	\$499	low as \$299 ³	low as \$299 ³
basics									
organizer		plus	plus	plus	plus		plus		plus
office docs									
wireless									
phone									
email ¹									
web ¹									
messaging ¹									
		SMS MMS	SMS MMS	SMS MMS	SMS MMS	SMS MMS	SMS MMS	SMS MMS	SMS MMS
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play music ²									
play video ²									
view photos									
voice memo									
camera									
capture digital video ²									
other									
screen	color screen	hi-res color	hi-res color	rotate hi-res	hi-res color	rotate hi-res	color screen	color screen	hi-res color

special			screen	screen	color screen  160MB drive ⁴	screen  built-in keybrd	color screen  4GB hard drive ⁵		built-in keybrd	screen  built-in keybrd
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- 1 Connecting to the Internet for email and web access via Bluetooth® with a Zire 72, Tungsten E2, Tungsten T5 handheld or a LifeDrive mobile manager requires a compatible Bluetooth-enabled mobile phone and ISP, both sold separately. Connecting via Wi-Fi with a LifeDrive mobile manager or a Tungsten C handheld requires proximity to a Wi-Fi hotspot and may also require additional fees, service plans and/or equipment. Connecting via a mobile network with a Treo 600 or Treo 650 smartphone requires data services from a mobile service provider and service activation. Additional restrictions may apply. Wireless coverage may not be available in all areas.
- 2 MP3 playback, not available on the Zire 21, requires an expansion card (sold separately) on all models except the LifeDrive mobile manager and the Tungsten T5 handheld. Video playback requires an expansion card (sold separately) on all models except the LifeDrive mobile manager, the Tungsten C or Tungsten T5 handhelds, and the Treo 650 smartphone. QuickTime (free Internet download available) is also required for desktop video conversion.
- 3 Price and offers vary by mobile service provider and require new service activation. Additional restrictions may apply. Price shown may be after service credit or mail-in rebate.
- 4 Host computer must support standard USB removable drives for drive mode functionality.
- 5 3.85GB is user accessible.
- 6 Bluetooth® wireless technology and SMS application available on the Tungsten E2 handheld only, not included with the Tungsten E.



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Palm Treo 650 GSM/GPRS Review

Posted on 22-Dec-2005 22:23 by [Lorann McCallum](#) | Filed under: [Reviews](#) : [Palm](#)



I had been looking forward to getting my hands on a Palm Treo 650 for a long time, and when one was offered, I leapt at the opportunity to indulge.

The Palm Treo 650 smartphone is the younger sibling to the Palm Treo 600, and comes in two flavours: the GSM model which is quad band supporting GPRS data services, and the CDMA version supporting digital dual band (800/1900 Mhz) with 1xRTT for data. It is both a mobile phone and a fully featured PDA running Palm OS 5.4.5.

What's on the outer?

First up, of course I needed to put my SIM card in, and I found it immediately without having to remove the battery. Tremendously user friendly! While I was there, I also spotted the MMC/SD/SDIO expansion slot – (you'll need this, so don't forget where it is), the infrared port and the ringer switch between sound and vibrate. Simple things impress and this certainly did.

Its check-in weight was 178gms and packed in its bags was a CD full of third-party software for the Mac and PC, USB hot sync cable, power, earpiece and most impressively several international plugs. While it felt solid and ergonomic in my hand, I was less comfortable with it in my jeans pocket due to its body mass index. It's dressed lightly but smartly in a dark gray all-in-one with chrome trimmings, however it really needs a jacket for protection and I was disappointed not to find one tucked away. A quick shop for accessories, and I found a functional jacket for the 650 was available. Highly recommend the purchase to ensure your 650 is kept in good shape and the screen protected.

The screen size was very generous with resolution now a 16-bit, 320x320 TFT backlit display, a vast improvement over the 600's 160x160 LCD.

The 5-way navigation pad was easy to use and responsive to touch. The green and red call and hang up buttons were blindly locatable. The home and menu keys were directly above the dedicated Calendar and E-Mail buttons and everything was where it should be.

The Palm Treo 650 has a lovely QWERTY thumb keyboard which lights up like a Christmas tree when a key is pressed. All the alternate keys are easily accessible through the ALT key, two SHIFT keys and a blue FN key. My initial impression was there is no way I can thumb those keys and string words together that make sense. I was pleasantly surprised at how deft I became and in a very short time too, although my thumbs ached after a while in what felt like a fairly unnatural thumb position. The Palm Treo 650 keyboard is slightly more ergonomic than the Palm Treo 600 but I'd like to see more improvements in the key placement particularly to accommodate users with big thumbs.

Although I started off using the stylus quite a lot, as I grew more comfortable with the Treo, it just seemed natural to fat-finger away on the keyboard and screen and the inside view...

I was quietly agog that after installing applications, and then synchronizing some files from the Documents to Go application, I literally had no room to move. My pixels and RAM were sagging. Go dig out your expansion cards and pop them into that slot we mentioned earlier as the 650 only has 23MB of available storage. Thankfully it is flash ROM, not RAM so you don't lose data if the device is powerless.

The Blazer web browser was speedy and pages loaded fast even on a GPRS network. I left mine in optimized mode which meant the browser resized everything for my screen and aligned it in one column, so I only needed to use the 5-key navigation pad to move a page down at a time. You can also disable images, auto complete, JavaScript and cookies to streamline further. On devices like the i-Mate SP series browsing is for the foolhardy, on the Palm Treo 650 it's for everyone.

Messaging is one of the Palm Treo 650's strengths and Versa Mail does indeed live up to its name. Microsoft has licensed the Exchange Active Sync protocol to Palm One which has enabled them to incorporate OTA synchronization to Microsoft Exchange servers without the need to use third-party software. Versa Mail supports up to 8 e-mail accounts at the same time using an array of standards including POP, IMAP, Exchange Active Sync etc and I loved the % progress when sending messages.

Other software included a very smart Calculator that had all sorts of advanced functionality including a statistics calculator, weight and temperature conversions, finance + much more. Sadly I found it to be the most unstable feature of the 650. On most of the calculator modes I could repeatedly reset the device simply by typing in some numbers and choosing a function key.

The camera was a standard VGA 640x480. With 2x zoom, pictures were surprisingly crisp and clear, and the video likewise was quite smooth. Although most devices these days have at least 1.3mb cameras, I can only surmise the Treo 650 had 640x480 due to technical issues or Palm scrimping on its storage space.

I was disappointed to find the Palm Treo 650 doesn't do handwritten text entries. My first instinct with the memo application was to grab the stylus and start writing, yet this was a no-go. I went shopping once again and found a 3rd party application which would support my undecipherable writing.

Connectivity

No Wi-Fi! 'elp!...With so many Smart phones and PDAs available now suppliers need to focus on delivering devices that offer a positive differentiating factor for the consumer. While this isn't such a big deal for smart phones, the 650 is a fully fledged PDA as well as phone. Internet surfing with the Blazer web browser is very usable, and it would be terrific to have the option of using Wi-Fi over and above GPRS or CDMA 1xRTT mobile data networks.

It does however, have Bluetooth for your wireless headset and synchronization with your desktop.

The Phone

I was surprised to learn from the various people I phoned, they could hear me a lot more clearly when I was on speaker phone than not. Perhaps I had too much noise around me with the microphone at the back, nonetheless, I could hear them perfectly and I wouldn't want to change that.

Finger access to phone numbers, contacts, speaker phone, hold etc was a breeze.

The Eveready battery

I received the Palm Treo 650 fully laden with charge and for a few days after its arrival I just idly admired it from afar, using it as a basic phone and a lazy method to check e-mail from the couch. After a week it was almost redlining so I charged it up again and then spent a pleasant evening surfing, reliving my childhood playing Space Invaders, getting to grips with the PIM functionality and synchronizing with cable and Bluetooth. The following morning rigor mortis had well and truly set in. Turning off Bluetooth, limiting

my Internet browsing and with moderate use, I was able to healthily conserve power for close to 5 days before recharging.

One of the nice features of the Palm Treo 650 is that the battery is user replaceable. Just throw a spare battery in your bag and you'll be set, although you would have to be using the device pretty heavily on a 12 hour flight to be reaching into the overhead locker for that spare.

Summary

The Smart phone term given to the Palm Treo 650 is unjust. Instinctively, it's the PDA functionality I have reviewed rather than the phone because this device looks and feels more like a PDA first and a phone second. It portrays an air of confidence that says "let me take care of business for you".

If you are looking for good, solid PDA functionality with great PIM features in a device that also supports voice, the Treo 650 will deliver. No more, no less.

If your primary use is voice, with the occasional e-mail I would be inclined to go with something a little lighter and easier on the pocket.

Pros

- Healthy and long living battery
- Good solid design
- Great e-mail connectivity and versatility.

Cons

- No graffiti data entry
- No built-in Wi-Fi
- Lack of storage
- Some system instability

Check prices on-line: <http://geekzone.pricerabber.com/se...>



Comments



Comment posted by [Janisg1](#) on 14-Jan-2006 12:17

I pretty much like my 650, but you're right, size does matter if you're just looking for a phone. Soon after I got my first PDA I wished for one that would also function as a phone. This is definitely it. I like the PC interface for Pocket PC better than Palm...the click and drag is more comfortable for me than Documents To Go, but I must say that I haven't used Doc To Go much. My biggest complaint is VersaMail. It has a tendency to "crap out" on me. It'll auto-sync mail for a few days, a week or so at the most, then all of a sudden, it stops auto-sync'ing. All I've figured out to do is delete the account on my 650 and create a new one. It'll work for awhile then I have to create a new account all over again. I'm on VersaMail v3.0. Have you run into this? Also...after having PocketPC, I got hooked on the handwriting translation function and miss it. What software are you using? I've had to have it replaced already in less 6 months of use. :(But, all in all, it's a pretty good product. Janis



Comment posted by [Paddy](#) on 15-Jun-2006 08:24

I had the same problem with the auto sync function. It worked for probably a month and then just stopped working. It will still retrieve the e-mail manually but not automatically at my scheduled intervals. Does anyone know of a solution besides deleting the mail account and recreating it?

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Treo 650

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POWERED

Capture photos and videos with the built-in digital camera.

Snap a photo:

- **Aim** - use the smartphone screen to frame the photo.
- **Shoot** - press center.
- **Save** - if you like it, select the SAVE button.

Or record a video:

- **Aim** - use the smartphone screen to frame the video.
- **Record** - press center.
- **Stop** - press center again to stop recording.
- **Save** - if you like it, select the SAVE button.

Share a photo or video with picture messaging:

- **Select** - choose the photo or video you want to send in a picture message.
- **Send** - select SEND, write a quick note, address it and select SEND again.

Customize settings for your photo/video shoot:

- **Digital Zoom** - enable digital zoom up to 2X.
- **Effects** - select the color palette for the current photo or video.
- **Resolution**¹ - as high as 640x480 for photos or 352x288 for videos.
- **Date Stamp** - mark photos with the date.
- **Review Before Saving** - approve each photo and video before saving.
- **Microphone** - record sound with your videos.

Organize and share photo/video albums with **Media** software.

Media (Smartphone application)

Organize & Edit - place photos and videos into albums on the Treo 650 or on expansion cards (sold separately). Zoom into your photos, add text to images, create slideshows and more.

Share - send photos or videos to others by infrared "beaming", via built-in **Bluetooth®** wireless technology to other Bluetooth-enabled devices, an **expansion card** (sold separately), photo messaging, or via email.

Media (PC desktop application)

Organize & Edit - view and manage the photos and videos² you shoot (Windows only). Use Photo Editor to view, crop, rotate and enhance your photos. Use Video Editor to trim video clips. Organize everything into albums or slideshows and then transfer images back to the Treo 650. [View screenshot.](#)

Media & Macintosh

Transfer photos and videos to your Mac with a HotSync® operation. Open photos in iPhoto, or other image-editing software, to organize and edit. Use the included **Send to Device** droplet for easy drag-and-drop transfer of photos and videos³ from a Mac to the Treo 650 during the next HotSync operation. Note: Video playback is not available on the Mac desktop.

Listen to MP3 music and RealAudio files with **RealPlayer®** software.

RealPlayer (Smartphone application)

Transfer your personal music collection to an expansion card (sold separately) to play on the Treo 650 smartphone.

Organize your songs by creating and editing playlists right on your smartphone.

Play MP3s and RealAudio files on your smartphone while you're viewing your calendar or editing a document.

Listen via the built-in speaker or stereo headphones (sold separately).

View a full display of current tracks playing - including song name, album and artist.

Conserve battery power with auto-dimming capabilities.

RealPlayer (PC desktop application)

Use RealPlayer on your computer desktop (Windows only) to transfer songs from a CD to your PC, and to play and manage your music on your PC. To transfer your MP3 files from your PC to an expansion card in the Treo 650, use RealPlayer on your desktop.

RealPlayer & Macintosh

Use iTunes, included with Mac OS X, to transfer music from a CD to your Mac, and to play and manage your music on your Mac. To transfer your MP3 files from your Mac to the Treo 650, use the included **Send to Device** droplet.

¹ Offers vary by mobile service provider and require new service activation. Additional restrictions may apply. Price shown may be after service credit or mail-in rebate. For more details, see the special offers above.

² Windows Media Player 9 and DirectX is required for video encoding. Internet access may be required.

³ The camera takes 16-bit color pictures that are at a maximum VGA resolution of 640x480 pixels (0.3 megapixels), or 320x240 pixels in QVGA resolution. Videos are 320x240 in QVGA resolution or 176x144 in QCIF resolution for CDMA smartphones and 352x288 or 176x144 for GSM smartphones.

⁴ May require conversion to proper format for playback on the Treo 650 smartphone.

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Treo 700wx Review

by: Ryan Kairer
October 24, 2006

The Palm Treo 700w/700wx is the first Treo smartphone to use Microsoft's Windows Mobile operating system. Nine months after debuting on Verizon, the 700wx is the first to become available on another carrier with one key additional benefit, double the operating memory. Palm's Treo 700w series aims to bring the Palm experience to Windows Mobile. It does so by combining the Pocket PC platform with a number of Palm smartphone innovations and broadband like data speeds.

Design

The 700wx is colored in the standard treo dark grey and silver color scheme. The 700w is distinguished by a slightly lighter grey shade on its casing. The body is a smooth hard plastic. The top of the device contains the antenna, memory expansion slot, IR window, the famous silencer switch and the stylus silo. The silencer is a very convenient switch that places the phone in silent mode and mutes the ringer and system sounds. On top front of the device above the screen are the LED and phone earpiece. On the Sprint version the LED is only used to indicate battery and charging status, it does not blink when connected or light up when you have new notifications. The Left side has a two small volume buttons and a side button. The backside contains the camera lens and portrait mirror, rear speaker grill and the removable battery cover.

Below the screen are the two soft keys, followed by the 5-way navigator and various shortcut buttons. In addition to the two soft keys, the Start menu and OK buttons help you navigate the device one handed. The green and red phone buttons initiate and end calls, while the red button also does double duty as the power and lock control. Most of the large buttons can be remapped, and the small button on the side below the volume keys can be customized as well, by default it launches the Media Player. In addition, you can setup additional button shortcuts by pressing the blue function key prior to the button.

The keyboard has square thumb keys in a smile pattern arrangement. The Treo keyboard can be very easy to use once you're comfortable with it and you might surprise yourself with how easy it is to type on. The backlighting on the keyboard and buttons is bright and consistent and the keys have a nice white illumination.



Size wise the Treo 700wx has physical dimensions of 4.4" x 2.3" x 0.9" inches (111 mm x 58 mm x 22.5 mm) and weights in at 6.4 ounces (180 g). It pretty much shares the same dimensions and weight as the Treo 650 and 700w.

At three years old now, the current Treo design is beginning to show its age, mainly because of its bulk. The size is mainly due to its large battery capacity and other more powerful features such as the touchscreen. Slimmer smartphones on the market now have to omit functionality and compromise on certain features in order to reach their slim profiles and as a result often fall short on battery life. The 750v showed that the next Treo incarnation would only be marginally slimmer, so it doesn't look like Palm is going to put the Treo on a diet any time soon.

Treo 700 series

I'm sure a lot of people reading this review will be wondering what the main differences are between the Treo 700wx, 700w and 700p. The only difference from the 700w is the wx's doubled operating memory capacity and casing color. The Treo 700p runs a different operating system, the Palm OS. The 700p also has a higher resolution 320 x 320 pixel screen.

Hardware

The Treo 700wx is powered by a 312 MHz PXA270 Intel XScale processor. It has a total of 128 MB of memory, of which you can use 62 MB to store programs and data internally. Windows Mobile also uses a separate program memory space, which is similar to how RAM works on a PC. The 700wx features twice the available program memory as the 700w, with a total of 48 MB free after a reset vs. the 700w's 14MB. This makes a huge difference on Windows Mobile as programs have much more room to operate, which makes for an overall more responsive experience.

Programs aren't actually closed when you click on the X in the top right corner, though there are many third party apps that will do this for you. Rather running applications are "minimized" and will still run in the background taking up resources until the system see fit to close them. Due to the multitasking nature of Windows Mobile, you would notice a slowdown and lag on the 700w after browsing a few web pages, checking email and then trying to use an Office app. The situation could cause the device to become sluggish or even freeze up when you run short on space. So the additional memory does a lot to help performance and stability.



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- RE: This is the way the PalmOS world ends... -HyperScheduler
- RE: This is the way the PalmOS world ends... -hkkilife
- RE: This is the way the PalmOS world ends... -HyperScheduler
- RE: This is the way the PalmOS world ends... -linds
- RE: This is the way the PalmOS world ends... -HyperScheduler
- RE: This is the way the PalmOS world ends... -mijail
- RE: Re: last one out please turn out the lights... -linds

Latest Reviews

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- HP TouchPad Review
- HP Veer 4G Review
- HP Veer 4G Initial Impressions
- 2TwtMe for Palm OS Review

Display

The Treo 700wx has a 2" x 2" inch square touchscreen display. It is a 240 x 240 pixel TFT screen that supports 65,000 colors. The display is plenty bright, even at the middle level, and holds up well outdoors and in direct sunlight. Being a long time Palm OS users who is used to the larger 320 x 320 display, I definitely found the screen to be a downgrade. I also think that Microsoft wastes a large amount of screen real estate. It's really more like a 240 x 200 display with the ever present title bar and huge softkey space across the bottom of the screen.



There are some aspects to Windows Mobile that can help to make up for the smaller size. There is a system wide font size, and if you have good eyesight, you can set it to its smallest size to fit a lot more text on the screen. You can also enable ClearType, which does nothing for the size, but aliases the text so it looks a lot smoother and can be easier on the eyes for extended reading. Internet Explorer also has a decent full screen mode, which will let you browse without all the oversized toolbars and softkeys. IE also has a 5 zoom levels from largest to smallest, which allows you to adjust the size of text when surfing.

Most Windows Mobile apps will work ok with the smaller screen size. For years the Pocket PC default size has been 240 x 320. Many games, especially older ones, assume this size and will not run on the smaller screen. Fortunately, many popular apps and games have been updated to work with the new screen sizes, though I had a lot of trouble with finding compatible Pocket PC games.

Phone

The Treo 700wx phone uses CDMA wireless technology (850/1900MHz digital) and supports EvDO high-speed wireless data. EvDO allows for data speeds around 10x faster than previous 1xRTT rates and is backwards compatible. The carriers claim that EvDO speeds average around 400-600k, though you are more likely to see around 250-500k. In my area I get about 2-3 bars of coverage, and generally saw speeds of around 300-400k using mobile speed tests. EvDO also allows you to receive calls while the Internet connection is active, on older 1x CDMA devices the phone would not accept calls when actively using the data connection.

You can use the Treo 700wx as a wireless modem for your laptop or desktop computer. Not all carriers may support this feature, and some might even require you to purchase an additional DUN or wireless modem data plan. Sprint does charge extra for this feature and only supports Dial-Up Networking with Windows XP/2000. Fortunately, the included USB cable will trickle charge the Treo when in use, so you don't have to worry about draining the battery when using it in DUN mode.

Memory Expansion

The 700wx includes a standard SD slot for memory expansion. It is FAT32 compatible and will work with the latest 2 and 4 GB SD memory cards, though not the newer SDHC cards. The slot is SDIO compatible and unlike the 650/700p, does support Wi-Fi SD cards. The drivers for Palm's own WiFi SD card are even built in.

Bluetooth

The 700wx also has integrated Bluetooth wireless technology. This allows for accessories such as wireless Bluetooth headsets, GPS navigation kits and using the 700w as a wireless modem for your laptop. The v1.2 spec allows for faster device connections and adds the ability to use Bluetooth devices concurrently. For instance, you could keep a headset connected at the same time you have your Bluetooth GPS running. You can also sync with your PC over Bluetooth with Activesync. Unfortunately, Bluetooth A2DP audio is not supported and you still need a 3.5" mm stereo adapter if you want to use regular music headphones.

Camera

The 700wx includes a 1.3 megapixel digital camera on the top back side of the device. It can take photos at a max resolution of 1280 x 1024 and has a 2x digital zoom. It can also record video clips with audio at a 352 x 288 resolution. A camera-less version is also available from Sprint. The camera quality is pretty standard for a phone-cam. Outdoor scenes and good natural lighting conditions will give you the best results. Indoor shots also require a lot of light and can get a little blurry and grainy at times. Low-light and nighttime shots are generally very poor and dark. You can manually adjust the brightness settings by pushing right or left on the d-pad, and the program will let you save to pics internally or to an SD card. Here are a few unedited example pics shot with the 700wx (click for fullsize):



Battery

The battery is a 1800 mAh Li-ion rechargeable battery that can be removed via the cover on the back. The cover also hides the reset hole, which can be activated with the stylus tip. Additional spare treo batteries are available for \$24.95 USD each. A 2400 mAh extended life battery is available for \$39.95 that gives you approximately 33% more life.

The official battery lifetime is rated at 5 hours talk and 300 hours standby. During times of heavy web and Internet usage with a number of phone calls throughout the day and with Bluetooth on, I am able to get roughly a full day and a half of usage on a single charge. With more casual use I could go for roughly 2 and half days per charge. EvDO use seems much more power hungry and with a lot of net usage I saw my time between charges drop. Bluetooth can also be a big drain so be sure to keep it off when not in use. Overall, I felt that battery life was a bit under par when compared to the Treo 650. I also felt I got better battery life out of the 700p than with the 700w, but battery life varies greatly with how you personally use the device and wireless features.

Software

The Palm Treo 700wx runs Microsoft's Windows Mobile 5 OS Pocket PC Edition. The on-device version number is 5.1.195 (Build 14929.2.2.1). Windows Mobile has come a long way in its lifetime and this latest version is the easiest to use to date. Palm took it upon themselves to add their own touches to Windows Mobile, which add a number of improvements that make for a much better smartphone experience.

Palm experience on Windows Mobile

Most of the Palm enhancements can be found on the Today Screen, which is the main starting point on Windows Mobile. The today screen features a number of plug-ins that will show the date and time, upcoming appointments, email and message counts. Palm added a great deal of functionality to this area with their own plug-ins. Palm brought over their innovative contact dialing system, so you can find and sort large contact lists and narrow down to a single

name and number just by typing a few letters of the name. My favorite feature is the ability to search the web right from the today screen. A built in search bar takes your queries right to Google's mobile optimized search results. There are also a vast number of third party plugins that can add some cool features such as displaying the weather forecast, and live rss feeds on your today screen.

There are also some nice call management features. When calling your voicemail system, there are VCR-like icons for saving, delete, rewind, fast forward, etc so you don't have to memorize all the numerical controls. The Sprint version adds small icons for mute and activating the speakerphone when on a call, something the 700w lacks and has buried in the menu. Other nice touches include a photo dialing shortcuts, and the ability to ignore incoming calls via SMS by sending them a quick text message when the call comes in.



One thing I find frustrating is that you can't launch programs from the today screen without installing a third party plugin. Yes, you can jump to the Calendar by clicking on the appointments bar (if enabled) and the same with messaging, but you can't setup your own custom app shortcuts. You have to stick to the start menu and programs list in order to launch and access most programs.

The Treo does pretty well with one handed navigation, although there are some shortcomings. You definitely won't be using the stylus as often as you would on a PDA, as there are tons of keyboard and soft-key shortcuts to help you out. But compared to the Palm OS, one-handed navigation is just not as easy with Windows Mobile. There are lots of menu's and pull downs that you can't access with the d-pad and more often than not forms and input boxes would not respond to the navigator either. There were lots of cases where I had to poke the screen with my finger or pull out the stylus in order to move the cursor or select something from a pull down menu. The 700wx simply fails to come close to the Palm OS Treo's level of gracefulness in one handed operation.

The 700wx includes the usual assortment of the standard Windows Mobile productivity and entertainment software including Word, Excel and Powerpoint Mobile, Bubble Breaker, Calculator, Cubis, File Explorer, Goodlink, Internet Explorer Mobile, Messaging, Microsoft Outlook Mobile, Phone, Pictures and Video, Picisel PDF Viewer, Pocket MSN, Quick Tour, Search, Solitaire, Sounds Manager, a Terminal Services Client, Voice Command and Windows Media Player 10 Mobile. There is also a vast amount of third party software you can download and install, the [PalmInfocenter store](#) carries a large amount of Treo compatible [Windows Mobile software](#).



Push Email

A major feature of the 700's email capabilities is the built in support for Microsoft's push email technology. This solution requires Exchange Server 2003 with Service Pack 2 and gives users automatic wireless updates of their email, calendar items, contacts and tasks. The Sprint 700wx also includes a link to download Good Mobile Messaging. Good's software also delivers real-time access to push-based email, calendar items, contacts, notes and tasks. It also supports Good Mobile Defense for robust security and fleet management, as well as Good Mobile Intranet, giving users access to web-enabled enterprise systems, including sales force automation (SFA), customer relationship management (CRM) and corporate intranets. The built in messaging app also handles POP3 and IMAP accounts such as Hotmail, Yahoo!, AOL, Gmail and other providers.

ActiveSync v4.2 is the main apparatus for syncing to a computer and installing programs. A word of advice... make sure you install ActiveSync before connecting the Treo to your computer or you're in for a world of pain getting the device setup. Once ActiveSync is installed it runs in the background and syncs whenever you connect to your computer. You can also setup a wireless sync over Bluetooth. Microsoft also includes a full working copy of Outlook in the package, for those without [Microsoft Office](#). If you're a Mac user, you will have to purchase and rely on Mark/Space's Missing Sync for Windows Mobile (\$39.95) for your syncing needs.

Conclusion

Personally, I'll be sticking with my Palm OS Treo as I find that the Treo 700p and 650 are just much more easier to operate. Even with some of the Treo's features ported over, Windows Mobile still can't match the one handed abilities and the simple elegance of the Palm PIM programs and general intuitiveness found in many Palm OS applications.

That said, the Treo 700wx is a very powerful smartphone. I have to say its the best Pocket PC device that I've ever used to date. Windows Mobile fans will find a lot to like with the Treo. Palm's customizations vastly improve the phone features and bring some cool and add some very useful functionality to Windows Mobile. The combination of a multi-tasking OS and a high speed data connection really let you tap into the power of mobile computing.

Article Comments (26 comments)

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[Gekko](#)



Great, in-depth review

[Jimmie Geddes](#)



Great, in-depth review Ryan! Palm has done an amazing job putting "Palm's ease of use on Windows Mobile." It's by far the best Windows Mobile device I've used. It's nice being able to do more with my Treo (multitasking, wifi, etc.). I've kept my Treo 700p, but my 700wx is my favorite Treo to date. Great review.

RE: Great, in-depth review

[Gekko](#)



Jimmie! Say it isn't so, Jimmie!

RE: Great, in-depth review

[Jimmie Geddes](#)



Gekko it is so:) Don't get me wrong I love my 700p, I still find Chatter to be the best push email program and wish it would get ported to WM. I also love the Palm OS, I feel like I grew up with it, but it's kinda stopped growing. It's an awesome device. I only kept it (I don't need 2 phones) because Sprint let me add the 700wx as a second line and somehow I talked them into having both phones for \$70 a month with all the same services:). EV-DO is much faster on my 700wx than my 700p. For instance my 700wx averages speeds of 450-750 kbps, sometimes it's well over 750. One day I was shocked it was 1096kbps. My 700p is between 250-400kbps.

Being able to surf the web, while writing an email, also sending out a text message, listening to XM radio, update my site, use StyleTap to run some of my favorite Palm OS apps, all at the same time with no slow downs is VERY nice:) I can also stick in my sd wifi card and get even faster speeds:)

Palm has added their special sauce to the 700wx and it shows. When I use my 700p and use blazer, then have to decide if I want to close blazer to open up chatter and send out a quick email, or text a friend, I forget that once I open chatter, or SMS, I've lost my place in Blazer (the 700wx has spoiled me). The 700wx lets me do so much more than I thought possible with a Treo, I'm still adjusting to Windows Mobile. I agree with Ryan Palm still has the best PIM apps. I find StyleTap to be a great app for Palm OS users who switch to a Windows Mobile Treo, it lets you still run some of your favorite Palm OS apps. I use Agendus, Directory Assistant (even though there is a port for WM), AOL for Palm OS (I connect fine through StyleTap), Palm OS To Do list which I copied over to my 700wx from a T2 (700p tasks wouldn't work) using Filez:)

This is in no way WM is better than Palm OS, both have their strong points, and their weaknesses. You need to choose what device is best for you. As a long time proud Palm fan boy I am not embarrassed to say that I've moved to the dark side, and it's pretty bright over here:) I also feel lucky that I can also keep my 700p, I am getting the best of both worlds.

If you're in the market for a Windows Mobile smartphone look no further than the 700wx, awesome smart device!

[Jimmie Geddes](#)
<http://www.gadgetsandthegeek.net>

RE: Great, in-depth review

[Gekko](#)



>I forget that once I open chatter, or SMS, I've lost my place in Blazer

I hate this!

Also - Thanks for your comments. Very interesting.


[Gekko](#)



Ready to Switch

[Gekko](#)



I like all of this power and functionality right out of the box: Push Email, Word, Excel, Powerpoint Mobile, Internet Explorer Mobile, Microsoft Outlook Mobile, Pictures and Video, Pictel PDF Viewer, Pocket MSN, Search, Terminal Services Client, Voice Command, Windows Media Player 10 Mobile.

I'm tired of that rickety FrankenGarnet and am ready to switch.

RE: Ready to Switch

[Jimmie Geddes](#)



I used Voice Command for the first time tonight, it's so cool just being able to say "call so and so" and it does. Or "what's my next appointment" and it tells you. I hadn't realized this was built in, it's great for driving.

[Jimmie Geddes](#)
<http://www.gadgetsandthegeek.net>

RE: Ready to Switch

[Kudzu62](#)



Gekko, you are SO getting paid to say this stuff.

From The Great White North
K60RUS8

RE: Ready to Switch

freakout @ 10/25/2006 5:04:47 AM #

You get most of the above out of the box with a PalmOS Treo too. While I too get frustrated with Garnet's shortcomings, the ease-of-use PalmOS affords make it a joy just to fiddle with my Treo. I don't get that joy out of WinMob.

Power's great, but user-friendliness will always (deservedly) remain supreme.

Tim
I apologize for any and all errors that appear in my posts. You may email them on again.
Treo 770 -> Treo 650

RE: Ready to Switch

Gekko @ 10/25/2006 9:36:25 AM #

>Gekko, you are SO getting paid to say this stuff.

yes, a penny a post. I'm up to 5 cents, you crazy canuck!

RE: Ready to Switch

tarahelias @ 10/25/2007 11:21:58 PM #

Hi...

I just bought a 700wx, I was disappointed that it didn't have voice reco. But you say "I used Voice Command for the first time tonight, it's so cool just being able to say "call so and so" and it does. Or "what's my next appointment" and it tells you. I hadn't realized this was built in, it's great for driving". I find the Voice Command in the User's Guide for shortcutting menu items... but not for calling so -and- so. How do I do this (or find the way to do it).
THANK YOU. This will SO Help my driving (if a woman's driving can be helped).
--T

Hi...
I just bought a 700wx to replace a separate PDA. I read the 700wx review comments. Nothing in there I saw that you got the 700wx to respond to "CALL" as a "sumo" and that function... but REALLY want to be car driving. THANKS YOU... I read the user guide (jargon) but didn't find it in there (it talks about voice commands for programming) I need to call people!
THANKS.
Tara

RE: Ready to Switch

lakegasket @ 10/22/2006 4:56:10 PM #

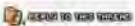
To activate this feature (and all the other voice command features), just turn the sound on and press the small button under the volume buttons on the left side of the phone (antenna side).

After you press the small button you will hear a sound and a microphone icon will appear at the top of the screen to the right of where it says start.

Just speak into the phone and say "HELP"...a female voice will speak to you and explain your options.

After you get used to the system and how it works, you will no longer need to say "Help"...you will just ask directly for what you want.

I hope this is helpful !



So...like...uh...is it due to HARDWARE or SOFTWARE!?

SeldomVisitor @ 10/25/2006 11:18:11 AM #

== "...The 700wx features twice the available program memory as the
== 700w, with a total of 48 MB free after a reset vs. the 700w's
== 14MB..."

Inquiring minds wanna know if PALM "popped in another chip" or simply castrated the software they had to get the extra space.

Anyone know YET?

RE: So...like...uh...is it due to HARDWARE or SOFTWARE!?

hikilife @ 10/25/2006 11:18:49 AM #

Remember my news item from last week about the company that is trying to perform memory upgrades for 700w/wx/p? They actually had success in putting a larger chip into the 700w but thus far cannot get WinMob to recognize it. So obviously an OS issue.

So I'm ASSuming Palm went with a larger chip. Remember the TC video interview with the Treo 680's product manager...he spoke of the limited availability of <64mb memory modules these days in mass quantities. So Palm has likely already discontinued the 700w and is preparing to release it in Q1 '07 on Verizon...OR they will skip the wx entirely and go with a CDMA 750v (v for Verizon) in '07.

Pic1: 600 -> Pic2: 500 -> PalmPilot Pro -> file -> \x\com566 -> TTT -> TTT2 -> TTT3 -> TTT4 -> TTT5 -> TX -> Treo 700P

RE: So...like...uh...is it due to HARDWARE or SOFTWARE!?

nato21 @ 10/25/2006 1:27:58 PM #

"So obviously an OS issue."

Not really. PocketPCTechs has been upgrading PPC's memories for years. It can only be a hardware issue.

(yay)

RE: So...like...uh...is it due to HARDWARE or SOFTWARE!?

newbuyer @ 10/26/2006 12:25:18 AM #

I just purchased a Treo 700W from Verizon and am just now learning of all its features. I haven't challenged its processor/RAM memory yet with too many pics, docs, etc., however, I did review the screen shots featured in the above write up showing the Verizon storage vs. Sprint's. My Verizon 700W was not reset, but as is the Storage on the left column reads: Total 62.94 MB; In Use 1.91 MB; Free: 61.03 MB, so I'm a little confused why the available memory in mine is so much more than the screenshop shown in the article...?

Any comments on this...so far, I haven't had any processing speed problems...but I'm not subscribing to internet service yet either...?

smart (h) suggest

RE: So...like...uh...is it due to HARDWARE or SOFTWARE!?

newbuyer @ 10/26/2008 12:48:49 AM #

In follow up to above comment, I just looked a chart comparing the storage of the Treo 700W and 700WX, and it shows the same amount of available memory, so I guess I'm not understanding the issues regarding storage raised by the featured article...see url: <http://www.palm.com/us/products/compare/#footnotes>

smart (h) suggest

RE: So...like...uh...is it due to HARDWARE or SOFTWARE!?

AdamaDBrown @ 10/28/2008 1:43:08 AM #

It's not storage, it's RAM. The 700w and 700wx both have identical amounts of storage memory, but the RAM (used for active programs) is 32 MB on the 700w versus 64 MB on the 700wx.

 **RE: So...like...uh...is it due to HARDWARE or SOFTWARE!?**

what are the main differences between the 700p and the 700wx?

blog_mago @ 1/30/2007 12:24:30 AM #

Im a very busy and disorganized student and I want to purchase a treo in the hope of becoming more resonisable with my schedual, schoolwork, and all around organizing my day. I know they are similar but i was just wanted to know which would be more useful for a student.

RE: what are the main differences between the 700p and the 700wx?

freakout @ 1/30/2007 2:05:10 AM #

700p would be easier to learn and use, but going by a *lot* of user accounts posted on the web, it has stability and reception issues. If you want a PalmOS based Treo and don't need 3G the 680 is probably a better choice. Otherwise, go 700wx. Or 750.

 **RE: what are the main differences between the 700p and the 700wx?**

Thinking about buying a 700wx.

EJE @ 2/22/2007 1:41:08 PM #

I am thinking about buying a 700wx through my Alltel plan. I have heard that there has been a question with reception. Is this true? What are some of the most have software that should be added or is what comes "in the box" where I should start. I am looking at managing my work e-mails and calendar and want web availability along with phone access on one unit. I can't keep track of my pocket pc and cell phone anymore.

Looking for a Palm Treo
Eyle Fransen

RE: Thinking about buying a 700wx.

SeldomVisitor @ 2/22/2007 3:08:46 PM #

Enduser type commentary doesn't really appear to be a forte of PalmInfoCenter, which is probably a good thing.

Instead, you should go to the Forums over on, for example, TreoCentral

~ <http://discussion.treo-central.com>

and read and write for your needs; there are LOTS of folks there with personal experiences in ALL the TREOs to help you make appropriate decisions.

 **RE: Thinking about buying a 700wx.**

Treo as a full time modem

stevenmoyano @ 3/7/2007 2:57:05 PM #

I have been a Palm fan for many years and currently have Palm E2 and am considering buying a Treo. I recently moved and was wondering that instead of transferring Timewarner broadband "roadrunner light" which runs at about 384K I could possibly use a Treo as my only modem. Is this realistic? I currently pay \$30 (no taxes) and with Treo it would only cost about \$20 more and i would be able to have internet through the phone itself anywhere. Your opionions and advice are appreciated.

What good can I expect when using a PDA as a modem? And what PDA do you guys recommend. I am currently with Sprint, so I consider another provider. Thanks in advance

 **RE: Treo as a full time modem**

Palm Treo 700WX

beahaven @ 11/15/2007 4:33:38 PM #

I am thinking of updating my current cell phone and am wondering if this product is worth the money. I currently do no use any type of electronic appointment device. I do us email from my current cell and I send photos on my current cell. Any help??

 **RE: Palm Treo 700WX**

Outlook?

dh-treo @ 1/4/2008 12:28 PM #

No Outlook on MY CD-and Sprint was hissy: "You have to buy it yourself", even though it was included with my Samsung i700. Unfortunately, I lost that CD and hadn't been using Outlook since the last time my laptop went haywire. Any other suggestions? Palm Desktop not available?

 **RE: Outlook?**

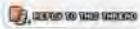
alternative for Black Berry

maykwo @ 1/27/2008 10:29:52 AM #

I am currently a user of Black Berry 8830 user with Sprint. I usually use BB to update my blog and use its calender and note to organize my daily life. Overall, I like this device but I really hate to pay extra data plan for Blackberry. My original Sprint voice plan actually already includes unlimited data and web. I don't know I have to

update my plan till I received the phone. I also don't like emails can't always be displayed correctly. Most of time they are shown in text format which make it very hard to understand all the time. And also this one is not equipped with camera.

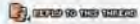
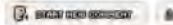
So I would love to find a smart phone don't need to work with extra data plan with Sprint, with easy typing keyboard like BB(I need to type a lot), support Sprint TV and sling box, with good phone quality and speaker(I use a lot), supporting pictures message(also included in my original Sprint plan), good small organized tools like calender, timer, notes. Do you think Plam Treo 700 would be a good replacement for BB. The only place i don't like it is its antenna. Do I have other choices with hidden antenna?



applications

808fox 6/5/2009 12:40:31 AM #

I've downloaded some games to my palm but it says that it can't open them that I need to open the application then I can install the game but i can't figure out how to open the app to begin with. i keep going to games and trying to install it there but no success. I feel pretty illiterate with the thing and have been tempted to throw it out.



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<https://web.archive.org/web/20130612020408/https://www.ephotozine.com/article/casio-exilim-zr1000-hands-on-preview-20264>



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Casio Exilim ZR1000 Special Edition

The Casio Exilim ZR1000 is said to be the fastest Casio Exilim yet, with a start-up time of 0.98 seconds, interval recording 0.26 seconds, high speed auto focus 0.15 seconds, and a shutter release time of 0.016 seconds. It would certainly be interesting to get this camera in for review to see if these manufacturer provided specifications are realised in the real world. It's also the 10th anniversary of the Casio Exilim camera ([read the Casio Exilim history here](#)), and that's why there's also a special edition version of the ZR1000 available.





Casio Exilim ZR1000 Control Ring

Key Features

- 16.1 megapixel CMOS sensor
- 24mm wide angle 12.5x optical zoom lens
- 3inch tilt TFT screen
- Mechanical image stabilisation
- Function ring
- Continuous AF during burst shooting (up to 6fps)
- Rotary dial and RAW
- High Speed Night Shot (ISO25600)
- Premium Auto Pro
- Exilim Engine HS3
- Available in white, black or red



Casio Exilim ZR1000 Tilting Screen

The Casio Exilim ZR1000 uses the Casio Exilim Engine HS3, that is said to give "Triple Zero" consisting of Zero Time Lag (stress-free operation), Zero Blur (faster, more precise focusing, with multi-method focus control), Zero Camera Shake (even handheld). The multi-method focus control sounds particularly interesting, with one of the displays saying this can be used for creating out of focus background (bokeh), or alternatively creating macro photos where everything is in focus from the front to the back of the photo.

Casio Exilim EX-ZR1000 Hands-On Photos of Equipment

Casio History Part2	Casio Exilim Zr1000 (1)	Casio Exilim Zr1000 (2)	Casio Exilim Zr1000 (3)
Casio History Part2 Exilim Story High-Res	Casio Exilim Zr1000 (1) High-Res	Casio Exilim Zr1000 (2) High-Res	Casio Exilim Zr1000 (3) High-Res



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1st June 2013 - 30th June 2013

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Featured e2 Photo



[Erddig Workshop mono](#)

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June's Photo Month

Check out ePHOTOzine's inspirational photo month calendar! Each day click on a window to unveil new photography tips, treats and techniques.

[View June's Photo Month Calendar](#)



Casio Exilim EX-ZR1000 Specifications

Manufacturer		Casio
Lens		
Max Aperture	f/3 - f/5.9	
35mm equivalent	24mm - 300mm	
Optical Zoom	12.5x	
Image Sensor		
CCD pixels	16.1Mp (Megapixels)	
Pixels (W)	4608	
Pixels (H)	3456	
Sensor Type	CMOS	
Sensor Size	No Data	
Sensor Size (width)	No Data	
Sensor Size (height)	No Data	
Aspect Ratio	4:3	
	3:2	
	16:9	
LCD Monitor		
LCD Monitor	3in	
Screen resolution	460,800 dots	
Touch Screen	No	
Focusing		
Min Focus	1cm	
Focusing modes	Autofocus	
	Manual	
	Spot	
	AF Tracking	
	Multi	
	Infinity	
Exposure Control		
Shutter speeds shortest	1/4000sec	

Shutter speeds longest	15sec
Exp modes	Program Aperture-Priority Shutter-Priority Manual Scene modes A
Metering	Centre-weighted - Average Multi Pattern Spot
ISO sensitivity	80 - 25600
White balance	Auto Manual Outdoors/Daylight Cloudy Incandescent Fluorescent Shade
Exposure Comp	+/-2
Shooting Options	
Continuous shooting	30fps
Video	
Movie mode	Yes
Video Resolution	1280x720 720p 640x480 VGA
Video FPS	30
Stereo Sound	Yes
Optical Zoom with Video	Yes
Other Features	
Image Stabilisation	Yes
Interface	
HDMI	Yes
USB	USB 2
Wi-Fi	No
Storage	
Card Type	SD SDHC SDXC
File Type	RAW JPG RAW + JPG
Power Source	
Battery Type	10 seconds, 2 seconds, Triple Self-timer
CIPA Rating	470
Box Contents	
Box Contents	Rechargeable Lithium Ion Battery (NP-130), USB-AC Adaptor (AD-C53U), AC Power Cord, USB cable, neck strap, Quick Start Guide
Dimensions	
Weight	255g

Width	107.5mm
Height	61.5mm
Depth	36.7mm

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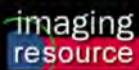
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Casio EXILIM ZOOM EX-Z1000

Review

Camera Reviews > Casio Cameras

EX-Z1000 Overview Design Optics Exposure Performance Specs Samples Gallery

Casio EX-Z1000 Performance

Note: The following review is an experimental review format. Let us know what you think by emailing with the Email link below.

Timing and Performance

Key Factors

There are several key factors to a digicam's performance. How fast it starts up and shuts down can make the difference between getting and missing a shot. Autofocus and prefocus lag measure the responsiveness to the camera to your touch. Cycle time indicates how long you have to wait between shots without using a special burst mode. Flash cycling measures how long it takes the flash to recharge after firing a healthy burst of light. Finally, USB speed measures how quickly the camera can transfer images when connected directly to either a computer or printer.

DESC	SPEED	SCORE	RATING
Startup	2.0 secs	Average	★ ★ ☆
Shutdown	1.6 sec	Above Average	★ ★ ★
Autofocus lag (combined wide angle and telephoto performance)	0.576 sec	Above Average	★ ★ ★
Prefocus lag (half-pressed Shutter button)	0.004 sec	Above Average	★ ★ ★
Cycle time (large/fine JPEG in Continuous mode)	1.5 sec	Above Average	★ ★ ★
Flash cycling	7.5 sec	Below Average	★ ☆ ☆
USB speed	886 KB/sec	Average	★ ★ ☆

The Casio EX-Z1000 is pretty snappy, starting up and shutting down quickly and setting focus fast, too. Its flash is powerful, so takes some time to recharge but the Z1000 offers a flash mode that recycles more quickly at the expense of power. Likewise, the slow USB transfer time is easily overcome simply by using a card reader or PCMCIA adapter.

Ratings

Our ratings range from Below Average to Average to Above Average and are awarded a star for each step. Cameras are compared only to competitors in the same class.

Feature Comparison

Sensor, Zoom, LCD, Weight

Megapixels, zoom range, LCD size and weight are the first considerations of many buyers. Here's how the Z1000 stacks up against the competition.

DESC	SPEC	SCORE	RATING
------	------	-------	--------



Top 3 photos this month win:

- 1 Canon PIXMA Pro 9000 Mark II
- 2 Canon PIXMA MG8220
- 3 Canon PIXMA MG6220

Sensor	10-Mp	Above Average	★ ★ ★
Optical Zoom	3.0x	Average	★ ★ ☆
LCD Size	2.8 inches	Above Average	★ ★ ★
Weight	169 grams	Average	★ ★ ☆

Note that the 3.0x zoom is buttressed by a competent 4x digital zoom. And while the weight may rate only Average, the Casio EX-Z1000 isn't a heavy camera.

Image Stabilization

Some digicams are able to steady a hand-held shot in low light using image stabilization technology, making it unnecessary to use the flash for indoor shots (and thereby avoiding red-eye).

The Casio EX-Z1000 doesn't offer in-camera image stabilization, but its **Anti Shake** mode comes close. Anti Shake takes advantage of the Casio EX-Z1000's large sensor to increase ISO sensitivity without adding an objectionable level of noise to the image. At the same time, shutter speed is just fast enough to prevent camera blur.

While not quite as effective as the two to three stop gain of image stabilization, the Casio EX-Z1000's Anti Shake works well if you don't mind its grainy appearance.

Editing Functions

In-camera editing functions make it possible to tweak an image before printing it directly to a PictBridge printer, for example.

The Casio EX-Z1000 has an excellent selection of image editing functions available in Playback mode, which draw on a few Best Shot mode features. The editing functions include **resizing** (which saves the result as a new image, retaining the original), **cropping** the original to a 4:3 aspect ratio, **keystoning** to correct perspective, **color restoration** to correct the faded colors of an old photo (saved as a new image, retaining the original), changing the **date/time** of an image, and **rotating** an image. Movies can be cut, too, and stills recorded from a movie frame.

Not sure which camera to buy? Let your eyes be the ultimate judge! Visit our [Comparometer\(tm\)](#) to compare images from the Casio EX-Z1000 with those from other cameras you may be considering. The proof is in the pictures, so let your own eyes decide which you like best!

Reader Comments! --> [Visit our discussion forum for the Casio EXILIM ZOOM EX-Z1000!](#)

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Note: For details, test results, and analysis of the many tests done with this camera, please click on the tabs at the beginning of the review or below.

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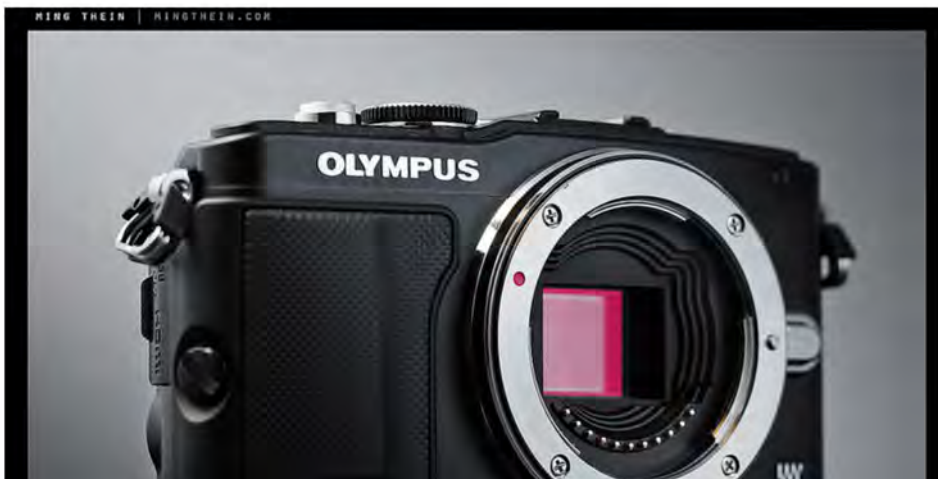
HOME PORTFOLIO FLICKR TEACHING & WORKSHOPS ABOUT & CONTACT CAMERAPEDIA! ASK A QUESTION

The Olympus E-PL5 PEN Lite review: a mini-OM-D

SEPTEMBER 26, 2012 BY MING THEIN 39 COMMENTS



I make no secret of the fact that I'm a huge fan of the original Olympus E-PM1 Pen Mini ([full review here](#)); it brought big-camera speed and image quality to a very compact package. However, the OM-D clearly demonstrated that the image quality potential of Micro Four Thirds could be taken quite a bit further without entailing any compromises. After enjoying a period of exclusivity to that body, the same sensor and imaging processor has now made its way into Olympus' lower end offerings – the E-PL5 Pen Lite and E-PM2 Pen Mini, both recently announced at Photokina. I was given the opportunity to try out a final production E-PL5 recently by Olympus Malaysia.



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Removable grip.

The two cameras retain their original differentiation – a tilting screen and a few buttons. But the E-PL5's screen now pivots through 170 degrees for self-portrait narcissists (I can't personally imagine ever using this feature, though tilting it up for waist-level shooting is great for stealthy capture or a better angle without having to bend over). Both also gain the same capacitive touch screen capability of the E-P3 and OM-D, which I'm find increasingly useful and missing on my Nikons. Sadly though, the LCD on the two smaller cameras remains as a 3", 16:9 aspect ratio unit, which is great for video but leaves a lot of unused real estate in the form of black bars when you're shooting in the native 4:3 aspect ratio of the sensor. Useable area is probably closer to 2.5".

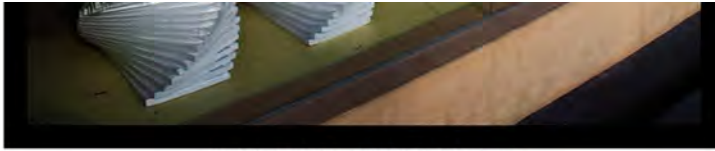


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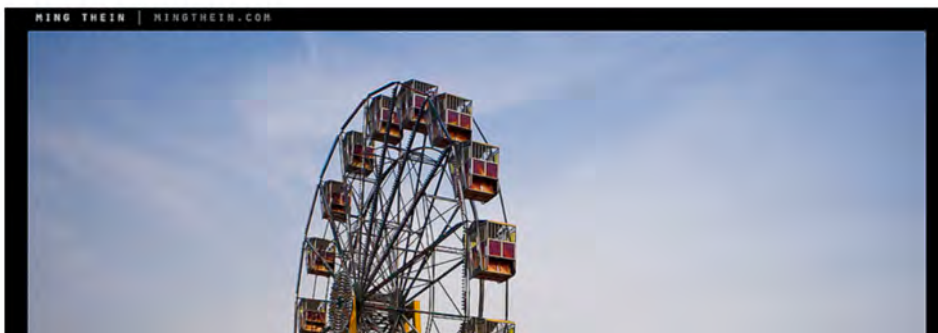
Bookstore abstract. E-PL5, 15/8 body cap

Aside from the 15MP sensor of the OM-D, the E-PL5 also gains a few additional art filters, and compatibility with Olympus' new OI.Share SD card and app for smartphones and tablets (currently, Apple iOS and Android are supported). There are also interchangeable grips – similar to the E-P3. There are also some minor cosmetic changes that give the camera a slightly blockier, more textured appearance. Personally, I prefer the smooth look of the older cameras. Sadly, Olympus still hasn't moved the strap lugs – they still dig into your hands in the normal shooting position. I can't help but feel a narrow loop would be a much better solution for a camera of this size, as well as being silent during video recording.



It's grown in size a little, but it's still roughly in the same ballpark as the original (and Pen Mini, in background.)

In use, the camera is snappy and responsive for all normal operations; AF speed remains excellent, if perhaps fractionally faster than the last generation. (I'm comparing it with my Pen Mini, since I don't have an E-PL3 handy – they share the same innards anyway.) The menu system is redesigned and now looks very similar to the OM-D, complete with most of the custom functions and extensive customizability that is unusual for a camera in this class, which has become one of Olympus' hallmarks. It also gains 8fps shooting, though without AF, of course. I use it as a single-shot camera, or at most in bursts of two or three shots to gain some added stability.





Closed for the weekend. E-PL5, 15/8 body cap

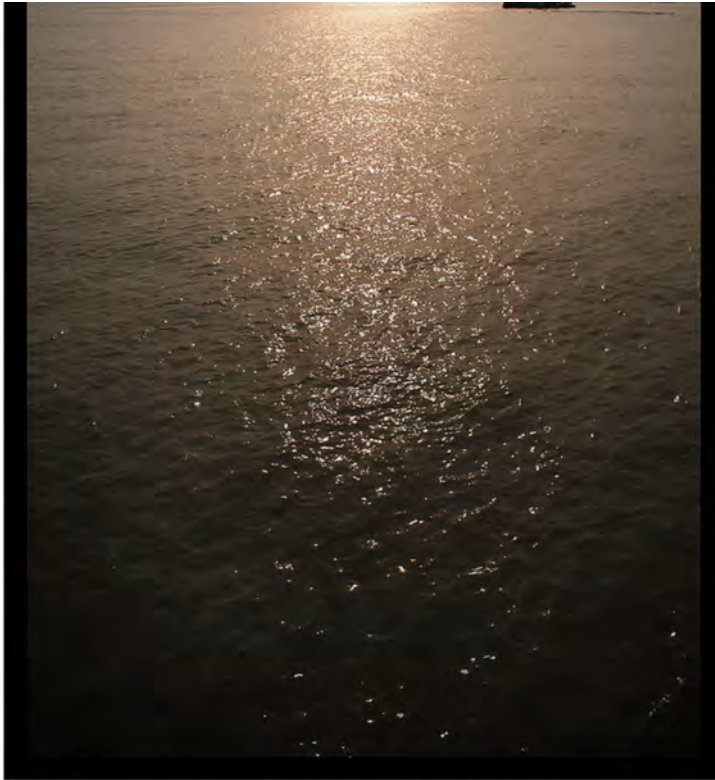
On the subject of stability, the in-body sensor-shift stabilization system is improved over the last generation; I actually turned it off on my Pen Mini because it tended to give odd double images under some conditions. I left it on on the E-PL5, but it's worth noting that it still isn't as effective as the 5-axis gyro system in the OM-D.



Pirates can still be found in some parts of Malacca. E-PL5, 45/1.8

One of the things I missed from the OM-D was the configurable single-button magnify option that allowed one-touch enlargement of either live view or the playback image to your desired ratio at the focus point (10x is actual pixels) – until I discovered that you could just double-tap the screen to achieve the same result. Needless to say, score one for the touch screen. You can of course also use it to select the focus point and release the shutter; speaking of focus points, you can now select a smaller point size by default, which the camera remembers when turned off – something I sorely miss on the OM-D as the large boxes often aren't precise enough. A good number of the other buttons are user-configurable, too.





Sunset over the straits. E-PL5, 15/8 body cap

Something I had trouble getting used to was the feel of the shutter button. Since it's probably the single most important control on the camera, the way it feels is actually quite critical in how you feel towards shooting it; in this respect, the pro Nikons and Canons get it right – a soft but distinct half-press, and no clicky transition but a firm increase in resistance to release. There's enough travel between positions to avoid accidental releases, but not so much to induce lag. The OM-D feels pretty good, too. Other cameras get it wrong – the Sony RX100's shutter release is far too soft; I'm always accidentally firing off a frame when I meant only to focus. The digital Leica Ms are far too notchy and difficult to press smoothly; it's as though there's something rough inside the button's housing or something; perhaps to do with the *three* positions. Shame, since the mechanical Ms were fantastic. Unfortunately, the E-PL5 just falls on the wrong side of soft – it isn't so much the pressure required, but the near-zero difference in travel between half and full press that feels off. And to make things worse, even though the travel is short, the pressure required is very firm – making it difficult to hold the camera steady when releasing. Lack of an eye-level finder only compounds this.





Determination in the face of choices. E-PL5, 45/1.8

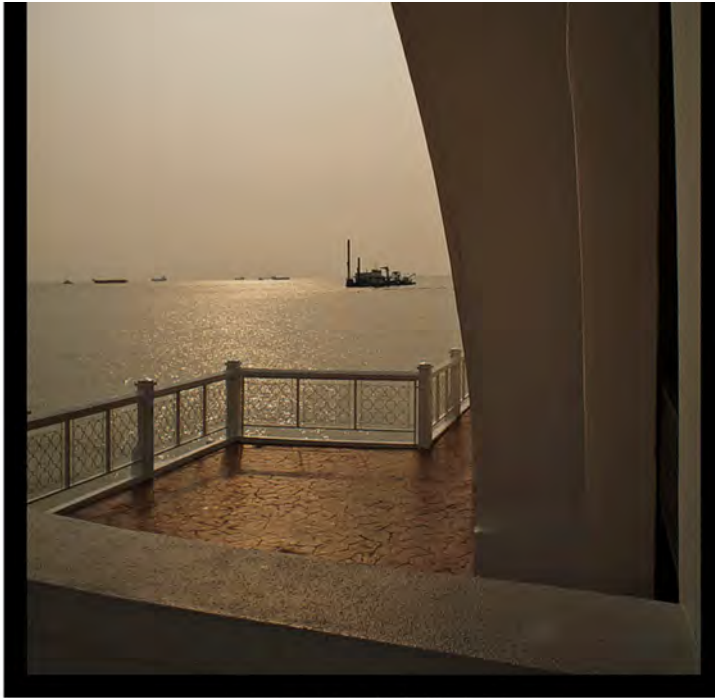
I don't have a lot to say about image quality – if you've used the OM-D, you can safely skip this section. The files look exactly the same, and deliver the same amount of flexibility in postprocessing. Colors are typical Olympus – slightly warm, reasonably saturated, and biased towards delivery of very pleasing skin tones. Dynamic range is around 11-12 stops from a carefully processed raw file at base ISO, which also remains at 200. The tonal range tends to be somewhat midtone and shadow biased; the relatively small pixel pitch of the sensor makes itself known in the highlights; expose with care because there isn't a whole load of recoverable headroom – perhaps a stop at most. Fortunately, there is a live shadow and highlight clipping display option, which allows for precise exposure adjustment at the time of capture. Noise is minimal to ISO 800, and I feel the camera is useable up to ISO 3200, or ISO 5000 under certain lighting conditions.



Just your average chaotic street scene. E-PL5, 45/1.8

At this point it's worth talking a bit about the Olympus Viewer software – I've never had to use it before since ACR always supported the files of cameras I'd purchased. This time, I use the built in raw converter to make a relatively low-contrast TIFF with accurate white balance and exposure, which I'd then take into Photoshop. The native environment is very familiar – it looks a lot like Bridge, from which you can develop and save your files in...you guessed it, something that looks a lot like ACR – or at least an early version of it, without the huge number of options the current version has.





Late afternoon. E-PL5, 15/8 body cap

Previews are fast, and general responsiveness and usability was good. This is easily amongst the better own-brand pieces of software out there. (Nikon, I'm looking at you. For shame.) In fact, the only critical things I can find missing are shadow/highlight recovery sliders and a gradient tool. I'm not so happy with the output, though – the files seem to have a decidedly magenta cast to them which is both difficult to remove, and renders color not as accurately as the JPEGs – especially skin tones, which I find my Olympus cameras generally excel at even via ACR.



Harley after the rain. E-PL5, 45/1.8

Battery life is excellent; I estimate around 500-600 shots with moderate LCD use and power-off between shots. It uses the same battery as the E-PL3 and E-PM1, too, which is nice if you've got a few spares already lying around. Note that there are two models of battery and charger, some of which are compatible and some of which aren't – the light gray model is the latest version of both.



Where Elmo does his shopping. E-PL5, 45/1.8

Throughout the review period, I kept asking myself who this camera was aimed at; the DSLR user/ enthusiast/ amateur looking for a second, more compact body, or the compact upgrader? I personally think it fits the latter better, much like the original Pen Mini. Although it's compatible with the various accessories that connect to the accessory port under the hotshoe (including an EVF) – the lack of a built-in viewfinder means that if you're going to keep the camera compact, you're restricted to arms-length style shooting. The huge number of art filters – also useable in movie mode at the expense of reduced frame rate – and in-camera processing options offers a relatively simple (if slightly lacking in control) method for the amateur user to achieve their desired look without resorting to Photoshop. I personally don't use any of these, but I do know plenty of friends and family who might. What I did really enjoy was using it with the new 15/8 body cap lens as a hyperfocal snapshot camera; in this configuration it's lag-free, and lets you focus solely on timing and composition. It's also just about pocketable.

Ultimately, success at this end of the market will depend heavily on the camera's price point. The rich feature set and overall refinement in operation make me curious to see what will succeed the E-P3; now if only they'd make one with a built-in EVF like the NEX-6...

The Olympus E-PL5 PEN Lite is [available here from Amazon as a kit with the 14-42 IIR lens](#).

If you enjoyed this post, please consider supporting the site via Paypal (mingthein2@gmail.com); [Ming Thein's Email School of Photography – learn exactly what you want to learn, when you want to learn it](#) or learn how to achieve a similar look with our [Photoshop workflow DVDs](#). You can also get your gear from [Amazon.com via this referral link](#). Prices are the same as normal, however a small portion of your purchase value is referred back to me. Thanks!

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Where are my customers? E-PL5, 45/1.8



Somewhere in here is a human being. E-PL5, 45/1.8



Abstract Kuala Lumpur skyline. E-PL5, 15/8 body cap

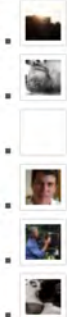
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Comments

Mercurio says:

September 26, 2012 at 12:17 PM

Thank you for your very illustrative review, as always your images are very good.

As an owner of a OM-D, I will love to buy the Olympus E-PL5 PEN Lite as a second camera if it was sold as a "body only" or perhaps with the new 15mm f/8 but not with the kit lens. Maybe Olympus will have to think about. 😊

[Reply](#)

Ming Thein says:

September 26, 2012 at 12:20 PM

Thanks. I've been trying to convince them about the 15/8 too...

[Reply](#)

Eric says:

September 26, 2012 at 12:31 PM

Very Nice review and pictures. The pictures from the 45mm 1.8 really pop. When I got to the "Determination in the face of choices." I could not believe you got that shallow depth of field with the lens cap. Then I saw it was the 45 mm and it all made sense... Did you use the EVF? Best Wishes – Eric

[Reply](#)

Ming Thein says:

September 26, 2012 at 12:47 PM

Thanks. No, I don't have the EVF...might as well just use the OM-D in that case 😊

DonParrot says:

September 26, 2012 at 12:39 PM

Hi Ming,

thanks for your review.

Seems as if I should replace my E-PL3 as second camera to my E-M5 or not.

If I only knew if the C-AF works on the level of the E-M5. But as you don't like the C-AF of the E-M5 anyway you arguably won't be able to answer this question, will you?

But there are two other things I'd like to know (if you checked them): Does the camera (display or EVF) show a live picture when used in burst mode 'L' – and remains the AF field visible when shooting in the burst mode?

Thanks again for the great work

Cheers

Nicolaus

[Reply](#)

Ming Thein says:

September 26, 2012 at 12:47 PM

CAF on all of these things is pretty ropey. As for burst mode...it shows the last taken image, but no AF box.

[Reply](#)

DonParrot says:

September 26, 2012 at 6:19 PM

Thanks.

No live view, no real chance for using the C-AF. A pity.

Ming Thein says:

September 26, 2012 at 6:33 PM

I think that's pretty much the same with all mirrorless cameras, unfortunately.

DonParrot says:

September 26, 2012 at 7:27 PM

Well, as you know I don't share this opinion when it comes to the E-M5.

It produces live pictures in the burst mode L, the blackout-phases can be reduced by switching the EVF-speed to high – and with

the M.Zuiko 14-150 and 75-300, the C-AF is good enough for shooting sighthounds at work. I know, it still is far from being on the level of the sports monsters such as the D4 or the 7D – but from, my point of view, it's absolutely usable.

[Reply](#)

Ming Thein says:
September 26, 2012 at 8:02 PM

I completely forgot about the high speed EVF mode. Going to have to try it.

Dan says:
September 26, 2012 at 1:03 PM

Thanks very much indeed, Ming, for such a timely report for these cameras.

Which camera did you mean by "E-PM5", the E-PL5 or the E-PM2? (There is no such camera called E-PM5 yet.)

[Reply](#)

Ming Thein says:
September 26, 2012 at 1:17 PM

Oops! Should be E-PL5. Fixed. Their naming convention...

[Reply](#)

Dan says:
September 26, 2012 at 1:22 PM

Hi, Ming.

There has been conflicting information about whether there is an orientation sensor in these new cameras? It is a really annoying problem in the current E-PM1 and E-PL3 models. Did you have to manually rotate your "portrait" oriented photos while viewing, editing?

[Reply](#)

Ming Thein says:
September 26, 2012 at 1:31 PM

There's an option to rotate/ display the correct orientation under the playback menu, so yes, it would appear that it has an orientation sensor.

[Reply](#)

nicwalsley says:
September 26, 2012 at 1:58 PM

Hey thanks for the review and photos, some very careful work there with colour and exposure.

I also have and love the E-PM1, and was fully really to get the E-P5. But the E-PL5 will do nicely I am sure.

I'm wondering about how you access shadow/highlight control on the camera. On the E-PM1 you'd select Exposure Adjustment (up arrow), then Info to get to the shadow adjustment, then Info again to get to highlight adjustment.

Is it any better on the E-PL5?

[Reply](#)

Ming Thein says:
September 26, 2012 at 2:02 PM

Not really. Depends on how you choose to set up your function keys.

[Reply](#)

Andrew Marrero says:
September 26, 2012 at 2:18 PM

Wow, you weren't kidding about the 12mm. I see you have replaced it with the 15mm! 🙄

[Reply](#)

Ming Thein says:

Ming Thein says:
September 26, 2012 at 3:09 PM

Haha no, I guess I just got seduced by the size.

[Reply](#)

Wolfgang Lönien says:
September 26, 2012 at 3:03 PM

Wow – that body cap lens is nice! Good photos as always, and thanks for the report Ming.

[Reply](#)

Ming Thein says:
September 26, 2012 at 3:10 PM

Thanks. It does the job, but the edges aren't stellar.

[Reply](#)

Samsudin says:
September 26, 2012 at 8:46 PM

I've always have soft spot for Olympus, after all my first SLR was the OM10. What are your thoughts on using the M.Zuiko Digital 60mm f2.8 on E-PL5 Pen Lite or E-PM2? Will it be money wisely spent? Fantastic review as always.

[Reply](#)

Ming Thein says:
September 26, 2012 at 9:12 PM

Good glass will always look better than bad glass...so yes, you'll see the difference.

[Reply](#)

cornelius says:
September 26, 2012 at 9:30 PM

I think I've found my next camera!

[Reply](#)

Salvador Moreno says:
September 26, 2012 at 10:18 PM

Will you write a review of the 15mm lenscap soon? Could you give us a short impression of its IQ?

[Reply](#)

Ming Thein says:
September 27, 2012 at 7:29 AM

It's in the plan. I'm waiting for a final production version though, this one is an engineering sample. So far – center is sharp, edges not so much.

[Reply](#)

dan says:
September 27, 2012 at 2:12 AM

hi i would to ask what about live view bulb mode from OM-D ? it is implemented on E-PL5 too ? or is it another advantage of high end model ?

[Reply](#)

Ming Thein says:
September 27, 2012 at 7:32 AM

You get live view bulb on the E-PL5, too.

[Reply](#)

micksh says:

September 27, 2012 at 5:32 AM

Thank you.

Does it have stabilized live view like E-M5? (half-press shutter and IS turns on, this needs to be enabled in menu first)

And does mechanical IBIS work during video shooting, or only software IS, like on previous pens? (Wobbly video with IS on would indicate software IS)

[Reply](#)

Ming Thein says:

September 27, 2012 at 7:37 AM

Yes, the IS is mechanical and works full time under both situations.

[Reply](#)

Vesselin Iossifov says:

September 27, 2012 at 5:00 PM

I thought that the 5-axis IBIS was the only one that was capable of working during video shooting. It would be something new if the E-PL5's mechanical IBIS works during video, as it is not the 5-axis one that the E-M5 has...

Ming Thein says:

September 27, 2012 at 5:05 PM

It *appears* to work on my sample...I wasn't aware of this limitation in earlier models.

Andi says:

September 27, 2012 at 8:21 AM

Great review Ming Tein! Just wondering whether the penpal can still be used in this epl5?

[Reply](#)

Ming Thein says:

September 27, 2012 at 8:26 AM

It has the same accessory port as the others, so I don't see why not.

[Reply](#)

Sammy says:

September 27, 2012 at 10:20 AM

I've had the e-pm1 since it came out and, other than the sometimes wonky IBIS, I love it. I've decided to keep it as a backup and buy another camera with better high ISO performance (the e-pm1's isn't too shabby, especially with fast primes, but I find I occasionally need better noise performance). How many stops would you say the e-pl5 is better than the e-pm1 in terms of noise performance? Better still, how does the e-pl5 compare to the Sony Nex (anyone that you may have tried) in this regard?

Thanks for the great, informative review as always.

[Reply](#)

Ming Thein says:

September 27, 2012 at 11:54 AM

Easily one, possibly as much as two. None of the NEX cameras I've used have given decent color...

[Reply](#)

Trackbacks

Ming Tein review of the the E-PL5 PEN Lite - Micro Four Thirds User Forum says:

September 26, 2012 at 10:15 PM

[...] Ming Tein review of the the E-PL5 PEN Lite I want to share this interesting and inspiring review of the the Olympus E-PL5 PEN Lite by Ming Thein: The Olympus E-PL5 PEN Lite review: a mini-OM-D [...]

[Reply](#)

Cycling Photography - Tips and Gear says:
September 27, 2012 at 4:06 AM

[...] whoa, check out these shots from Olympus' upcoming body cap lens. Just search for "15/8" here. Much better than I [...]

[Reply](#)

Anyone Order the 15mm bodycap lens - Page 2 - Micro Four Thirds User Forum says:
September 27, 2012 at 1:05 PM

[...] Yep ordered. BTW there are several samples on Ming Thien's review of the E-PL5, although not full res. You can see some sharpness degradation at the edges but nothing too bad at these sizes. In other words, good enough. Which was more than I was expecting: The Olympus E-PL5 PEN Lite review: a mini-OM-D [...]

[Reply](#)

Ming Thein's E-PL5 Review - Micro Four Thirds User Forum says:
September 27, 2012 at 4:22 PM

[...] Thein's E-PL5 Review Ming Thein has managed to get his hands on the E-PL5: The Olympus E-PL5 PEN Lite review: a mini-OM-D. Hopefully he'll also review the one I'm waiting for soon, the E-PM2! Apologies if this has been [...]

[Reply](#)

Thoughts? Leave a comment here and I'll get back to you.

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(Address never made public)

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Model Name: Canon PowerShot G15

Check Prices: [Check Now!](#)

Photo Gallery URL:

Device Forum URL:

Manufacturer URL: [Mfr. Website](#)

General

Model Number: G15

Camera Format: Mid-Sized

Currently Manufactured: Yes

Retail Price: \$499.99

Street Price: \$488.23

Date Available: 2012-10-15

Tripod Mount: Yes

Weight: 12.4 oz (352 g)
Includes batteries

Weight With Batteries? Yes

Size: 4.2 x 3.0 x 1.6 in.
(107 x 76 x 40 mm)

Waterproof: No

Image Capture

Image Resolution: 4000 x 3000 (12.0 MP, 4:3),
4000 x 2664 (10.7 MP, 3:2),
4000 x 2248 (9.0 MP, 16:9),
2992 x 2992 (9.0 MP, 1:1),
2816 x 2112 (5.9 MP, 4:3),
2816 x 1880 (5.3 MP, Other),
2816 x 1584 (4.5 MP, 16:9),
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1600 x 1200 (1.9 MP, 4:3),
1600 x 1064 (1.7 MP, 3:2),
1200 x 1200 (1.4 MP, 1:1),
640 x 480 (0.3 MP, 4:3),
640 x 424 (0.3 MP, 3:2),
640 x 360 (0.2 MP, 16:9)

Continuous-mode frames/second: 10.0

Movie Resolution: 1920x1080, 1280x720, 640x480

Movie Frame Rate: 24, 30, 30

Movie Audio: Yes

CMOS Sensor (Megapixels): 13.30

CMOS Size (inches): 1/1.7"

Focal Length Multiplier: n/a

Aspect Ratio: 16:9, 4:3

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TODAY'S PHOTO of the DAY

Top 3 photos this month win:

1

Canon PIXMA Pro 9000 Mark II

2

Canon PIXMA MG8220

3

Canon PIXMA MG6220

Insta360

Exhibit 1035

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IPR2024-00984

Insta360 v. GoPro

Sensor Type:	CMOS
Effective Megapixels:	12.10
Lens	
Focal Length (35mm equivalent):	28 - 140 mm
Zoom Ratio:	5.00x
Digital Zoom:	Yes
Digital Zoom Values:	Up to 4x
Auto Focus:	Yes
Auto Focus Assist Light?	Yes
Manual Focus:	No
Normal Focus Range:	5 cm to Infinity 2.0 in to Infinity
Macro Focus Range:	1 - 50 cm 0.4 - 19.7 in
Aperture Range:	f/1.8 (W) / f/2.8 (T) - f/8.0
Lens Thread:	
Lens Thread Type:	
Display	
Optical Viewfinder:	Yes
LCD Viewfinder:	Yes
LCD Size (inches):	3.0
LCD Resolution:	922,000 dots
OLED Screen:	No
Touchscreen:	No
Max Playback Zoom:	10.0x
Exposure	
ISO Settings:	Auto, ISO 80 to 12800
White Balance Settings:	Auto, Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom 1/2, Underwater
Shutter Speed Range:	15 - 1/4000
Exp Adj Range (EV):	+/- 3.0EV in 0.3EV steps
Metering Modes:	Evaluative, Center-weighted average, Spot, Face Detect AE
Program AE:	Yes
Aperture Priority:	Yes
Shutter Priority:	Yes
Full Manual Exposure:	Yes
Creative Exposure Modes:	Scene modes (Portrait, Smooth Skin, Smart Shutter*4, High-Speed Burst HQ, Handheld NightScene, Underwater, Snow, Fireworks, Stitch Assist), Creative Filters (High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Soft Focus, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap)
Self Timer:	1 - 30 seconds
Flash	
Internal Flash:	Yes
Flash Modes:	Auto, Auto w/Red-eye Reduction, Flash On, Flash On w/Red-eye Reduction, Flash Off, FE lock, Safety FE, Slow Synchro, Second-curtain synchro

Flash Guide Number (Meters):	n/a
Flash Range Description:	Auto ISO: 1.6 ft.-23 ft./50 cm-7 m (W), 1.6-15 ft./50cm-4.5m (T)
Ext Flash Connection:	Hot-Shoe
Image Storage	
Usable Memory Types:	SD / SDHC / SDXC
Memory Included (MB):	
Uncompressed Format:	12-bit Raw (.CR2)
CCD Raw Format:	Yes
Movie File Format:	MOV (Image: H.264, Audio: Stereo PCM)
Connectivity	
Video Out:	Yes
Video Mode (NTSC/PAL):	Yes
Video Usable as Viewfinder:	
External Connections:	USB 2.0 High Speed
Other Connection:	Combined USB/AV, Mini (Type-C) HDMI, Remote
Included Software:	Digital Camera Solution CD-ROM
OS Compatibility:	Windows XP SP3/Vista/7, Mac OS
Power	
Battery Form Factor:	Proprietary NB-10L
Usable Battery Types:	Lithium-ion rechargeable
Batteries Included:	1 x Proprietary NB-10L Lithium-ion rechargeable
Battery Charger Included:	Yes
CIPA Rating:	350
Notes & Features:	Fast f/1.8(W)-f/2.8(T) lens, DIGIC 5 processor, Intelligent Image Stabilization, improved AF performance, 10 fps High-Speed Burst mode, Full HD 1080p24 video, 58 scene Smart Auto, supports conversion lenses.

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Model Name: Canon PowerShot G15

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URL:

Manufacturer

URL:

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General

Model Number: G15

Camera Format: Mid-Sized

Currently Manufactured: Yes

Retail Price: \$499.99

Street Price: \$488.23

Date Available: 2012-10-15

Tripod Mount: Yes

Weight: 12.4 oz (352 g)
Includes batteries

Weight With Batteries? Yes

Size: 4.2 x 3.0 x 1.6 in.
(107 x 76 x 40 mm)

Waterproof: No

Image Capture

Image Resolution: 4000 x 3000 (12.0 MP, 4:3),
4000 x 2664 (10.7 MP, 3:2),
4000 x 2248 (9.0 MP, 16:9),
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Top 3 photos this month win:

- 1 Canon PIXMA Pro 9000 Mark II
- 2 Canon PIXMA MG8220
- 3 Canon PIXMA MG6220

Sensor Type:	CMOS
Effective Megapixels:	12.10
Lens	
Focal Length (35mm equivalent):	28 - 140 mm
Zoom Ratio:	5.00x
Digital Zoom:	Yes
Digital Zoom Values:	Up to 4x
Auto Focus:	Yes
Auto Focus Assist Light?	Yes
Manual Focus:	No
Normal Focus Range:	5 cm to Infinity 2.0 in to Infinity
Macro Focus Range:	1 - 50 cm 0.4 - 19.7 in
Aperture Range:	f/1.8 (W) / f/2.8 (T) - f/8.0
Lens Thread:	
Lens Thread Type:	
Display	
Optical Viewfinder:	Yes
LCD Viewfinder:	Yes
LCD Size (inches):	3.0
LCD Resolution:	922,000 dots
OLED Screen:	No
Touchscreen:	No
Max Playback Zoom:	10.0x
Exposure	
ISO Settings:	Auto, ISO 80 to 12800
White Balance Settings:	Auto, Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Custom 1/2, Underwater
Shutter Speed Range:	15 - 1/4000
Exp Adj Range (EV):	+/- 3.0EV in 0.3EV steps
Metering Modes:	Evaluative, Center-weighted average, Spot, Face Detect AE
Program AE:	Yes
Aperture Priority:	Yes
Shutter Priority:	Yes
Full Manual Exposure:	Yes
Creative Exposure Modes:	Scene modes (Portrait, Smooth Skin, Smart Shutter*4, High-Speed Burst HQ, Handheld NightScene, Underwater, Snow, Fireworks, Stitch Assist), Creative Filters (High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Soft Focus, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap)
Self Timer:	1 - 30 seconds
Flash	
Internal Flash:	Yes
Flash Modes:	Auto, Auto w/Red-eye Reduction, Flash On, Flash On w/Red-eye Reduction, Flash Off, FE lock, Safety FE, Slow Synchro, Second-curtain synchro

Flash Guide Number (Meters):	n/a
Flash Range Description:	Auto ISO: 1.6 ft.-23 ft./50 cm-7 m (W), 1.6-15 ft./50cm-4.5m (T)
Ext Flash Connection:	Hot-Shoe
Image Storage	
Usable Memory Types:	SD / SDHC / SDXC
Memory Included (MB):	
Uncompressed Format:	12-bit Raw (.CR2)
CCD Raw Format:	Yes
Movie File Format:	MOV (Image: H.264, Audio: Stereo PCM)
Connectivity	
Video Out:	Yes
Video Mode (NTSC/PAL):	Yes
Video Usable as Viewfinder:	
External Connections:	USB 2.0 High Speed
Other Connection:	Combined USB/AV, Mini (Type-C) HDMI, Remote
Included Software:	Digital Camera Solution CD-ROM
OS Compatibility:	Windows XP SP3/Vista/7, Mac OS
Power	
Battery Form Factor:	Proprietary NB-10L
Usable Battery Types:	Lithium-ion rechargeable
Batteries Included:	1 x Proprietary NB-10L Lithium-ion rechargeable
Battery Charger Included:	Yes
CIPA Rating:	350
Notes & Features:	Fast f/1.8(W)-f/2.8(T) lens, DIGIC 5 processor, Intelligent Image Stabilization, improved AF performance, 10 fps High-Speed Burst mode, Full HD 1080p24 video, 58 scene Smart Auto, supports conversion lenses.

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Product timeline

The timeline shown below is a graphical representation of new digital camera product announcements, displayed in reverse chronological order.

2012 ▾ All Brands ▾ All Categories ▾

[Forward to 2013](#)

Nov 6th [Canon EF 35mm f/2 IS USM](#)
[Canon EF 24-70mm f/4L IS USM](#)
[Nikon D5200](#)

November 2012

Oct 24th [Nikon 1 V2](#)
[Nikon AF-S Nikkor 70-200mm f/4G ED VR](#)

October 2012

Sep 25th [Casio Exilim EX-ZR1000](#)

Sep 17th [Olympus PEN E-PL5](#)
[Olympus PEN E-PM2](#)
[Panasonic Lumix DMC-GH3](#)
[Canon EOS 6D](#)
[Canon PowerShot G15](#)
[Fujifilm XF1](#)
[Olympus XZ-2 iHS](#)
[Canon PowerShot SX50 HS](#)
[Canon PowerShot S110](#)
[Leica M Typ 240](#)
[Leica M-E Typ 220](#)
[Sigma 17-70mm F2.8-4 DC MACRO OS HSM | C](#)
[Sigma 35mm F1.4 DG HSM](#)
[Sigma 120-300mm F2.8 DG OS HSM](#)
[Olympus Body cap lens 15mm F8.0](#)
[Leica D-Lux 6](#)
[Leica V-Lux 4](#)
[Samsung NX 12-24mm F4-5.6 ED](#)
[Samsung NX 45mm F1.8](#)
[Panasonic Lumix G X Vario 35-100mm F2.8 OIS](#)
[Canon Pixma Pro-10](#)
[Canon Pixma Pro-100](#)

Sep 14th [Samyang 10mm 1:2.8 ED AS UMC CS](#)

Sep 13th [Nikon 1 Nikkor 18.5mm f/1.8](#)
[Nikon D600](#)
[Tamron SP 70-200mm F/2.8 Di VC USD](#)
[Tamron SP 90mm F2.8 Di VC USD 1:1 Macro](#)
[Sony Alpha NEX-6](#)
[Sony SLT-A99](#)
[Sony Cyber-shot DSC-RX1](#)

Sep 12th	Sony E 10-18mm F4 OSS Sony E 16-50mm F3.5-5.6 PZ OSS Sony E 35mm F1.8 OSS Sony 300mm F2.8 G SSM II Sony E PZ 18-200mm F3.5-6.3 OSS
Sep 10th	Pentax K-5 II Pentax HD DFA645 Macro 90mm F2.8 ED AW SR Pentax smc DA 18-270mm F3.5-6.3 ED SDM Pentax HD DA 560mm F5.6 ED AW Pentax 06 Telephoto 15-45mm Pentax Q10 Pentax K-5 IIs
Sep 7th	Samyang T-S 24mm 1:3.5 ED AS UMC
Sep 6th	Fujifilm XF 14mm F2.8 R Fujifilm XF 18-55mm F2.8-4 R LM OIS Fujifilm X-E1
September 2012	
Aug 29th	Sony Alpha NEX-5R Samsung Galaxy Camera 4G Samsung Galaxy Camera 3G
Aug 22nd	Nikon Coolpix P7700 Nikon Coolpix S800c Nikon Coolpix S01 Pentax X-5 Nikon Coolpix S6400
Aug 21st	Canon PowerShot SX160 IS Canon PowerShot SX500 IS Olympus VH-515 Olympus VH-410 Olympus Stylus SP-820UZ
Aug 9th	Nikon 1 J2 Nikon 1 Nikkor 11-27.5mm f/3.5-5.6 Nikon Coolpix L610
August 2012	
Jul 25th	Sony DT 55-300mm F4.5-5.6 SAM Fujifilm FinePix F800EXR
Jul 23rd	Canon EOS M Canon EF-M 18-55mm F3.5-5.6 IS STM Canon EF-M 22mm F2 STM
Jul 18th	Panasonic Lumix DMC-LX7 Panasonic Lumix DMC-G5 Panasonic Lumix DMC-FZ200 Panasonic Lumix DMC-FZ60 Panasonic Lumix DMC-LZ20 Panasonic Lumix DMC-SZ5 Panasonic Lumix G Vario 45-150mm F4-5.6 ASPH Mega OIS
Jul 3rd	Samsung EX2F
July 2012	

Jun 17th	Sony DT 18-135mm F3.5-5.6 SAM
Jun 15th	Sigma 18-250mm F3.5-6.3 DC Macro OS HSM Olympus M.Zuiko Digital 17mm 1:1.8
Jun 14th	Nikon AF-S DX Nikkor 18-300mm F3.5-5.6G ED VR Nikon AF-S Nikkor 24-85mm F3.5-4.5G ED VR
Jun 8th	Canon EOS 650D Canon EF-S 18-135mm f/3.5-5.6 IS STM Canon EF 40mm f/2.8 STM
Jun 6th	Sony Cyber-shot DSC-RX100
June 2012	
May 22nd	Casio Exilim EX-ZR300
May 21st	Panasonic Lumix G X Vario 12-35mm F2.8 ASPH Power OIS Pentax smc DA 50mm F1.8 Pentax K-30 Pentax Optio LS465
May 17th	Sony SLT-A37 Sony Alpha NEX-F3 Sony E 18-200mm F3.5-6.3 OSS LE
May 10th	Leica M-Monochrom Leica X2 Leica V-Lux 40 Leica APO-Summicon-M 50mm f/2 ASPH
May 8th	Olympus Tough TG-1 iHS
May 2012	
Apr 25th	Adobe Photoshop CS6 extended Adobe Photoshop CS6 Adobe Camera Raw 7 Adobe Bridge CS6
Apr 19th	Samsung NX1000 Samsung NX210 Samsung NX20 Nikon D3200 Nikon AF-S Nikkor 28mm f/1.8G
Apr 12th	Canon EOS-1D C
Apr 7th	Canon EOS 60Da
Apr 5th	Panasonic Lumix DMC-GF5
April 2012	
Mar 15th	Apple Aperture

Mar 13th	Sony SLT-A57
Mar 8th	Adobe Photoshop Lightroom 4
Mar 2nd	Canon EOS 5D Mark III
March 2012	
Feb 28th	Sony Cyber-shot DSC-H90 Sony Cyber-shot DSC-HX200V Sony Cyber-shot DSC-HX30V Sony Cyber-shot DSC-HX20V Sony Cyber-shot DSC-HX10V Sony Cyber-shot DSC-WX150 Sony Cyber-shot DSC-W690 Sony Cyber-shot DSC-TX66 Sony Cyber-shot DSC-TX20
Feb 8th	Olympus OM-D E-M5 Olympus M.Zuiko Digital ED 60mm f2.8 Macro Olympus M.Zuiko Digital ED 75mm f1.8 Olympus SZ-31MR iHS Olympus TG-820 iHS Sigma DP1 Merrill Sigma DP2 Merrill Sigma SD1 Merrill
Feb 7th	Canon EF 24-70mm f/2.8L II USM Canon EF 24mm f/2.8 IS USM Canon EF 28mm f/2.8 IS USM Canon PowerShot ELPH 530 HS Canon PowerShot A810 Canon PowerShot A1300 Canon PowerShot A2300 Canon PowerShot A2400 IS Canon PowerShot A3400 IS Canon PowerShot A4000 IS Canon PowerShot D20 Canon PowerShot SX240 HS Canon PowerShot SX260 HS Canon Selphy CP810 Nikon D800 Nikon D800E Pentax Optio WG-2 Pentax Optio WG-2 GPS
Feb 6th	Tamron SP 24-70mm F/2.8 Di VC USD
Feb 2nd	Ricoh GXR A16 24-85mm F3.5-5.5 Pentax K-01 Pentax smc DA 40mm F2.8 XS Lens
Feb 1st	Nikon Coolpix P310 Nikon Coolpix P510 Nikon Coolpix L810 Nikon Coolpix L26 Nikon Coolpix S30 Nikon Coolpix S3300 Nikon Coolpix S4300 Nikon Coolpix S6300 Nikon Coolpix S9300
February 2012	
Jan 31st	Panasonic Lumix DMC-ZS20 Panasonic Lumix DMC-TS20 Panasonic Lumix DMC-TS4 Panasonic Lumix DMC-ZS15
Jan 30th	Sony Cyber-shot DSC-TX200V Sony Cyber-shot DSC-WX50 Sony Cyber-shot DSC-WX70
Jan 25th	Pentax Optio VS20

	Sigma APO Macro 180mm F2.8 EX DG OS HSM
	Sigma 30mm F2.8 EX DN
	Sigma 19mm F2.8 EX DN
	Sony Cyber-shot DSC-W610
	Sony Cyber-shot DSC-W620
	Sony Cyber-shot DSC-W650
	Olympus VR-340
	Olympus VG-160
Jan 10th	Olympus TG-320
	Olympus SZ-12
	Olympus SP-620 UZ
	Kodak EasyShare M750
	Kodak EasyShare Z5120
	Kodak EasyShare C135
	Casio Exilim EX-ZS150
	Casio Exilim EX-ZS20
	Casio Exilim EX-ZS6
	Casio Exilim EX-ZS12
	Canon PowerShot G1 X
	Fujifilm X-Pro1
	Canon ELPH 520 HS
	Panasonic Lumix DMC-SZ7
	Panasonic Lumix DMC-SZ1
	Panasonic Lumix DMC-FH8
	Panasonic Lumix DMC-FH6
	Panasonic Lumix DMC-S2
Jan 9th	Samsung WB850F
	Samsung WB150F
	Samsung ST76
	Samsung ST200F
	Samsung ST66
	Fujifilm XF 18mm F2 R
	Fujifilm XF 35mm F1.4 R
	Fujifilm XF 60mm F2.4 R Macro
	Casio Exilim EX-ZR15
Jan 8th	Corel Aftershot Pro
Jan 6th	Nikon D4
	Nikon AF-S Nikkor 85mm f/1.8G
	Fujifilm FinePix XP150
	Fujifilm FinePix XP50
	Fujifilm FinePix Z1000EXR
	Fujifilm FinePix T400
	Fujifilm FinePix SL300
	Fujifilm FinePix SL240
	Fujifilm FinePix S4500
	Fujifilm FinePix S4200
Jan 5th	Fujifilm FinePix JZ200
	Fujifilm FinePix JZ100
	Fujifilm FinePix JX550
	Fujifilm FinePix JX500
	Fujifilm FinePix F770EXR
	Fujifilm FinePix F660EXR
	Fujifilm FinePix F750EXR
	Fujifilm FinePix Z110
	Fujifilm FinePix HS30EXR
Jan 2nd	Samsung DV300F

January 2012

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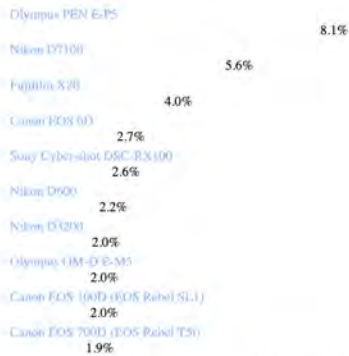
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WEDNESDAY, FEBRUARY 6, 2013

Canon G15 Review

Canon G15 Review

October 2012, Carl Garrard



Canon G15 Review- For as long as I can recall, I've been looking for a rangefinder styled camera that can perform nearly all of my photographic tasks in one single package. The range I ask of in a design ranges from Landscape to Low Light Street to Macro Shooting. To date, Canon's G series cameras have *almost* completely met my entire needs for a compact rangefinder style camera, but have fallen slightly short in certain key areas. Could the G15 finally be the best well rounded G camera yet? I know I'm certainly not alone in the pursuit for the perfect compact camera, so for those that are interested in this type of camera, please read on.

CANON G15 B&H DEAL

Canon G15 Review: Introduction

The Canon Powershot G15 is the latest G series camera from Canon stemming from a historical and traditional lineup of G series cameras that goes way back to the year 2000. In the digital age of cameras, this is indeed way back. The G15 sports an all metal body, 3" LCD w/920K dots and a glass cover outer layer (might be the first compact ever to have a glass LCD cover), and a 28-140mm f/1.8-f/2.8 lens. Inside sits a newly Canon developed 12mp CMOS HD sensor capable of outputting 12mp and true 1080p HD video. A new digic 5 processor handles the load.

On the power side, the G15 uses a new NB-10L battery that replaces the NB-7L battery of the G10/11/12 cameras, which is slightly smaller with less power than it's predecessors. As usual the G15 comes with a *slightly improved* optical viewfinder (as is "tradition" with the G series) for those who prefer to compose through glass with the camera stabilized by your forehead. Also, the G15 is loaded with many of the modern Jpeg only grounded features like HDR, low light mode, and digital "filters" to aid in many different scenarios.

In the box you get the very basics: A CD manual (bleh), warranty card and fast start up manual, battery and charger, camera strap. Basic, but the camera yields a lot for the price (especially the deal I found for mine).

CANON G15 B&H DEAL

Canon G15 Review: Overview



Taking a closer look at the G15's front side, we see the typical additions to the modern G series. An optical finder, AF assist lamp, removable ring w/bayonet accessory mount and release button, and a real textured grip. New additions are the front control wheel (only since the G12), hidden pop up flash (G1X started that), slimmer design, and that wonderful newly designed lens with a f/1.8-f/2.8 28-140mm specification. The new lens is completely redesigned and has lens elements designed similar to the much higher priced professional grade Canon "L" lenses for DSLRS. It offers more than just the brighter aperture too. The new lens improves upon it's predecessors lens in many other respects, and the front bezel is now made of metal, not plastic. Overall it's just more refined, and a bit larger optic too (it needs to be for the fast aperture range).

Distortions such as barrel, chromatic aberrations, flare, and pincushion have all been slightly improved over the G10-G12 cameras (especially CA's). Macro performance has also been addressed, and the minimum focusing distance has been improved for 75% of the focal range (from about 35-110mm). This allows greater control over depth of field beyond its brighter lens, so there is a two fold improvement here.

The AF assist lamp is also brighter and casts a larger area of illumination than the recent G series cameras (G7 onward to now). This helps the G15 focus faster and with more lock rates, and more accuracy in low to no light conditions. Add that to the brighter lens that allows a one and one third stop advantage, and the G15 suddenly becomes a much better low light camera for several reasons.

ABOUT ME

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Please reply to any of the articles that interest you, we learn from each other that way.

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Taking a look at the back of the G15 there are many differences in comparison to its recent predecessors. The OVF housing is more flush to the body, the LCD is 3" wide with a glass cover and 920K dots of resolution. Glare resistance and viewing angles are marvelous. Less scratches and much easier to view with much more detail. One of the finest 3" LCD screens I've seen on any camera, let alone a compact. I do believe the G15 is the first compact camera to sport a glass LCD screen. Moving on, the EV dial is positioned right at the thumb and is now an acceptable -3 to +3 range.

The thumb pad is larger and better contoured than previous G cameras, and inset is a dedicated video button. Nice to have that but it's in the wrong location. An AEL button should be there instead. And in place of the playback

button by the finder, the video button should reside. This would put the playback and delete buttons right next to one another, and this layout overall would be even better and more efficient. Canon should pay me for these kind of tips. Ok I'm kidding about the pay but I'm serious about the tips.

The G15 is a still shooters camera first, so the priority of controls should be in favor of still shooters. Right? That should be a no brainer, but alas. And again moving on... the AEL button is still available albeit to the right and down from the thumb pad, and the MF position gives way to the ISO adjustment because the ISO dial has been removed from the top. That doesn't bother me much, but shooters of G cameras do like their dials! I do like how macro, standard, and manual focus options are now all in one place as a result. Some cons have pros after all.



And on the top of the G15 lies most of the changes compared to its predecessors. Gone is the exposure dial replaced by a pop up flash and release switch. And in instead of the centered stacked array of remaining control dials, there is an offset duo consisting of the main menu dial and dedicated EV dial with a greater range of exposure compensation. This dial is perfectly situated to be controlled by the thumb at all times. This, was a good decision. I'm not so sure about the popup flash replacing an ISO or EV dial though.

Seems to me it's more of a marking "slick" presentation than a practical advantage over the previous iterations. I don't ever recall having red eye issues with any G series camera from the G7 onward, but maybe I've just been lucky. Having the flash pop up about 1/2" higher doesn't seem to be all that much of

an advantage to me. Especially for what you lose control wise. Also, you'll now need to pop up the flash in order to use it because it doesn't have an auto popup control. Just one more step to get a flash exposure. Seems like an awful lot of loss of quick control for a slick pop up flash that looks cool. Hmmm.

Otherwise, this is a G camera through and through. Overall the body is a bit cleaner in appearance, and looks almost too simple in comparison to say, the G12. But the G15 handles very well and better than the current competition, so I'm not going to complain much overall. That said, competition in this category is getting tight Canon- you might as well keep advancing in user control, not go backwards. And that is my last word on that.

CANON G15 B&H DEAL

Canon G15 Review- Performance

In this section I'll go over areas of the G15's performance that I feel are noteworthy. Obviously there will be areas I don't cover but I'll try to prioritize the most important ones. That said, the Canon G15 is equipped with a new Digic V processor, that helps the G15 process complex equations faster than previous cameras.



If you haven't learned already, Canon cites a major improvement in AF speed over the G12 and G1X. Now, according to Canon, you can catch a moving bird in flight in the middle of the frame, contrary to having half of it cut off on the right hand side of the frame. Yes I'm kidding, but I hope some of you saw that marketing stuff to the left and had a bit of a laugh. I know what Canon are attempting to convey here of course, but some of the marketing stuff I see gives me a bit of a giggle at times.

So, kidding aside, how does the G15 perform? Well lets just compare it to the G12 to keep things simple. In short, the G15 is much more responsive in many areas, not just autofocus. It starts up and shuts down a bit faster (not a lot but noticeable), it zooms faster, playback and record are faster, and of course autofocus speed is improved greatly.

The autofocus improvement is immediately noticeably, impressively so- and especially in good light. In dark light, the new AF assist lamp covers a slightly larger area which along with the brighter aperture, allows the G15 to lock onto subjects in the dark much quicker than the G12. The G15 is quick enough that I'd not hesitate to take action shots knowing full well I probably only have one chance to snag a good one. But the G15 isn't supposed to be an action camera or DSLR, its supposed to be a well rounded instrument that minimalists can rely on in photographic situations when carrying large heavy gear isn't an option.

In that role, the G15 performs admirably. It indeed is a quick performing camera that can execute many tasks quickly and competently. I'd go so far to say that most photographers out there would be better off with a camera like the G15 instead of a DSLR.

CANON G15 B&H DEAL

Canon G15 Review- LCD Screen



I don't normally dedicate a section to LCD screens for any cameras I've reviewed in the past. Normally I give the basics and how they perform and move on. But this isn't your typical screen. This is probably the nicest LCD screen I've used on any camera let alone a compact. It's specifications are pretty normal these days- 3" and 920K dots. But what the specs don't tell you is that this screen is covered by a tempered glass sheet that has layers of anti glare resistant technology built into it. The contrast is a wide gamut type and the refresh rate is stunning.

This LCD is a beauty. Probably the best 3" screen I've ever used. Out in the sun, I had no issues viewing this screen even with the brightness turned all the way down to save a bit of battery life. That's saying something right there. But lets go back a bit. This LCD is a *glass covered screen*. That means that you don't have to fiddle with screen protectors (extra \$ and hassle) that typically *ruin the glare resistance* or clarity of your screen, nor do you have to worry nearly as much about scratching it. Not having to be so careful about scratching a screen is a real liberating feeling, let me tell you.

CANON G15 B&H DEAL

Canon G15 Review: G15's Neat Tricks

Step Zoom Feature- This feature is one of the best new features about the G15 in my opinion. This feature will cycle through set focal lengths using either the front control wheel or the main control wheel on the back of the camera (you can assign it in the set control dial/wheel function screen). Focal lengths of 28, 35, 50, 85, 100, and 140mm are available. I have it assigned to the front control wheel.

When I use DSLR's I like to use prime lenses, especially the classic focal lengths. Many of the set focal lengths in the G15 are indeed that. 140mm is a bit odd, but it's close enough to 135mm anyways (which would be my preference). So this is something I use often and really liked on some of my older Ricoh cameras, and now the G's have it.

I much prefer knowing the equivalent focal length prior to pressing the shutter, than guessing, and reviewing it after. Plus, I like a nice clean focal length, not half lengths etc. And, to boot, the G15 remembers the last focal length you were at when you turned off the camera. So if you like to use one focal length for a set amount of time during the day, it will automatically go to that focal length after you turn the camera back on. That's slick.

And yet another slick mention on the feature is that the G15 remembers how many clicks of the wheel you make when you turn the wheel. So if you want to go from wide to full tele fast, just run your finger across either wheel and walla, it will go all the way to the end (just be sure you do enough clicks, a little practice and its real easy to do). This also means that you can compose with the G15 to your eye, count the clicks you make with the front or rear wheel, and you'll know (by memory) what focal length you'll be using if you start from the full wide or full tele side.

I highly recommend G15 users to use this feature and get used to it.

Handheld Night Scene- Although this feature is primarily targeted for low light shooting, you can absolutely use it in bright day light too. This feature takes three shots at the same exposure, stacks them, and auto aligns them for less overall image noise and detail gain. If you think of noise as the holes in swiss cheese, stacking 3 together will give you less holes to look through than a single slice. Since noise is random (just like holes in swiss cheese) stacking 3 images means more noise holes are plugged with detail from each additional shot.

The camera seems to choose the largest aperture at all light levels that it can. In bright light, it will use the lowest ISO value as a priority, and only reduce aperture size if the correct exposure cannot be reached even with the maximum shutter speed value. I like that way of programming, even though I'd prefer full manual control of that feature instead. This means that I can shoot daylight shot Jpegs that will show more fine detail, less noise, and better color retention because I'm using 3 shots instead of just one Jpeg stacked together. Overall, image quality is improved no matter what ISO level. Jpeg shooters, give it a shot.

The only caveat is that you have no control over the Jpeg output. Even if you use the custom color option for Jpeg shooting in other modes, it won't revert to those settings for this mode. But I must warn you to not write this feature off based on that alone. Despite being an auto mode, the results are still quite good and the camera will go as high as ISO 6400 in the lowest levels of light! You do however at least have control over the exposure value, but not the aperture or any other settings bar using the self timer. Other good news is that the images are at full 12mp resolution, not the reduced resolution the G12 had for higher than ISO 3200 values. The auto aligning seems very forgiving for handshake too, I had no issue shooting at 1/5th of a second hand held with zero blur. Not too shabby.

CANON G15 B&H DEAL

Canon G15 Review: Battery and Battery Life

The G15 is equipped with a new NB-10L battery that gives 920mAh of power. This is less than the G10-12's battery which was the NB-7L battery which gives 1050mAh of power. Reducing the size of the battery may not have been necessary, but, allowed the G15 to be slimmer in the grip area along with the rest of the body compared to the G12. Although the battery is rated for less power, one has to realize that this G camera can still whoop all over other compacts in battery life, and many mirrorless models.

There's little real life loss in battery power compared to the G12- an estimated 30-50 shots less per charge. So, I'm not going to make a fuss about that side of the debate. However, if like me, you have two different G series cameras, that means you'll need two different chargers. I'd like to have seen Canon allow the older charger to be used for the G15, but there you have it.

[CANON G15 B&H DEAL](#)

Canon G15 Review: That New Lens

A 28-140mm equivalent focal length can cover a lot of photographic situations, especially when you have a large or "bright" aperture.

Canon knows this too. But to do all of those tasks with exceptional image quality is yet another challenge. When Canon decided to change the lens design yet again for the G series camera, they had to be sure that the optical quality would at least compare to its predecessor. The G12, G11, and G10 had set the precedence for optical quality in a compact package, so the G15's new lens had to be good or else face a very scrutinizing audience.



Good news G fans, the G15's new lens not only is a full stop and one third brighter through the entire range, this lens is slightly sharper and slightly better than its predecessor. Mind you I can only compare similar aperture and focal settings with the G15 vs the G12 to come to this conclusion, since the G12 does not have a bright f/1.8 wide angle nor an f2.8 telephoto. Given the same aperture settings the G15 has better control over several different distortions- barrel, pincushion, chromatic aberrations, flare, ghosting, etc.

Now that is quite a feat considering the predecessor's lens was already quite excellent. In fact, I rather expected a slight decrease in overall quality considering the optical advantage of the brighter aperture. None doing however, which is welcome news to say the least.

Further, the G15 allows closer focusing than the G12 did through most of the range bar wide angle. All of the middle focal lengths from about 35-120mm allow even closer focusing than the G12 did. This means that you have more control over background blur, and greater magnification for much of the range. So the story doesn't simply end with the fact that this new lens is just brighter and faster.

[CANON G15 B&H DEAL](#)

Canon G15 Review: Summarized Comparisons

How does the G15 compare against some of its closest rivals, predecessors, and relatives? The below quick comparisons help answer that question for the camera shopper. I've put together a nice gain's and losses list compared to other G cameras and a similar competitor from another brand.

Compared to the G10



- **Losses-** Tethering, dedicated sound recorder abilities, the CCD *fingerprint* output, a dedicated ISO dial, some nominal resolution advantages at base ISO, better positioning of the AEL button, more shortcut button settings, ISO range from 1-15 second exposures (only ISO 80 available), and the angled control buttons.

- Gains- A much faster/brighter lens, more depth of field control, greater EV range on dial, step zoom feature, better noise control from the sensor, much better video, CMOS sensor benefits, better macro capability (improved magnification through the first 3/4ths of the focal range), faster overall performance, a glass LCD screen cover with better viewing angles and less glare, an LCD with more resolution, lighter and smaller body with no sacrifice in build quality, a much greater ISO range, durable textured finish, front command dial, pop up style flash, zoom step mode, more custom settings on controls, NR control for higher ISO settings, X-Fine Jpegs, and other software based features (there is a list of them).

Compared to the G12



- Loses- An articulated screen, the CCD *fingerprint* output, better positioning of the AEL button, dedicated ISO dial, more shortcut button settings, ISO range from 1-15 second exposures (only ISO 80 available), and angled control buttons.
- Gains- A much faster/brighter lens, more depth of field control, greater EV range on dial, step zoom feature, better noise control from the sensor, better video, CMOS sensor benefits, better macro capability (improved magnification through the first 3/4ths of the focal range), faster overall performance, a glass LCD screen cover with better viewing angles and less glare, better macro capability (improved magnification through the first 3/4ths of the focal range), an LCD with more resolution and size advantage, lighter and smaller body with even better build quality, a greater ISO range, pop up style flash, zoom step mode, more custom settings on controls, NR control for higher ISO settings, X-Fine Jpegs, and other newer software based features (there is a list of them).

Compared to the G1X



- Loses- The big sensor with it's nominal resolution advantage, and a bit of low light performance (when ISO's and aperture values are compared equally only), ISO range from 1-15 second exposures (only ISO 80 available), dedicated ISO dial. Also loses the articulated screen.
- Gains- A much faster/brighter lens, better depth of field control in macro shooting, step zoom feature, much lower price (Initial MSRP), massively better macro performance, light years faster autofocus, automatic lens cover, much faster overall performance, a glass LCD screen cover with better viewing angles and less glare, and an LCD with more resolution and size advantage, lighter and smaller body with even better build quality, high speed 10fps shooting mode.

Compared to the Fuji X10



- Loses- Clarity and magnification of the optical viewfinder, bigger 2/3" sensor, better Jpeg output and control, and Fuji unique modes and film simulations (low light EXR 6mp mode and Fuji film simulations to be precise).
- Gains- Battery life, step zoom feature, lower price, higher nominal ISO range (not relegated to Jpeg only over ISO 3200), better grip, better handling, better ergonomics, smaller and lighter size, brighter lens with greater overall range, better macro capability and depth of field control, much faster overall operation, much better sorted menu system, better use of the live histogram, light years better manual focusing mode, and overall- just a more refined tried and true and balanced product in use. The X10 isn't.

CANON G15 B&H DEAL

Canon G15 Review- What Makes it Great?

That is the question isn't it? When buying a camera, amongst so many others, you want to know what stands out about it and why you should buy it. Well, with the G15 there are several things about it that make it a great camera choice. And remember while some

manufacturers may have many of the same specifications or features, or even have others, its not necessarily going to make the camera as good or better. How features are implemented, how quickly and intuitively they can be used and - how accessible they are, makes just as much of a difference as having them in the first place. Some cameras might have one or two features that "beat" the G15, but none of them implement the entire feature package better than the G15 does.

Here is my list on why the G15 is a "great" camera:

- A fast lens with an excellent all purpose range and macro capabilities that gives you a suprising amount of photographic creativity and control for a compact camera
- Effective optical image stabilization (I shoot hand held easily down to 1/5th second with no blur)
- A dual axis electronic level that you can calibrate (excellent option Canon)
- Good low light image quality by any standard
- Superb build quality
- Even better ergonomics
- Fast external controls
- Quick autofocus
- Raw capable
- Excellent battery life (although not as good as the G10-12 cameras)
- Included AF assist lamp
- Excellent glass covered LCD screen
- Pocketable (just)
- Affordable price
- Comfortable spacious grip on the front and rear
- Optical viewfinder when you need one
- Quick start up and shut down, and overall operation (scrolling, accessing menus, in camera development, etc.)
- Hot shoe and fast sync speeds with external flashes
- Mostly customizable menu system
- Two custom menu settings on the mode dial (use them!)
- Addition of XFine Jpegs, and some NR control of high ISO shots (low to high)

Canon G15 Review: Image Quality

After shooting almost primarily with the G15 for quite some time I've got some things to say about it's image quality. The 1 1/7" sized sensor in the G15 is Canon's latest, and most say it's the same as the S100 (which I also have). However, although the sensor *may* be the same as the S100's, Canon's definitely done some tweaking to the image output from it.

How to get the best Jpegs

Color- Set creative style to custom, and back off sharpening all the way- you can sharpen later and get better results than what come from the camera. This works for all ISO's too. Personally my limit on using out of camera Jpegs stops at ISO 5000, but I'll use up to 10,000 for raw images. That's a whole stop difference, simply because I think the quality is there in the raw files. However, very decent results are possible at 5,000 ISO if you expose properly and sharpen later (at least by my standards).



OOC Jpeg, ISO 5000

Hi-ISO Black and White- Shoot creative style b/w mode and put the G15 on auto i contrast. This will give you the full range of ISO available (as 200% and 400% do not) and will help to prevent shadows from blocking up and highlights blowing out. It's really noticeable in the shadows (saving detail and less blocking). I wish Canon allowed contrast/sharpness adjustments for this style, but they only allow that in the custom creative menu. At least they offer 3 ranges of noise control, and I recommend setting the G15 to low.





OOC Jpeg, b/w, a little flat on contrast but noise is controlled well. Mind boggling that Canon don't allow the user to choose contrast or sharpness on b/w images out of camera for Jpegs.

Overall Image Quality Assessment

Excellent, for a compact. I much prefer the G15's bright glass with a versatile focal length to a compact with larger sensor, slow lens, and a more confined focal length. Out in the real world, the G15 performs excellent and leaves little to desire. It's base ISO has a bit more noise than I think it should, but that's just being nit picky. I'd have no issues making big 13x19" prints from raw files on this camera. Both optically and digitally, this camera has excellent IQ even into the higher ISO settings. ISO 3200 is completely useable up to 11x14" quite often which is amazing to me. And if you don't mind grain in your images (I don't) up to 6,400 at that print size. ISO 12,800 can be coaxed into a nice 5x7 at the very least, or, an 8x10 in a pinch.

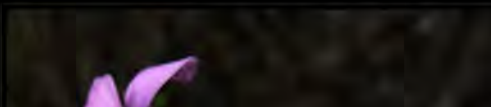


I've seen small sensors just get better and better over the years and the G15's sensor is all that. It's probably the best sensor I've seen at this size when you look at the entire ISO range, and it even has some slightly larger sensors beat as well (for example, the X10's which only goes up to 3200 ISO in raw). I don't hesitate to bring the G15 with me anywhere for fear of quality of images.



Full telephoto f/5, great sharpness, a hint of noise at base ISO

I know its capabilities and to be sure they don't stand up to a good DSLR. But, they do get close enough and I know how to shoot with the G15 to ensure I can come back with a nice big detailed print that most people couldn't tell apart from a DSLR on a print. That, is ultimately what is important.





ISO 80, good bokeh and good macro performance (could have got closer)

When I want professional level image quality in an ultra lightweight well handling package I can bring anywhere, no doubt I'll reach for the G15. From landscapes to macro to portraits, the G15 offers a lot of camera, a lot of versatility, and a lot of image quality for its price and small sensor. It's simply excellent bang for your buck- no questions asked.

CANON G15 B&H DEAL

Canon G15 Review- Conclusion



Canon brings the G series back to some of its roots, and also (just) back into your pocket. Although it's not an ultracompact by any means, the G15 is slim enough to fit into a coat pocket, big shirt pocket, or even loose jeans pockets in a pinch. This makes it a bit more portable than recent G series cameras, more like the G7 which basically was the grandfather of all the modern G series camera designs. Overall I find the new size and weight an excellent overall compromise in design. There is little if any negative impact by being smaller and lighter in this case when compared to say, the G10-G12 cameras.

What a fun camera. It sits next to me as I type, begging me to go shoot with it, instead of write about it. It's texture, overall shape and design, excellent front and rear grip, glass screen, excellent speedy performance, and great image quality just beg you to pick it up and have fun with it. And when you do, you're treated to the most solid G series camera I've ever had my hands on. The front and back panels are metal (G11/G12 the rear was plastic) again, and thick too. This is a dense camera that feels like a single carved block of magnesium alloy- no kidding or exaggerating about that.

And I'll ramble more about the build quality. All of the buttons, dials, switches, pop ups, and doors feel perfect. There's a machined quality about the whole camera. The dials and buttons have just the right amount of tension and feedback before the click. Even the rear control dial is improved too. The texture of the whole camera feels like you paid about \$2,000.00 for it. It's thick, durable, and a non slip type, but not too gritty.. It's quite excellent. Even the shutter release has more surface area and is the soft touch type and feels quite nice on the fingertip.

Overall this is an excellent pocket camera that continues to refine as the line ages and progresses. I applaud Canon's ability to continue to just make a great product even better. There absolutely no reasons why I wouldn't recommend the G15 to anyone, let alone those looking for a compact as a back up to a DSLR.

Be safe and happy shooting,

-Carl Garrard

Canon G15: Pros

- Redesigned lens adds several photographic advantages (not just low light)
- Fastest operating G series camera yet
- Arguably the best built G series camera to date (glass screen and full metal panels; dense feel, excellent finish)
- Addition of XFine Jpegs
- Addition of NR control for high ISO shots (assuming 1600 and above, but no NR off)
- Largest and most detailed 3" screen on any compact to date (plus with a glass cover, but see cons)
- 2 Customizable settings on the mode dial (use them!), fast access to other settings you use often (things like ND filter, b/w photos, etc...)
- High ISO output is the best of all the small sensors (1 1/7" and smaller)
- Great video
- Good all day shooting battery life
- Excellent handling and controls
- Comfortable to hold, stable and secure
- Just flat out the overall package you want in a serious compact

Canon G15: Cons

- Slightly lower battery life than its predecessors since the G7

- Removal of Illuminated Dial Points
- Lack of articulated screen (in favor of a larger more detailed one w/glass cover however)
- Only ISO 80 available at exposures 1 second or less (same as 5100)
- Low ISO output not as clean as I'd like to see in the blue channel (giving way to better high ISO however)
- Lack of noise reduction "off" setting for Jpegs

POSTED BY C.GARRARD AT 8:02 PM

11 COMMENTS:

 Nick said...

A very informative read. It's also the first place I've seen mention of this "step zoom" feature - which is pretty cool. Thanks for the great review!

FEBRUARY 8, 2013 AT 3:38 PM

 Von said....

yes, great compact camera indeed. and I have to ask, what are your thoughts on getting an lens converters and adapters (wide .45 converter for even wider landscape shots) for it? if there's any, what would you recommend that does the job well? thanks.

FEBRUARY 10, 2013 AT 11:04 PM

 C.GARRARD said...

I like the filter adapter for the G15 from Canon. I had one for the G12 and thought it was extremely well engineered. For filters and some auxillary lenses, it's excellent!

Thanks btw Nick, glad you found it helpful!

FEBRUARY 16, 2013 AT 9:42 PM

 Russell Cederberg said...

thanks for another great review Carl - I sold my G12 on Ebay yesterday and immediately picked up a G15. This will be my third G camera and I have loved them all. They literally go everywhere with me which has afforded me getting MANY great photos that otherwise would have been lost.

FEBRUARY 18, 2013 AT 6:38 AM

 Anonymous said...

This was a very enjoyable review. However I do take issue when you compared it to the G1X. The G1X smokes the G15 in all areas except macro abilities and yes, the focus time is a little slower (but not by much and not as noticable as people may think). Take some low light pictures with the G15 and do the same with the G1X and there's no comparison.

Anyway, nice review.

FEBRUARY 21, 2013 AT 7:17 AM

 C.GARRARD said...

Thank you.

The G15 also has a faster lens, lower price, lower weight, smaller size, faster auto focus no matter what mode, auto lens cap, better battery life, better lcd screen and glass cover, and..... So those reasons, plus the ones you mentioned, are reasons why I like it more than the G1X.

The G1X is a nice camera too, don't get me wrong, but the G15 is my personal preference.

C

FEBRUARY 21, 2013 AT 6:01 PM

 Anonymous said...

Almost bought the G15 but in the end bought the G1X. While both cameras produce great images, the G1X stands out with it's IQ especially when the lights go down. If Canon updates the G1X with an G2X to have the focus/operating speed of the G15 I'll be on an preorder list. But for now I'm happy with the shortcomings of the G1X as long as it pumps out high quality images.

Great review BTW. Thanks!

MARCH 3, 2013 AT 9:12 PM

 kristian von hocson said...

thanks Carl, me too, G15 is my personal preference. G1X has only bigger sensor, makes good IQ, but the rest is not a winner. with G15 faster lens and focal range, im OK with it. sad thing though, canon could have put a bigger sensor in g15 then its a win-win situation. but that's how they do business. anyway.. whatever fits your taste guys. have a nice day.

MARCH 6, 2013 AT 10:32 AM

 Anonymous said...

Very thorough and informative review. But your initial statement of likening this camera to a rangefinder baffles me. I've shot film rangefinders, both 35mm and medium format for almost 40 years. And I've been using the Canon Powershot G9 since it first appeared as well as Canon DSLRs for the last 10 years. I've not yet received my G15 but taking the G9 as a close example, I find nothing even

remotely akin to a rangefinder in its handling, feel, or function. By definition, rangefinder implies focusing via an actual rangefinder. The G series has no such rangefinder but rather an almost unusable optical viewfinder. Am I missing something? Thanks for the otherwise really great review.

APRIL 5, 2013 AT 6:14 AM

 C.GARRARD said...

Thank you and you're welcome.

Well I did my best to separate actual range finder cameras from this type of camera by saying "rangefinder styled camera" I don't know how many times in the review, I should go back and count. Styled is the key word there, I've used both real rangefinders and rangefinder styled cameras... and this is styled like one (as are many cameras these days... square minimal traditional styling etc.. lots of external control...).

Hope that helps! I tried very hard to be very clear about that!

Carl

APRIL 5, 2013 AT 4:37 PM

 Anonymous said...

I applaud you for this review!

I had already decided to buy a G15 instead of Nikon's P7700.

Anyways, your review is very useful for someone who is just about to put the hands on this camera. Specially the recommendation to adjust the sharpness all the way down; I've seen in another review that the G15 auto sharpens the JPEGs about 30%.

Can't wait to start shooting with the G15!

Thanks!

Rafael

(from Rio de Janeiro - Brasil)

APRIL 24, 2013 AT 10:11 PM

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