Panasonic

Photo: David Eustace

CHANGING PHOTOGRAPHY
LUMIX G

GH3

G6

GX7

GF6

LUMIX G BROCHURE 2013 | 2014

WWW.PANASONIC.EU

LUMIX G

The Panasonic LUMIX G Experience for tablets available in the iTunes App Store and in Google Play

Available on the
App Store

ANDROID APP ON
Google play

1st **MIRRORLESS**
1st Digital Single Lens Mirrorless

LUMIX G

**SUDDENLY, STUNNING
IMAGES CAN BE ANYWHERE**

CHANGING PHOTOGRAPHY G

Changing Photography

Are you looking for excellent picture quality for those
precious moments?
Do you want a camera that's ready to go at any moment?
Do you want easy access to many functions?
Do you want to change your photography for the better?

Then get LUMIX G – the next-generation camera. The secret
behind LUMIX G is an entirely new camera concept that, for
the first time, offers the high image quality known from DSLR
cameras in a compact, accessible package. This innovation has
been made possible by a revolution: the mirrorless construction
with an equally sophisticated sensor, providing more functiona-
lities than conventional systems, featuring complex mirror box
architecture, can offer. Thanks to this, LUMIX G System Cameras
are perfectly easy to handle, lightweight and packed with a huge
array of features. So what are you waiting for? Find your camera.
Discover your life. And change your photography – just like
widely known professional photographers did on their missions
to change photography with LUMIX G from Panasonic. See their
pictures in this brochure.

Photo: David Eustace, LUMIX G6 with LUMIX G Vario 14–140 at 14mm, 1/200 at F5.6, ISO 400

# Mirrorless Photography –
Discover the Benefits

Photo: David Eustace, LUMIX G6 with LUMIX G VARIO 14-140 at 19mm, 1/800 at F7.1, ISO 400

LUMIX G:
A System Made for the Digital Age

The LUMIX G range of products features one of the first Digital Single Lens Mirrorless (DSLM) systems on the market to set new standards in photography. This innovative technology makes it possible for these compact cameras to deliver an image quality known from heavy DSLR systems – but in a lightweight design. And that's not all: LUMIX G Cameras and Lenses have been completely and newly developed for the digital age – doing away with outdated analogue photography standards. You will notice the difference in your photography every time you press the shutter button.

LUMIX G DSLM System Benefits

- True Preview of all Settings and Effects in the Electronic Viewfinder
- Ultra-Fast Live View Autofocus
- Wide Range of Focus Points – Focusing is Possible Anywhere
- Fast, Continuous AF while Filming
- Silent Shooting
- Digitally Optimised Lenses
- Small and Lightweight System

Learn more about the LUMIX G DSLM System on the following pages!

1st MIRRORLESS
since 2008 1st Digital Single Lens Mirrorless

100% REAL PREVIEW
OF EXPOSURE SETTINGS
AND ADJUSTMENTS

100% Real Preview

Thanks to the bright, high-resolution electronic viewfinder, LUMIX G Cameras can be constructed without the large and heavy mirror box. But the electronic viewfinder (EVF) offers a lot more advantages. What you see through the live viewfinder and on the LCD display is fed directly from the sensor and is exactly what the lens 'sees' too. Compared to a single-lens reflex camera, the EVF offers much more control over the image you are about to take – it shows 100% of the picture and displays all selected effects including white balance, EV correction, filters and recording functions. You see a preview of the picture you are about to take at all times, instead of having to check the effects of your settings only after the picture has been taken!

Advantages of the Electronic Viewfinder

- Always 100% Field of View
- All Effects are Directly Displayed
- Viewfinder Image shows Selected White Balance
- Viewfinder Image shows EV Correction
- All Formats (4:3, 3:2, 1:1, 16:9) are Displayed Correctly
- Details can be Enlarged for Exact Manual Focusing

Intuitive Shooting with Swivel Touch Display

Flexible 7.5cm LCD

Give your movies and photos a new perspective. The LUMIX G Camera models offer you a host of new possibilities with the 270° vertical and 180° horizontal swivel display. This flexibility offers you the freedom to shoot an unusual perspective from a relaxed position – the days of bending over sideways to get a good angle of your child are over. Simply shoot right from your hip as you look down comfortably at the display. The 7.5cm (3-inch) display has a brilliant resolution and 100% field of view, so you can stage your photo perfectly. And when you're done, you can fold the display inwards to prevent it from getting dirty or scratched. Now that's pretty convenient!

270°
180°
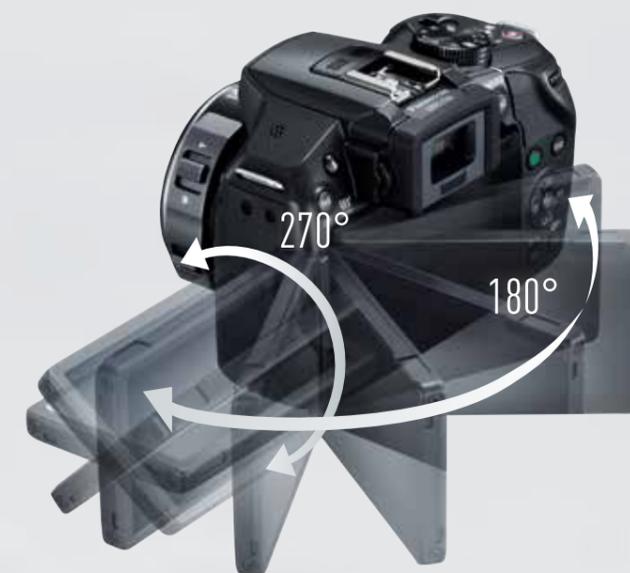
Floor Shot
- Unusual Perspectives
- Perfect for Macro Shots
- Shooting from a Tripod

Central Shot
- Shooting in a Relaxed Position
- Ideal for Shots of Children
- Perfect for Steady Video Recording
- Shooting from a Tripod

Overhead Shot
- Unusual Shots from Above
- Perfect for Shooting, for example, above a Crowd
- Shooting from a Tripod

Easy Touch Operation

The way we see it, using a system camera with various settings and recording options has to be one thing: easy – and thus quick. With this in mind, we allowed our development of the controls on the new LUMIX G Camera models to be inspired by devices with touch screens. The LUMIX screen is more than just a display – with a tap on its surface, it becomes a touchpad! And in this way, you can very quickly focus or zoom in on specific image details.

TOUCH A SUBJECT TO PUT IT IN FOCUS

Intuitive Touch-Control Shooting

Just touch the subject you want to have in focus on the large, high-resolution LCD – the full-area AF immediately puts it in focus. You can even release the shutter with a single touch. Once you touch your subject on the screen, the AF Tracking function will keep it in focus for the perfect shot.

TOUCH THE SCREEN ELSEWHERE AND THE FOCUS SHIFTS

Autofocus –
Works without Limitations

Photo: David Eustace, LUMIX G6 with LUMIX G Vario 14-140 at 21mm, 1/640 at F7.1, ISO 400

Fast, Exact, Flexible

The advanced autofocus system of LUMIX G Cameras overcomes some serious limitations known from conventional single-lens reflex cameras to give you sharper, crisper images every day.

Exact Focusing

Conventional single-lens reflex cameras use a phase detection system for focusing that is often inaccurate due to mechanical limitations, especially with fast lenses or large apertures. The Contrast AF in LUMIX G Cameras delivers high accuracy when shooting, resulting in sharp images even in low light.

With a slower system, you might miss that exciting, split-second moment for a perfect shot.

CONVENTIONAL AF SYSTEM IN LIVE VIEW

LIGHT SPEED AF

Every fraction of a second matters when you want to get a perfect, precisely focused image.

LIGHT SPEED AF

Faster Focusing

LUMIX G Cameras feature an extremely fast autofocus thanks to the high synchronisation speed of lens and sensor. The accuracy and speed of the G System advanced autofocus outperform that of many digital SLRs. When used in Live View mode, the difference is even more dramatic than with conventional SLR cameras, which focus very slowly and show an annoying time lag after shutter release.

Focus Anywhere

With conventional single-lens reflex cameras, focusing is limited to a given number of built-in AF sensors. With a LUMIX G Camera, you can focus anywhere in the picture – even by just touching the screen!
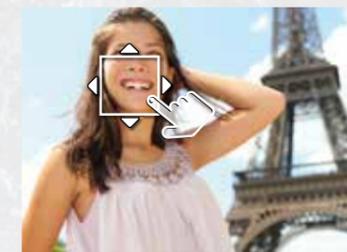
MF MAGNIFIER – THE LUMIX G VIEWFINDER WORKS PERFECTLY
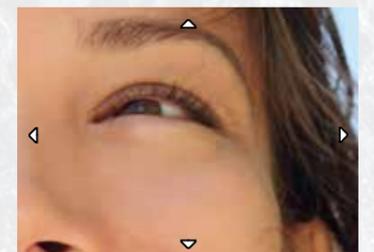
A MAGNIFIED FOCUS AREA ALLOWS FOR MORE EXACT FOCUSING

AF Tracking

Thanks to the AF Tracking function, you can select an object in the picture to be automatically followed by the autofocus. This is especially useful for action shots or filming.

Made for Making Movies

Photo: David Eustace, LUMIX G6 with LUMIX G Vario 14–140 at 286mm, 1/640 at F10, ISO 800

The Superior System for Filming

HD Video Support You may be looking for an excellent photo camera – but did you know that LUMIX G Cameras also are perfect for making professional-quality movies? Like the cameras of professional broadcasting productions, LUMIX G Cameras offer the manual setting of aperture, speed and ISO to give the movie a truly sophisticated look. Too complicated? Then check out the intelligent Auto mode and Face Detection: two great tools to help you create your first video footage. With the dedicated movie button, filming becomes as easy as taking photographs. And the Full HD capabilities of the LUMIX G Cameras make your movies look stunning on the big screen.

Live View Autofocus for Filming
When you try filming with conventional single-lens reflex cameras in Live View mode, you may find the autofocus system to be much too slow to deliver good results. The fast and continuous live view auto-focus on LUMIX G Cameras delivers smooth, sharp video sequences.

LUMIX G Video Functions

- Instant Video Recording via Dedicated Movie Button
- Fast, Continuous Autofocus for Moving Subjects
- Autofocus Tracking of Single Objects
- Built-in Stereo Microphone (microphone input jacks on some models)
- Intuitive and Quick Operation via Touchscreen
- Full HD Resolution with AVCHD, H.264 (.mov) and MP4
- Easy Playback on TV via SD Memory Card or HDMI

Creative Control
Use intuitive control functions and filters to create the stunning images you already know from taking photographs. With the iA Plus mode, you can adjust the defocusing area, exposure compensation and white balance for videos too. You can even use the creative filters when filming!

RETRO   SEPIA   HIGH KEY   HIGH DYNAMIC   EXPRESSIVE

The Panasonic LUMIX G Experience for tablets available in the iTunes App Store and in Google Play

Available on the App Store

ANDROID APP ON Google play

NOW IS THE TIME TO FIND YOUR PERFECT FIT

CHANGING PHOTOGRAPHY G

GH3
Professional Perfection

G6
Ready for Everything

GX7
Enthusiast Masterpiece

GF6
Compact and Capable

LUMIX GH3

Comes with a Movie Camera Inside

If you are dreaming of the best possible tool for creative photography and filming, take a look at the LUMIX GH3. Its weatherproof body and high-end technology deliver perfect, professional results in all conditions.

GH3

COLOUR:

DMC-GH3

The New LUMIX GH3. Professional Perfection

- 16-Megapixel Live MOS Sensor and Venus Engine with ISO 100-12,800
- High-Resolution, Free-Angle Touch OLED LCD and 1.7 Million Dot OLED EVF
- MP4/AVCHD Progressive 50p Full HD Video and Many Connectivity Features
- New Shooting Opportunities thanks to Wi-Fi Connectivity and Silent Shooting
- 20fps High-Speed Shooting (6fps in Full Resolution)
- Solid Magnesium Body with Sealing Against Dust and Moisture

Wi-Fi

Get Connected

The Wi-Fi capability of the GH3 will change the way you control your camera and view or share photos and movies. Use the remote shutter release, including Live View, while shooting. Check sharpness and composition of your pictures and add geotagging using a smart device. View pictures on a large TV screen easily or share on your favourite social networks with just a swipe. Convenient storing of your files on a computer or in the Panasonic Cloud Service is also part of the Wi-Fi functionality.

Full HD Filming

High-Resolution Movies

The Panasonic GH3 is not only a fantastic still photo camera, but also a proven tool for professional filmmaking. The interchangeable lenses, the control options, the external microphone jack, in addition to the built-in stereo microphone and legendary Full HD movie recording quality of the GH3, will take your filming to a completely new level. The GH3 is the perfect platform for movie-makers looking for an easily to-use, versatile system that creates stunning cinematic images.

Weather Sealing

Safe in Dust or Rain

There's no longer any need to worry about your camera in demanding environments. The GH3 comes with an all-weather seal that protects its buttons and joints from moisture and dust. The 12-35mm and 35-100mm zoom lenses are also sealed, providing the perfect choice for a photography kit that is as ready as you are to get shooting – rain or shine, whatever environment you find yourself in.

LUMIX G6

Find Your Creativity

It's good to have a lot of options at hand: a high-resolution viewfinder, a swivel display, intelligent Auto functions – and lots of sophisticated settings. The LUMIX G6 offers everything you need to take stunning photographs.

Live Viewfinder

OLED Live Viewfinder

The large, bright 1440K OLED live viewfinder offers excellent colour reproduction and a fantastic contrast ratio for outstanding view-ability. The time lag typical for older electronic displays is hardly noticeable with the G6, and the image output between the LVF and the rear monitor is switched automatically thanks to a built-in eye sensor with adjustable sensitivity. The LVF allows you to control your images in real-time and stunning quality.

Silent Shutter

Silent Shooting

Because of their clapping mirrors, many advanced camera systems have a distinctive sound at shutter release. But in many circumstances, like when shooting in a museum or during a concert, this noise can be disturbing. With the LUMIX G6, you can finally take advantage of all those photo opportunities. Just set the shutter release to `electronic`, turn off the sounds and the camera will be completely silent while shooting. The extremely silent AF system of the LUMIX G Lenses also supports this discrete shooting style.

Video

Full HD

The DMC-G6 records stunningly smooth, high-resolution 50p Full HD videos (1920 x 1080) in the AVCHD progressive (MPEG-4/H.264) format. It also supports the 1080/24p Native mode, with 24Mbps in the AVCHD format, to provide an impressive afterimage to your footage. The 50p Full HD video can also be recorded in the MP4 format at 28Mbps – for playback directly on your PC or other portable devices without the need for converting.

The New LUMIX G6. Ready for Everything

- 16-Megapixel Live MOS Sensor and Improved Venus Engine
- Fast, Accurate Autofocus also in Low Light (up to −3EV)
- High-Resolution, Free-Angle Touch LCD Display
- Video Full HD 50p/24p
- Easy Connectivity via Wi-Fi and NFC
- OLED 1440K-Dot Equivalent Live Viewfinder

G6

AVAILABLE COLOURS:

DMC-G6

LUMIX GX7

The Photographer's Camera

Created for the demanding photographer, with an image sensor that captures the finest details and a high-performance engine to minimise noise. The LUMIX GX7 combines a compact, flat design, easy-to-access manual controls and a tiltable live viewfinder that gives you the freedom to create new angles in photography.

GX7

AVAILABLE COLOURS:

The LUMIX GX7. High-Quality DSLM Camera

- Newly Developed 16-Mepapixel Live MOS Sensor and Venus Engine
- Super-Fast Autofocus of 0.06s
- Unique Shooting with Tiltable 2760K-Dot EVF and Tiltable 1040K-Dot Monitor
- Super-Fast 1/8000s Shutter Speed
- Manual Focus Control including Magnification and Peaking
- In-Body Stabilisation and Support for In-Lens Stabilisation (O.I.S.)

DMC-GX7

Usability

90-Degree Tiltable Live Viewfinder

The new DMC-GX7 offers a previously unknown amount of freedom and flexibility when used in the Viewfinder mode. It not only features a tiltable 3.0-inch touch-control rear monitor for controlling images even in unconventional camera angles, but also a 90° tiltable live viewfinder with 2760K resolution.

The camera body also features a built-in optical image stabiliser that is as effective as the MEGA O.I.S. system which allows you to use third-party lenses or older lenses with full image stabilisation.

Autofocus Performance

AF System

The Contrast AF system of the DMC-GX7 reaches a new dimension in speed and accuracy by exchanging digital signals between the camera and the lens at up to 240 fps. A variety of extensive AF functions, including Low Light AF, Pin-Point AF and One-Shot AF (even by touch screen), further enhance the usability and versatility of the camera, opening up new and exciting imaging options.

System Speed

Light Speed AF

The DMC-GX7 is the perfect camera for fast, accurate shooting in any situation. The Light Speed AF outperforms most other autofocus systems available. The camera delivers a high-speed burst shooting rate of 5fps in 16-megapixel resolution and up to 40fps using the electronic shutter. AF Tracking enables consecutive shooting of moving subjects at 4.2fps. Start-up time of the DMC-GX7 is only 0.5 seconds – so you are ready for any good picture in an instant.

LUMIX GF6

A Small Tool for Great Images

Stunningly slim and compact: capture every beautiful moment with the smallest and lightest LUMIX G Camera ever, without making any compromises in picture quality or versatility. The GF6 is the perfect combination of a capable camera system and compact size.

Wi-Fi and NFC

Sharing Pictures

With Near Field Communication (NFC) technology, it is extremely easy and fast to set up the Wi-Fi connection. Simply bring the camera and your smartphone or tablet together – they will directly connect wirelessly, without any complicated authorisation procedures. Once they are connected, you can use your smart device for remote shooting, viewing and sharing pictures.

180º Tiltable Monitor

Higher Visibility

The large 1040K-dot high-resolution monitor tilts up to 180° (up and also down for difficult overhead shots). The touch panel is directly integrated into the LCD without air layers in between. So the reflection of external light is dramatically reduced. Together with the increased resolution and improved colour reproduction, the monitor on the DMC-GF6 ensures high visibility under bright conditions. Plus, attenuation of transmitting backlight is minimised to achieve a wide viewing angle while reducing power consumption.

Quick Response and Operation

Capture Everything

The DMC-GF6 boasts even higher response. It takes only approx. 0.5 seconds to shoot after start-up.[1] Also, the Light Speed AF makes it possible to capture fast-moving subjects clearly. Combined with the full-area Touch AF, it is possible to set the focus on any point in the field of view, enabling quick and intuitive focusing operation.

[1] With H-FS1442A, measurement is based on CIPA standard.

The LUMIX GF6. Compact and Capable

- Large 16-Megapixel Live MOS Sensor
- Super-Fast Autofocus and Start-up
- 180º 2-Way Tiltable LCD Touch Display
- Full HD AVCHD Video with 25p
- Easy Connectivity via Wi-Fi and NFC
- 19 Creative Filters

GF6

AVAILABLE COLOURS:

DMC-GF6

Lenses Made for the Digital Age

We always want to hold on to those perfect moments in our life. Thanks to the newest range of lenses from Panasonic, this has become easier than ever. When special moments suddenly occur, you can quickly and easily capture them with LUMIX G Cameras. Thanks to the Micro Four Thirds Standard, our small lenses are able to maintain the same luminosity and quality of larger lenses – so that you aren't weighed down but still have all the freedom and opportunities as enjoyed by professionals.

Panasonic Lens Technology

With LUMIX G, everyone finds what they're looking for. A range of 19 lenses means you can choose from traditional LEICA DG lenses, our new and incredibly compact LUMIX G 'X' lenses or additional standard lenses – so you can perfectly meet your photographic needs.

LEICA DG Lenses

Anyone who wants top quality opts for LEICA. With special multi-coated surfaces, these aspheric lenses meet the high expectations of the traditional LEICA Camera AG corporation. The complex structure of the lenses enables brilliant acuity and also prevents distortions in wide-angle shots – so lines are displayed exactly as you see them in real life. That means superb images without reflection or backscatter.

LUMIX G Lenses

LUMIX G Lenses make things easy for you. Has the 'X' caught your attention yet? It stands for a new product line, one that is characterised by innovative digital technology, high optical quality and pioneering Nano Surface coated lenses. That makes an 'X' lens the perfect team player – and your perfect companion. Whether macro, wide-angle or fisheye, LUMIX G Lenses create great scope – without taking up too much space themselves.

H-F008	H-FT012E
8mm F3.5	12mm F12

LUMIX G Fisheye · LUMIX G 3D Photo

H-F007014	H-H014	H-HS12035
7–14mm F4.0	14mm F2.5	12–35 mm F2.8

LUMIX G Wide-Angle Zoom · LUMIX X Standard Zoom

H-FS1442A	H-PS14042	H-FS014045
14–42mm F3.5-5.6	14–42mm F3.5-5.6	14–45mm F3.5-5.6

LUMIX G Standard Zoom and LUMIX X Retractable Power Zoom

H-FS14140	H-VS014140	H-FS45150	H-HS35100
14–140mm F3.5-5.6	14–140mm F4.0-5.8	45–140 mm F4-5.6	35–100 mm F2.8

LUMIX G HD Movie Zoom

H-H020A	H-X025E
20mm F1.7	25mm F1.4

LUMIX G Pancake · LEICA DG SUMMILUX

H-PS45175	H-FS045200	H-FS100300
45–175mm F4.0-5.6	45–200mm F4.0-5.6	100–300mm F4.0-5.6

LUMIX X Telephoto Power Zoom · LUMIX G (Super-)Telephoto Zoom

H-ES045
45mm F2.8

LEICA DG MACRO ELMARIT Lens

See the Details

Nano Surface Coating

Have you had enough of annoying light reflections ruining your photos? With Panasonic Nano Surface coating technology, we have applied a very thin film featuring an ultra-fine nano structure and minimum refraction index to our lenses – greatly reducing reflection and eliminating ghost images. That means you'll enjoy clear images with sharp details, even when you shoot bright subjects or in the dark.

CONVENTIONAL COATING   NANO SURFACE COATING
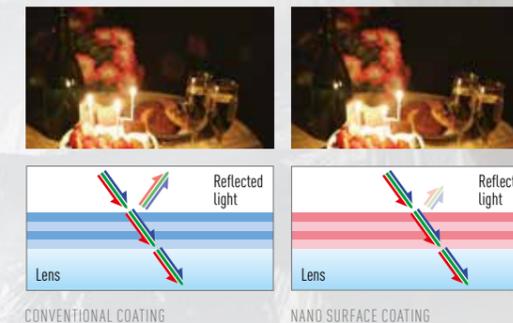
Power Zoom Lenses

The new LUMIX G Power Zoom Lenses are way ahead of their time. The pancake and telephoto power zoom lenses are available as fully automatic, built-in-motor zooms. The telephoto also doubles as a manual zoom – and as the zoom is adjusted at the lens, it works easily. This results in a visible improvement in zooming, also offering advantages for filming. For example, you can determine the zoom speed to precisely capture your subjects even with slow zoom – or use the gradual zoom function to seamlessly approach the subject. Focus can also be quickly adjusted using a lever (Pancake Power Zoom) or focus ring (Tele Power Zoom). And all this can be controlled comfortably from the camera display as well. One thing's for sure: with the power zoom, getting up close to your subject – even when filming – will never again be nerve-wracking.

Multi-Coating

The multi-coating process works to seal surfaces. During a multiple lamination process, nano structures are applied to lenses to prevent shadows and glare from appearing in photos. This is especially good for lenses with a large curvature (e.g. wide-angle and fisheye) because their shape means they are exposed to extreme lighting angles. The multi-coated lens surface acts as a shield to prevent excess light from getting in – resulting in exquisitely sharp images of the highest quality.

WITHOUT MULTI-COATING   WITH MULTI-COATING

Aspheric Lenses

Panasonic lenses are extremely small and yet offer superb image quality. A single aspheric lens has the same effect as several spherical lenses – which means they are lighter and take up less space. Panasonic has perfected this costly manufacturing process – a venture rarely undertaken by other lens manufacturers – and also applies it to a wide range of lenses. This process not only increases the magnifying capability of the lenses, but typical issues that occur in the production of spherical lenses, such as contortions, are also avoided – ensuring that all your shots are simply magnificent.

ASPHERIC LENSES   SPHERICAL LENSES
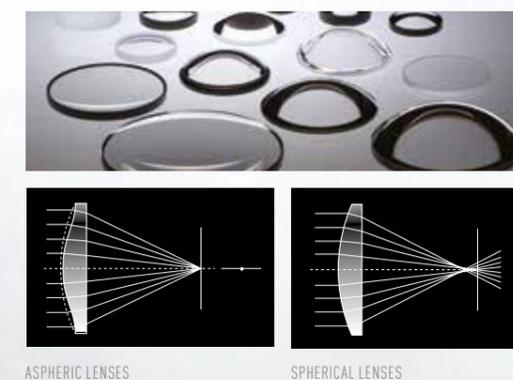
Stepping Motor Focusing

LUMIX G utilises stepping motor technology for focusing. Stepping motors offer a quick response without the need for time-consuming feedback control, which linear or ultrasound motors used in most conventional DSLR lenses require. The AF motors used in the LUMIX G System are specially designed to work fast and seamlessly with the advanced Contrast AF. The stepping motor technology allows for lighter, smaller lenses and for faster, more precise and silent operation.

Photo: David Eustace, LUMIX G6 with LUMIX G Vario 14-140 at 14mm, 1/640 at F8, ISO 400

NO MORE LIMITS:
A LENS RANGE FOR ALL STYLES

CHANGING PHOTOGRAPHY G

Standard Zoom

HS12035 PS14042   FS014042   FS1442   FS014045 FS14140
PAGE 34-35 ▸   PAGE 36-38 ▸

Wide Zoom

F007014
PAGE 28 ▸

Video Zoom

VS014140
PAGE 29 ▸

Fixed Focal Length

X025   H020A   H014   ES045
PAGE 39-40 ▸   PAGE 41-42 ▸

Tele Zoom

HS35100 FS45150   PS45175 FS045200 FS100300
PAGE 30-31 ▸   PAGE 32-33 ▸

Special Lenses

F008   FT012
PAGE 43 ▸

The Panasonic LUMIX G Experience for tablets available in the iTunes App Store and in Google Play

Photo: David Eustace, LUMIX G6 with LUMIX G Vario 14-140 at 140mm, 1/40 at F5.6, ISO 400

H-F007014

H-VS014140

Wide Zoom

LUMIX G Wide-Angle Zoom Lens, 7–14mm

- 7–14mm Focal Length (14–28mm full-frame equivalent)
- F4.0 Max. Aperture
- Length: 83mm, Weight: 300g
- 25cm Minimum Focus Distance
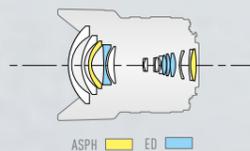
Video Zoom

LUMIX G HD Movie Zoom Lens, 14–140mm

- 14–140mm Focal Length (28–280mm full-frame equivalent)
- F4–5.8 Max. Aperture
- MEGA O.I.S.
- Length: 84mm, Weight: 460g
- 62mm Filter Size

ASPH ED

ASPH ED

H-HS35100

MICRO
FourThirds

POWER
O.I.S.

X

HD
Video Support

H-FS45150

MICRO
FourThirds

MEGA
O.I.S.

HD
Video Support
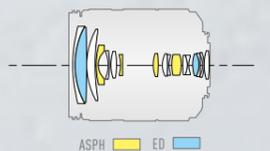
Telephoto Zoom

LUMIX G Telephoto Zoom Lens, 35–100mm

- 35–100mm Focal Length (70–200mm full-frame equivalent)
- F2.8 Max. Aperture
- POWER O.I.S. Image Stabilisation
- Length: 99.9mm, Weight: 360g
- 58mm Filter Size
- Sealed Against Dust and Moisture

UED ■ ED ▭
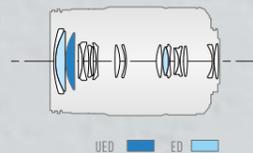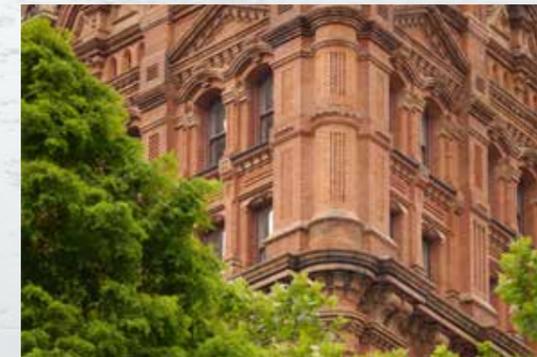
Telephoto Zoom

LUMIX G Telephoto Zoom Lens, 45–150mm

- 45–150mm Focal Length (90–300mm full-frame equivalent)
- F4–5.6 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 73mm, Weight: 200g
- 52mm Filter Size

ASPH ▭ UHR ▭

H-FS100300

H-PS45175
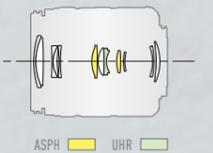
H-FS045200

45-175
HD
0.9m/3.0ft~∞

45-200

100-300
1.5m/4.6ft~∞

Telephoto Zoom

LUMIX X Telephoto Power Zoom Lens, 45–175mm

- 45–175mm Focal Length (90–350mm full-frame equivalent) with Motor Zoom
- F4–5.6 Max. Aperture
- POWER O.I.S. Image Stabilisation
- Length: 90mm, Weight: 210g
- 46mm Filter Size

ASPH ED
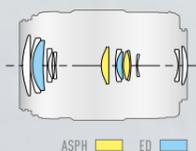
LUMIX G Tele Zoom Lens, 45–200mm

- 45–200mm Focal Length (90–400mm full-frame-equivalent)
- F4–5.6 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 100mm, Weight: 380g
- 52mm Filter Size

ED
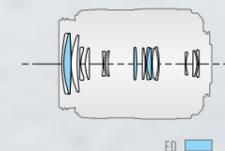
LUMIX G Super Tele Zoom Lens, 100–300mm

- 100–300mm Focal Length (200–600mm full-frame equivalent)
- F4–5.6 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 126mm, Weight: 520g
- 67mm Filter Size

ED
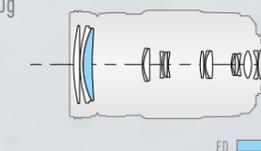
H-HS12035

H-PS014042

Standard Zoom

Standard Zoom

LUMIX X Telephoto Zoom Lens, 12–35mm

- 12–35mm Focal Length (24–70mm full-frame equivalent) with Motor Zoom
- F2.8 Max. Aperture
- POWER O.I.S. Image Stabilisation
- Length: 90mm, Weight: 305g
- 58mm Filter Size
- Sealed Against Dust and Moisture

ASPH   UHR   UED
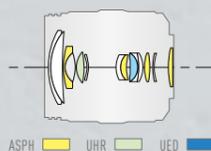
LUMIX X Retractable Power Zoom Lens, 14–42mm

- 14–42mm Focal Length (28–84mm full-frame equivalent) with Motor Zoom
- F3.5–5.6 Max. Aperture
- POWER O.I.S. Image Stabilisation
- Lens Retracts When Not in Use
- Length: 27mm, Weight: 95g
- 37mm Filter Size

ASPH   ED
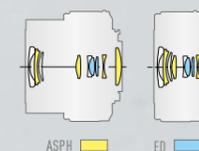
H-FS014042

H-FS1442A

H-FS014045

LUMIX G Standard Zoom Lens, 14–42mm

- 14–42mm Focal Length (28–84mm full-frame equivalent)
- F3.5–5.6 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 64mm, Weight: 165g
- 52mm Filter Size
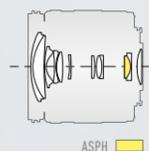
ASPH

LUMIX G Standard Zoom Lens, 14–42mm

- 14–42mm Focal Length (28–84mm full-frame equivalent)
- F3.5–F5.6 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 49mm, Weight: 110g
- 46mm Filter Size

ASPH
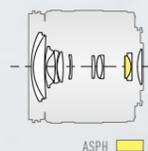
LUMIX G Standard Zoom Lens, 14–45mm

- 14–45mm Focal Length (28–90mm full-frame equivalent)
- F3.5-5.6 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 60mm, Weight: 195g
- 52mm Filter Size
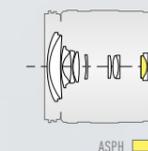
ASPH

Standard Zoom

H-FS14140

H-X025
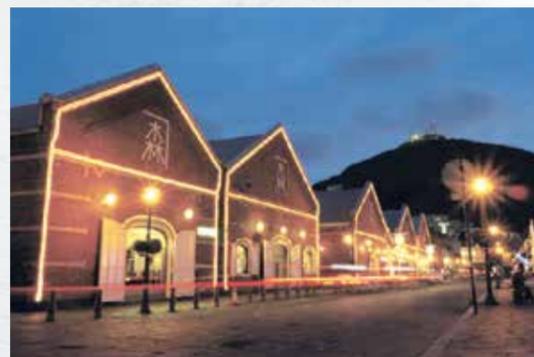
Standard Zoom

LUMIX G Standard Zoom Lens, 14–140mm

- 14–140mm Focal Length (28–280mm full-frame equivalent)
- F3.5–F5.6 Max. Aperture
- POWER O.I.S. Image Stabilisation
- Length: 75mm, Weight: 265g
- 58mm Filter Size
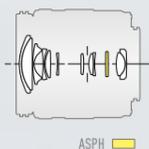
ASPH

Fixed Focal Length

LEICA DG SUMMILUX Lens, 25mm

- 25mm Focal Length (50mm full-frame equivalent)
- F1.4 Max. Aperture
- Nano Surface Coating
- Length: 55mm, Weight: 200g
- 46mm Filter Size

ASPH   UHR

H-H020A

MICRO
FourThirds

H-H014

MICRO
FourThirds
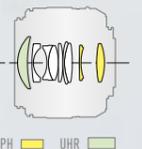
Fixed Focal Length

Bright LUMIX G Pancake Lens, 20mm

- 20mm Focal Length (40mm full-frame equivalent)
- F1.7 Max. Aperture
- Length: 25.5mm, Weight: 87g
- 46mm Filter Size
- Metal Chassis

ASPH

Fixed Focal Length

LUMIX G Wide-Angle Pancake Lens, 14mm

- 14mm Focal Length (28mm full-frame equivalent)
- F2.5 Max. Aperture
- Length: 21mm, Weight: 55g
- 46mm Filter Size

ASPH

H-ES045

H-F008

H-FT012

Fixed Focal Length

LEICA DG Macro Elmarit Lens, 45mm

- 45mm Focal Length (90mm full-frame equivalent)
- F2.8 Max. Aperture
- MEGA O.I.S. Image Stabilisation
- Length: 63mm, Weight: 225g
- 46mm Filter Size

ASPH   UED
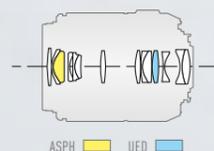
LUMIX G Fisheye Lens, 8mm

- 8mm Focal Length (16mm full-frame equivalent)
- F3.5 Max. Aperture
- 180° Angle of View
- Length: 52mm, Weight: 165g (metal mount)

UED
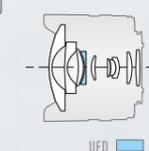
LUMIX G 3D Photo Lens,12.5mm

- 12.5mm Focal Length (65mm full-frame equivalent)
- F12 Fixed Aperture
- Length: 21mm, Weight: 45g
- 10mm Stereo Base
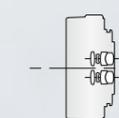
DMW-ZL1

Zoom Lever

VW-LED1

External LED Flash

DMW-LVF2

Live Viewfinder

DMW-EC1GU

Eye Cup for GX7

DMW-GWC1

Wide Conversion Lens, from 28mm to 22mm[1,2]

DMW-ZL-GTC1

Tele Conversion Lens, from 84mm to 2.0x 168mm (Tele End)[3]

DMW-LND62 (62mm)

Neutral Density Filter
Also available in
52/46/37mm

DMW-FL220

External Flash

DMW-MS1

Microphone

DMW-CGK22XEK

Leather Bag for GX7

DMW-GMC1

Macro Conversion Lens, from 0.34x to 0.7x Macro (Tele End)[2]

DMW-GFC1

Fish-eye Conversion Lens, to 120° Fish-Eye[3]

DMW-LPL62 (62mm)

Polarised Filter
Also available
in 52/46/37mm

DMW-FL360L[5]/FL360

External Flashes

DMW-MS2

Stereo Shotgun
Microphone

DMW-MA1

Mount Adaptor for
Four Thirds Lenses[4]

DMW-MA2M

Mount Adaptor for
LEICA M Lenses

DMW-MA3R

Mount Adaptor for
LEICA R Lenses

DMW-LMCH62 (62mm)

MC Protector
Also available in
52/46/37mm

DMW-FL500

External Flash

DMW-RSL1

Remote Shutter

DMW-TA1

Tripod Adaptor

DMW-BGGH3

Battery Grip for GH3

DMW-BLF19

Battery for GH3
DMW-BLC12 (for G5/GH2)
DMW-BLD10 (for GX1/G3/GF2)
DMW-BLE9 (for GF5/GF3)

[1]Using H-PS014042. [2]Compatible with PS014042 & H-H014. [3]Compatible with H-PS014042. [4]With the DMW-MA1 mount adaptor, all Four Thirds lenses can be used with the G Series System Cameras. [5]Wireless compatible

DMC-GH3 / DMC-G6

				DMC-GH3	DMC-G6
Type			Recording Media	SD Memory Card, SDHC Memory Card, SDXC Memory Card	SD Memory Card, SDHC Memory Card, SDXC Memory Card
			Image Sensor Size	17.3 x 13.0 mm (in 4:3 aspect ratio)	17.3 x 13.0 mm (in 4:3 aspect ratio)
			Micro Four Thirds Mount	•	•
Image Sensor			Type	Live MOS Sensor	Live MOS Sensor
			Total Pixels	17.2-Megapixels	18.31-Megapixels
			Camera Effective Pixels	16.05-Megapixels	16.05-Megapixels
			Dust Reduction System	Supersonic wave filter	Supersonic wave filter
Recording System			Recording File Format	Still Image: JPEG (DCF, Exif 2.3), RAW, MPO[1] Motion Image: AVCHD Ver2.0 compliant (AVCHD Progressive), MPEG4-AVC(H.264). (MOV, MP4)	Still Image: JPEG (DCF, Exif 2.3), RAW, MPO[1] Motion Image: AVCHD (Audio format: Dolby Digital 2ch) / MP4 (Audio format AAC 2ch)
			Aspect Ratio	4:3, 3:2, 16:9, 1:1	4:3, 3:2, 16:9, 1:1
			Colour Space	sRGB, Adobe RGB	sRGB, Adobe RGB
	Still Image			[4:3] 4608 x 3456(L) / 3264 x 2448(M) / 2336 x 1752(S) / 1824 x 1368[1] [3:2] 4608 x 3072(L) / 3264 x 2176(M) / 2336 x 1560(S) / 1824 x 1216[1] [16:9] 4608 x 2592(L) / 3264 x 1840(M) / 1920 x 1080(S) / 1824 x 1024[1] [1:1] 3456 x 3456(L) / 2448 x 2448(M) / 1744 x 1744(S) / 1712 x 1712[1]	[4:3] 4608 x 3456(L) / 3264 x 2448(M) / 2336 x 1752(S) / 1824 x 1368[1] [3:2] 4608 x 3072(L) / 3264 x 2176(M) / 2336 x 1560(S) / 1824 x 1216[1] [16:9] 4608 x 2592(L) / 3264 x 1840(M) / 1920 x 1080(S) / 1824 x 1024[1] [1:1] 3456 x 3456(L) / 2448 x 2448(M) / 1744 x 1744(S) / 1712 x 1712[1]
	File Size (pixels)	Motion Image	MOV[2] / PAL[3]	[Full HD]1920 x 1080, 25p (sensor output is 25p, 72Mbps)(ALL-Intra) [Full HD]1920 x 1080, 24p (sensor output is 24p, 72Mbps)(ALL-Intra) [HD]1280 x 720, 50p (sensor output is 50p, 72Mbps)(ALL-Intra) [Full HD]1920 x 1080, 50p (sensor output is 50p, 50Mbps)(IPB) [Full HD]1920 x 1080, 25p (sensor output is 25p, 50Mbps)(IPB) [Full HD]1920 x 1080, 24p (sensor output is 24p, 50Mbps)(IPB)]	–
			MP4[4] / PAL[3]	[Full HD]1920 x 1080, 50fps (sensor output is 50p, 28Mbps)[4] [Full HD]1920 x 1080, 25fps (sensor output is 25p, 20Mbps) [HD]1280 x 720, 25fps (sensor output is 25p, 10Mbps) [VGA] 640 x 480, 25fps (sensor output is 25p, 4Mbps)	[Full HD] 1920 x 1080, 50fps (sensor output is 50p, 28Mbps) [Full HD]1920 x 1080, 25fps (sensor output is 25p, 20Mbps) [HD] 1280 x 720, 25fps (sensor output is 25p, 10Mbps) [VGA] 640 x 480, 25fps (sensor output is 25p, 4Mbps)
			AVCHD Progressive[4]/ PAL[3]	[Full HD]1920x1080, 50p (sensor output is 50p, 28Mbps)	[Full HD] 1920x1080, 50p (sensor output is 50p, 28Mbps)
			AVCHD[4] / PAL[3]	[Full HD] 1920x1080, 24p (sensor output is 24p, 24Mbps) [Full HD] 1920x1080, 50i (sensor output is 25p, 24Mbps) [Full HD] 1920x1080, 50i (sensor output is 50p, 17Mbps)	[Full HD] 1920x1080, 50i (sensor output is 50p, 17Mbps) [Full HD] 1920x1080, 50i (sensor output is 25p, 24Mbps) [Full HD] 1920x1080, 24p (sensor output is 24p, 24Mbps) [HD] 1280x720, 50p (sensor output is 50p, 17Mbps)
Wi-Fi			Wi-Fi	IEEE 802.11b/g/n, 2412MHz-2462MHz (11ch), Wi-Fi / WPA / WPA2, Infrastructure mode	IEEE 802.11b/g/n, 2412MHz-2462MHz (11ch), Wi-Fi / WPA / WPA2, Infrastructure mode
			NFC	–	ISO / IEC 18092 (NFCIP-1) NFC-F
Viewfinder			Resolution Live Viewfinder	OLED Live View Finder (1,744K dots)	OLED Live View Finder (1,440,000 dots)
			Field of View	Approx. 100%	Approx. 100%
			Magnification	Approx. 1.34x / 0.67x (35mm camera equivalent)	Approx. 1.4x / 0.7x (35mm camera equivalent) with 50mm lens at infinity; -1.0 m -1
Focus			Contrast AF System	•	•
			Focus Mode AFS/AFF/AFC/MF	•	•
			AF Mode	Face Detection / AF Tracking / 23-area-focusing / 1-area-focusing / Pinpoint (Full area touch is available)	Face Detection / AF Tracking / 23-area-focusing / 1-area-focusing / Pinpoint
			AF Assist Lamp	• (ON / OFF)	•
Exposure Control			Modes: Intelligent Multiple / Centre Weighted / Spot	•	•
			Exposure Mode	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual
			AE Bracket	3,5,7 frame in 1/3, 2/3 or 1 EV Step, single/burst	3,5,7 frame, in 1/3 or 2/3 or 1EV Step, ±3 EV
			ISO Sensitivity (standard output sensitivity)	Auto / Intelligent ISO / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 (Changeable to 1/3, 1EV step) (Extended ISO125-less under 200, ISO more over 12800-25600 Available) (Up to ISO3200 in Auto)	Auto / Intelligent ISO / 160 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Extended) (Changeable to 1/3 EV step)
White Balance			Colour Temperature Setting	2500-10,000K in 100K	2500-10,000K in 100K
			White Balance Bracket	3 exposures in blue/amber axis or in magenta/green axis	3 exposures in blue/ amber axis or in magenta/ green axis
Shutter Speed				Still Images: 1/4000-60 and Bulb (Approx. 60 minutes) Motion image: 1/16,000 – 1/25	Still Images: Bulb (Max.120), 1/4000 – 60 Motion image: 1/16000 – 1/25
Burst Shooting			Burst Speed	SH: 20 frames/sec, H: 6 frames/sec, M: 4 frames/sec (with Live View), L: 2 frames/sec (with Live View)	SH : 40.0 frames/sec, H: 7.0 frames/sec(with AFS), 5.0 frames/sec(with AFC, In 1-area-focusing AF mode), M: 4.0 frames/sec (with Live View), L: 2.0 frames/sec (with Live View)
			Number of Recordable Images	18 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on memory card size, battery power, picture size and compression)	9 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on memory card size, battery power, picture size and compression)
Flash			Built-In Pop-Up Flash	TTL, GN12 equivalent (ISO 100) / GN17 equivalent (ISO 200)	TTL, GN10.5 equivalent (ISO 160) / GN8.3 equivalent (ISO 100)
			Hot Shoe	•	•
LCD Monitor			Monitor Size	Free-angle 7.5cm (3-Inch) / 3:2 Aspect / Wide-viewing angle	Free-angle 7.5cm (3-Inch) / 3:2 Aspect / Wide-viewing angle
			Pixels	614K dots	1036K dots
			Brightness Adjustment	•	•
Interface			USB	USB 2.0 High Speed	USB 2.0 High Speed Multi
			HDMI	miniHDMI TypeC Video: Auto / 1080p / 1080i / 720p / 480p (576p in PAL system) Audio: Dolby® Digital	miniHDMI TypeC Video: Auto / 1080i / 720p / 480p (576p in PAL system) Audio: Stereo
			Remote/External Microphone Input	ø 2.5mm / ø 3.5mm	ø 2.5mm / ø 3.5mm
			Built-In Microphone	Stereo, Wind-cut: Off / Low / Standard / High / AUTO	Stereo, Wind-cut: AUTO / HIGH / STANDARD / LOW / OFF Microphone level adjustable : 19 levels
			Speaker	Monaural	Monaural
Power			Battery Battery Charger/AC Adaptor	Li-ion Battery Pack (7.2V, 1860mAh) (Included) Battery Charger	Li-ion Battery Pack (7.2V, 1200mAh) (Included) Battery Charger
			Battery Life (CIPA Standard)	Approx. 540 images with H-HS12035 Approx. 500 images with H-VS014140	Approx. 340 images with H-PS14042 Approx. 350 images with H-FS1442A Approx. 330 images with H-FS014042 Approx. 350 images with H-FS45150 Approx. 340 images with H-FS14140
Dimensions (W x H x D)				132.9 x 93.4 x 82.0mm (excluding protrusions)	122.45 x 84.6 x 71.4mm (excluding protrusions)
Weight				Approx. 470g (body only)	Approx. 340g (body only)

DMC-GX7 / DMC-GF6

				DMC-GX7	DMC-GF6
Type			Recording Media	SD Memory Card, SDHC Memory Card, SDXC Memory Card (Compatible with UHS-I standard SDHC/SDXC Memory Cards)	SD Memory Card, SDHC Memory Card, SDXC Memory Card
			Image Sensor Size	17.3 x 13.0 mm (in 4:3 aspect ratio)	17.3 x 13.0 mm (in 4:3 aspect ratio)
			Micro Four Thirds Mount	•	•
Image Sensor			Type	Live MOS Sensor	Live MOS Sensor
			Total Pixels	16.84-Megapixels	16.68-Megapixels
			Camera Effective Pixels	16-Megapixels	16-Megapixels
			Dust Reduction System	Supersonic wave filter	Supersonic wave filter
Recording System			Recording File Format	Still Image: JPEG (DCF, Exif 2.3), RAW, MPO[1] Motion Image: AVCHD (Audio format: Dolby Digital 2ch) / MP4 (Audio format AAC 2ch)	Still Image: JPEG (DCF, Exif 2.3), RAW, MPO[1] Motion Image: AVCHD (Audio format: Dolby Digital 2 ch) / MP4 (Audio format AAC 2ch)
			Aspect Ratio	4:3, 3:2, 16:9, 1:1	4:3, 3:2, 16:9, 1:1
			Colour Space	sRGB, Adobe RGB	sRGB, Adobe RGB
	Still Image			[4:3] 4592 x 3448(L) / 3232 x 2424(M) / 2272 x 1704(S) / 1824 x 1368[1] [3:2] 4592 x 3064(L) / 3232 x 2160(M) / 2272 x 1520(S) / 1824 x 1216[1] [16:9] 4592 x 2584(L) / 3232 x 1824(M) / 1920 x 1080(S) / 1824 x 1024[1] [1:1] 3424 x 3424(L) / 2416 x 2416(M) / 1712 x 1712(S) / 1712 x 1712[1]	[4:3] 4592 x 3448(L) / 3232 x 2424(M) / 2272 x 1704(S) / 1824 x 1368[1] [3:2] 4592 x 3064 (L) / 3232 x 2160(M) / 2272 x 1520(S) / 1824 x 1216[1] [16:9] 4592 x 2584(L) / 3232 x 1824(M) / 1920 x 1080(S) / 1824 x 1024[1] [1:1] 3424 x 3424(L) / 2416 x 2416(M) / 1712 x 1712(S) / 1712 x 1712[1]
	File Size (pixels)	Motion Image	MP4[4] / PAL[3]	[Full HD] 1920 x 1080, 50fps (sensor output is 50p, 28Mbps) [Full HD]1920 x 1080, 25fps (sensor output is 25p, 20Mbps) [HD] 1280 x 720, 25fps (sensor output is 25p, 10Mbps) [VGA] 640 x 480, 25fps (sensor output is 25p, 4Mbps)	[Full HD] 1920 x 1080, 25fps (sensor output is 25p)[3] [HD] 1280 x 720, 25fps (sensor output is 25p)[3] [VGA] 640 x 480, 25fps (sensor output is 25p)[3]
			AVCHD Progressive[4]/ PAL[3]	[Full HD] 1920 x 1080, 50p (sensor output is 50p, 28Mbps)	–
			AVCHD[4] / PAL[3]	[Full HD] 1920 x 1080, 50i (sensor output is 50p, 17Mbps) [Full HD] 1920 x 1080, 50i (sensor output is 25p, 24Mbps) [Full HD] 1920 x 1080, 24p (sensor output is 24p, 24Mbps) [HD] 1280 x 720, 50p (sensor output is 50p, 17Mbps)	[Full HD] 1920 x 1080, 50i (sensor output is 25p) [HD] 1280 x 720, 50p (sensor output is 25p)
Wi-Fi			Wi-Fi	IEEE 802.11b/g/n, 2412MHz - 2462MHz (11ch), Wi-Fi / WPA / WPA2, Infrastructure mode	IEEE 802.11b/g/n, 2412MHz - 2462MHz (11ch), Wi-Fi / WPA / WPA2, Infrastructure mode
			NFC	ISO / IEC 18092, NFC-F (Passive Mode)	ISO / IEC 18092 (NFCIP-1) NFC-F
Viewfinder			Resolution Live Viewfinder	LCD Live View Finder (2,760K dots)	N/A
			Field of View	Approx. 100%	N/A
			Magnification	Approx. 1.39x / 0.7x (35mm camera equivalent) with 50mm lens at infinity; -1.0 m -1	N/A
Focus			Contrast AF System	•	•
			Focus Modes AFS/AFC/MF	•	•
			AF Mode	Face Detection / AF Tracking / 23-area-focusing / 1-area-focusing / Pinpoint	Face Detection / AF Tracking / 23-area-focusing / 1-area-focusing / Pinpoint
			AF Assist Lamp	•	•
Exposure Control			Modes: Intelligent Multiple / Centre Weighted / Spot	•	•
			Exposure Mode	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual
			AE Bracket	3,5,7 frame, in 1/3 or 2/3 or 1EV Step, Max. ±3 EV	3,5 frame, in 1/3 or 2/3 EV Step, ±4/3 EV
			ISO Sensitivity (standard output sensitivity)	Auto / Intelligent ISO 125 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)	Auto / Intelligent ISO / 160 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Extended) (Changeable to 1/3 EV step)
White Balance			Colour Temperature Setting	2500-10,000K in 100K	2500-10,000K in 100K
			White Balance Bracket	3 exposures in blue/ amber axis or in magenta/ green axis	3 exposures in blue/ amber axis or in magenta/ green axis
Shutter Speed				Still Images: Bulb (Max.15min), 1/8000 – 60 Motion image: 1/16000 – 1/25	Still Images: 1/4000 – 60 Motion image: 1/16000 – 1/25
Burst Shooting			Burst Speed	Mechanical Shutter - H: 5.0 frames/sec (with AFS), 4.2 frames/sec (with AFC, In 1-area-focusing AF mode), M: 4.0 frames/sec, L: 2.0 frames/sec Electronic Shutter - SH: 40.0 frames/sec, H: 10.0 frames/sec, M: 4.0 frames/sec, L: 2.0 frames/sec	SH: 20frames/sec, H: 4.2 frames/sec (with AFS), M: 3frames/sec (with Live View), L: 2.0 frames/sec (with Live View)
			Number of Recordable Images	9 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on aspect ratio, memory card size, picture size, and the setting for the quality)	7 images (when there are RAW files with the particular speed) Unlimited consecutive shooting (when there are no RAW files) (depending on memory card size, battery power, picture size, and compression)
Flash			Built-In Pop-Up Flash	TTL, GN7.0 equivalent (ISO 200), GN5.0 equivalent (ISO 100)	TTL, GN6.3 equivalent (ISO 160), GN5.0 equivalent (ISO 100)
			Hot Shoe	•	–
LCD Monitor			Monitor Size	7.5 cm (3-Inch) / 3:2 Aspect / Wide-viewing angle	7.5cm (3-Inch) / 3:2 Aspect / Wide-viewing angle
			Pixels	Approx. 1040K dots	1040K dots
			Brightness Adjustment	•	•
Interface			USB	USB 2.0 High Speed Multi	USB 2.0 High Speed Multi
			HDMI	miniHDMI TypeC / VIERA Link Video: Auto / 1080p / 1080i / 720p / 480p (576p in PAL system) Audio: Stereo	miniHDMI TypeC Video: Auto / 1080i / 720p / 480p (576p in PAL system) Audio: Stereo
			Remote /External Microphone Input	ø 2.5mm / –	ø 2.5mm / –
			Built-In Microphone	Stereo	Stereo, Wind-cut: Off / Auto, Flicker reduction Microphone level adjustable: Lv1 / Lv2 / Lv3 / Lv4
			Speaker	Monaural	Monaural
Power			Battery Battery Charger/AC Adaptor	Li-ion Battery Pack (7.2V, 1025mAh) (Included) Battery Charger	Li-ion Battery Pack (7.2V, 1025mAh) (Included) Battery Charger
			Battery Life (CIPA Standard)	Approx. 320 images with H-H020A Approx. 350 images with H-FS1442A	Approx. 330 images with H-PS14042 Approx. 340 images with H-FS1442A Approx. 340 images with H-FS1442A
Dimensions (W x H x D)				122.6 x 70.7 x 43.3mm (excluding protrusions)	111.2 x 64.8 x 38.4mm (excluding protrusions)
Weight				Approx. 360g (body only)	Approx. 280g (body only)

[1] When attaching 3D lens in Micro Four Third System standard. [2] Use a card with SD Speed Class with „Class4" or higher.
[3] Motion images can be recorded continuously for up to 29 min 59 sec in European PAL areas. [4] Continuous recording exceeding 4GB or 29 min 59 sec is not possible when recording AVCHD in PSH.