

**Panasonic**



**THE ONE FOR YOU**

**CHANGING PHOTOGRAPHY** **G**



**GH5**



**G80 / G7**



**GX8 / GX80**



**GX800**



**GF7**

LUMIX G BROCHURE SPRING 2017

**LUMIX** **G**



YOUR PERSONALITY.  
OUR VARIETY.

CHANGING PHOTOGRAPHY

G

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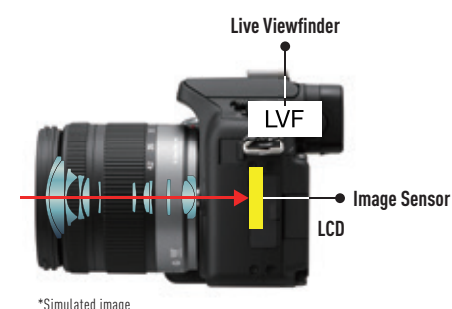
## LUMIX G MAKES THE DIFFERENCE

### EVERYTHING YOU NEED – AND NOTHING YOU DON'T NEED.

You could say that's what makes LUMIX G cameras so successful. These mirrorless interchangeable-lens models (DSLMs) have dispelled the myth that only complicated single lens reflex systems (DSLRs) can offer perfect picture quality, as well as the idea that only chunky bodies guarantee top performance.

That's because, in actual fact, eliminating the bulky single lens reflex Viewfinder is a plus. It makes way for what's really important: more picture quality, more precision, more handiness. It's a future technology that's perfect for a constantly evolving society.

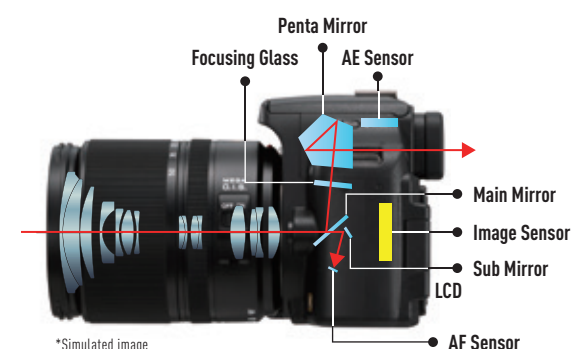
**The LUMIX G system offers the right camera for everyone's needs. Photo and video enthusiasts who are looking for a modern and lightweight system can look forward to professional quality. LUMIX G technology delivers compact performance.**



## LUMIX G

### LUMIX G DSLM

- + **Live Viewfinder** for real time image preview
- + **Mobility:** compact and lightweight system
- + **Autofocus:**
  - + Touch focus via display
  - + Fast Live View autofocus using Viewfinder and monitor
  - + Flexible focus points
  - + Precision autofocus for taking videos
- + **Silent shooting**



## CONVENTIONAL DSLR

### CONVENTIONAL DSLR

- Optical Viewfinder does not show picture preview or settings
- Mobility: bulky and heavy system
- Autofocus:
  - No Touch Focus via display
  - Slow autofocus in Live View
  - Fixed focus points
  - Slow autofocus when shooting videos
- Sounds cannot be switched off





# FLEXIBLE SYSTEM

## FIND THE ONE FOR YOU

It would be odd if the digital revolution simply passed photography by. And it hasn't: purely digital and mirrorless interchangeable-lens systems (DSLM) are the stars of the photographic universe, free of the analogue heritage of complicated single lens reflex systems (DSLR).

**Why be an old-fashioned photographer when you can be modern? Discover pioneering photography and find precisely the LUMIX G that suits you. And take a look at our numerous interchangeable lenses. A new level of freedom is within reach.**



**LUMIX G**



# LARGE SENSOR

## THE HEART OF PICTURE QUALITY

**LUMIX G cameras boast extraordinary picture quality and crystal-clear shots. There are many reasons for this, and one of them is the Live MOS sensor. Interacting with high-quality optics and a powerful processor, it lays the foundation for brilliant photographs.**

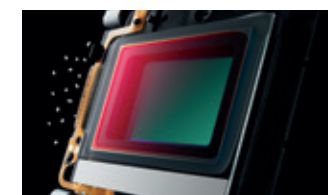
Size matters? Yes, but not only size. What is crucial is that sensor size, system set-up and image processing all match up. It is this interplay which has been optimised in the LUMIX G models. The result is that more and more photographers appreciate the modern aspects of our mirrorless system and use LUMIX G cameras for taking great shots.

Resolutions of up to 20,3 megapixels guarantee detailed picture quality. Clean colours also speak for themselves, as do balanced transitions without loss of resolution. And colour and luminance noise? It's effectively prevented even at high ISO ratings. So you can snap away without a care even in low light conditions.

**Give free rein to your creativity – the Live MOS sensor gives you plenty of leeway and guarantees fantastic shots.**



Large sensor  
with 21.3 mm diameter



### Ultrasound dust illumination

Dust it down: the fully automatic Supersonic Wave Filter is integrated into LUMIX G models. It utilises 80,000 vibrations per second to sweep away particles such as dust and dirt from the sensor. This means you can change your lens without worrying and still achieve unblemished pictures.





#### Image effects

Selective colour (red) image effect shown in the Viewfinder

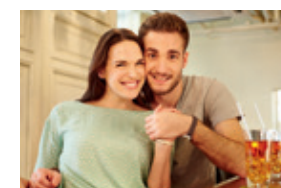
# LIVE VIEWFINDER

## FOR TOTAL IMAGE CONTROL

Do not like to do things by halves? Then you're in the best company. LUMIX G's motto is: do things properly, or don't do them at all. Take the Viewfinder for instance. Because the image comes straight from the sensor, our Viewfinder is called Live Viewfinder (LVF) and shows precisely the field of view that the lens is currently capturing. They show it properly, in other words.

The LUMIX G is a true perfectionist in other ways as well. It displays every image effect and the results of white balance, colour effects, lighting and many other functions. Another benefit:

Unlike single lens reflex, when you focus manually, sections of the image are enlarged in the Viewfinder allowing you to concentrate on what's important, so you don't need to take your camera away from your eye to check settings.



LUMIX G  
100 % field of view



DSLR  
<100 % field of view

### LUMIX G DSLM BENEFITS

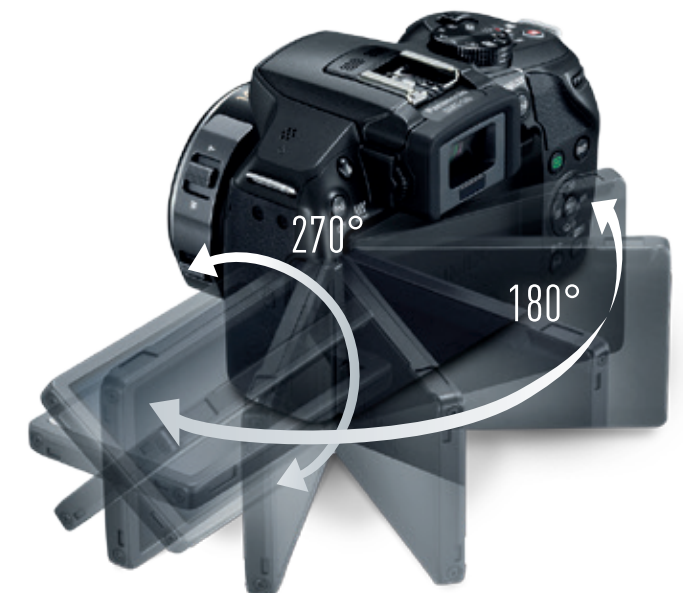
- + 100 % field of view
- + All image effects shown
- + The white balance and EV correction are immediately visible
- + Aspect ratios 4:3, 3:2, 1:1, 16:9 can be shown
- + Focus assist when focusing manually



# DISPLAY

## FREEDOM FOR NEW WAYS OF LOOKING AT THINGS

Get a new angle on your pictures. LUMIX G cameras are equipped with a flexible\* display on the backside. While others have to bend to get creative shots, you get the perfect image straight in the box. Selfie, low angle or overhead shots – you can turn the LUMIX G whichever way you want and you'll always capture the perfect picture.



#### Selfie shots

A tiltable display is a true eye-opener when it comes to the popular selfie format. Because you can move it around the way you want to, you'll find it easier to put yourself in the picture. No more limits on your creativity. You're free to do it yourself...



#### Low angle shots

Thanks to a vertically pivoting display you no longer have to go down on your knees to capture something small at eye-level. You'll soon discover how much fun it can be to take macro photos.



#### Overhead shots

For your next overhead shots you won't have to climb onto a chair or ladder to see the picture in your Viewfinder. Instead you've got a folding display. So while you stay firmly on the ground you can see things from a bird's-eye perspective. Clever, don't you think?



#### Display Guard – never get another scratch

Nothing is more annoying than getting a scratch on your display. Fortunately it won't happen to you now. After filming or photographing, simply fold in the LUMIX G display. Forewarned is forestalled.

### LUMIX G DSLM BENEFITS

- + Shoot from any angle
- + All settings are shown directly
- + Intuitive Touch operation via the touchscreen





# AUTOFOCUS & TOUCH DISPLAY

## FOCUS ON THE TINIEST DETAILS

Frame up, focus, shoot – in some situations you’ve got to be quick otherwise you’ll miss the ideal picture.

**LUMIX G cameras have a super fast and precise autofocus.**

**How does it work?**

While DSLR cameras still work with a separate autofocus sensor – which can easily produce inaccuracies – the LUMIX G sensor performs autofocus as well. That’s how LUMIX G cameras achieve superb results in video and photography.

### DEPTH FROM DEFOCUS (DFD) TECHNOLOGY – PRECISION AND CLARITY, ONLY QUICKER

The Depth from Defocus (DFD) technology achieves optimised focus within a split of a second. To achieve this, Panasonic has further developed its contrast autofocus.

The processor calculates the distance from the subject from two as-yet unfocused images with different depths of focus. Working together with the LUMIX G lens, the camera will then calculate the correct distance, focus on it and perform fine-tuning.

### LUMIX G BENEFITS

- + Fast and precise autofocus
- + No delay in Live View
- + Focus anywhere in the image
- + Intuitive focusing by using the touchscreen

### TOUCH DISPLAY – GET IN TOUCH WITH INTUITIVE OPERATION

Do you share our vision that a camera should be complex but not complicated? That’s why every LUMIX G model has a big touchscreen. It gives you a complete overview, and operating it is wonderfully intuitive.

**Focus on details of your picture or make use of our practical auto-focus tracking – this feature follows your subject as it moves.**

**Oh yes, and you can shoot using the display as well. One touch is enough – and click.**

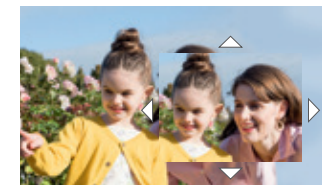


## AUTOFOCUS MODES – OVERVIEW



### Pinpoint AF

Select spot autofocus from the menu and tap the area of the image area you want to focus on. Next, enlarge the picture to define exactly where you want to focus. Now all you have to do is shoot.



### Manual focusing

Focusing can be done automatically or manually. Manual fine focusing is also possible in autofocus mode. Either way, a moveable touchscreen focus assist (picture in picture) makes precision focusing easier.



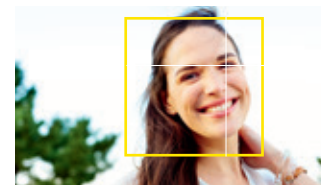
### AF tracking

When this function is active, autofocus will follow the details of the subject which you have touched (the bird in this example). This is especially useful when shooting a video.



### 1-Area / 49-Area AF

In 1 field mode, the autofocus focuses on an area of the field of view. In 49 field AF, the LUMIX G automatically selects one or more of 49 fields.



### Face / Eye detection

Your LUMIX G doesn't just recognise faces. With a tap of the finger the camera can also focus on details – now even eye recognition is possible.



### Focus peaking – the ultimate focus test

The new LUMIX G helps you wherever it can – including when you focus manually. The edges of the picture area you have selected are highlighted in colour on the display so that you can see straight away whether the right details are in focus. Now that's what we call a good photographic assistant...





# 4K 4K VIDEO

## 4K RESOLUTION – THE KEY TO PERFECT VIDEOS

Feel for a great documentary? Then why not film one yourself? You can record 4K videos in up to 3840 × 2160 pixels and 60 frames per second. We know that the ultra-clear video quality of LUMIX G cameras will bowl you over from the very first scene. With its intuitive operation and extraordinary professionalism, the LUMIX G will make you a star director in a flash.

Choose between formats like MOV, MP4 and AVCHD as well as lots of different frame rates. Pros will love the fact that the GH5 can even show pictures on an external monitor or send them to a hard drive in real time using a HDMI cable while you shoot.

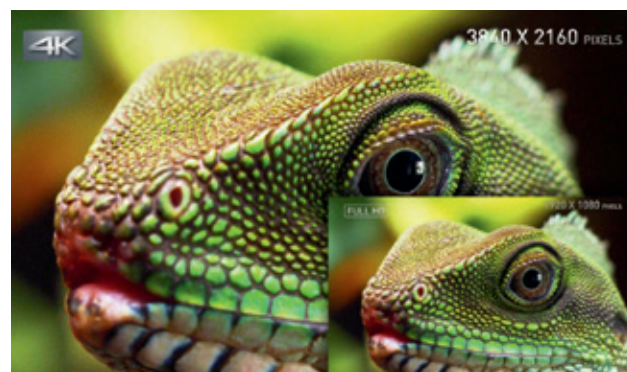
### LUMIX G BENEFITS 4K VIDEO

- + **Higher resolution, realistic image** on 4K TVs
- + **Fantastic picture** on Full HD TVs as well
- + **Video editing with lots of benefits:**  
Full HD cut-out from 4K image, subject tracking, zooming, balancing skew horizons



But all the other LUMIX G models are great at shooting movies, too – just like you. Simply press the Direct Video button and they take brilliant 4K picture quality videos almost by themselves.

An intelligent automatic mode immediately recognises the situation and selects a suitable image program. Stop limiting your creativity – the LUMIX G certainly doesn't.



### 4K vs. Full HD

Whether you watch videos or edit your own, 4K offers the sharpest viewing experience you have ever had. 4K Ultra HD resolution achieves four times the quality of Full HD. That means more details, more colours and more depth of focus.



# 4K / 6K PHOTO & POST FOCUS

## 4K / 6K PHOTO – CAPTURE THE PERFECT MOMENT

4K isn't just attractive to filmmakers, this revolutionary quality also offers new possibilities to photographers. Its high-resolution allows you to extract high quality still images and save them as JPEGs. With frame rates of up to 60 frames per second, you can be sure to capture that perfect moment.

The new 6K PHOTO mode that comes with the new LUMIX GH5 at 30 frames per second allows you to capture the perfect moments at a stunning 18-megapixel high-resolution JPEG.

### LUMIX G BENEFITS 4K / 6K PHOTO

- + Extract a still image from a Video
- + **Faster frame** rate than in burst shooting
- + Never miss a **perfect moment** again

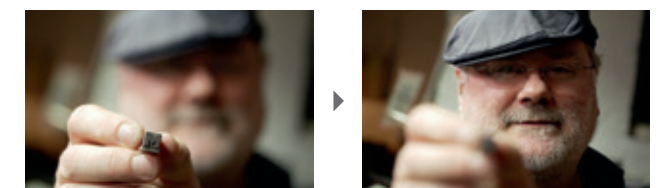
### LUMIX G POST FOCUS BENEFITS

- + Select the ideal focal plane,  
**later on after shooting**
- + More **creative freedom** and perfect photographs

## POST FOCUS – SHOOT NOW, FOCUS LATER

The Post Focus feature allows you to focus on any number of different areas of an image – even after the picture has been taken. Serial exposures in 4K resolution are taken at 30 images per second, and the focus moves through as many as 49 areas with different focal points – from near to far. After that you simply touch the area you want to focus on and the image is focused automatically. As soon as the focused and unfocused areas of the image are the way you want them, you can save the shot as a separate photograph.

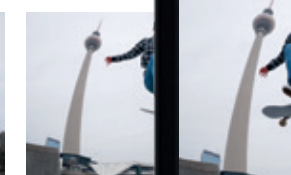
That means you can decide later about where your focal plane (or planes) should lie. This feature also provides assurance when photographing difficult subjects, such as macro shots.



**Post Focus**  
Focused up front or further back?  
Post Focus opens up completely new possibilities.



© Jonas Borg 2016







# OPERATION

## SOUNDLESS, WIRELESS, FAULTLESS – THE LUMIX EXPERIENCE

### DUAL IMAGE STABILISER (DUAL I.S.)

This technology is the first to combine image stabilising features in the lens and the sensor to better compensate for camera shake. Many LUMIX G lenses are already equipped with optical image stabilisers, which allows every LUMIX G camera to take more stabilised images especially in telephoto shots. In GH5 and G80 the new DUAL I.S. 2 (5-Axis) achieves even better photography results and shake-free shots. The astonishing power of the 5-axis Body I.S. corrects shake for all lenses, including classic lenses not equipped with O.I.S.



Conventional Image Stabilisation



Dual Image Stabilisation

### WI-FI AND NFC™ – WIRELESSLY CONNECTED

LUMIX G cameras are smart devices which suit your networked lifestyle perfectly. With integrated Wi-Fi they offer some great features and make photography wonderfully flexible. For example, you can control your LUMIX G fully using your mobile device.

Upload your holiday images straight onto social networks or archive them on your mobile phone. All LUMIX G cameras have built-in Wifi connectivity which makes use of your home network or in case a Wifi network is out of reach directly connect with your smartphone.

### LUMIX G BENEFITS

- + Effectively prevents shaky images
- + Connects **wirelessly** to external devices
- + **Silent photography** without annoying clicks
- + **Beginner-friendly** fully automatic option

### SILENT SHUTTER

Every LUMIX G model comes with the Silent Shutter feature. It's great if you don't want to disturb the scenery with annoying clicks or draw unwanted attention to yourself. Think, for example, of formal moments at a wedding. Animal photography is also much easier because there are no unwanted noises to unsettle the subject. It's details like these that can make an extraordinary difference – the difference between an almost perfect photo and an absolutely perfect one.



### INTELLIGENTLY AUTOMATIC

They say the first step is always the hardest, but it isn't with the LUMIX G. Its intelligent automatic mode (iA) relieves beginners of every complicated camera setting.

That means face recognition, ISO control, contrast and autofocus tracking of moving subjects are all regulated by the LUMIX G on its own. If you just want to take things step by step, you can change functions such as depth of field, brightness and colour using the touchscreen or the menu cross. As you can see, professional photography can be child's play.



Scene recognition: macro

# TECHNICAL COMPARISON

|                                | GH5 | G80 | G7 | GX8 | GX80 | GX800 | GF7 |
|--------------------------------|-----|-----|----|-----|------|-------|-----|
| SENSOR                         |     |     |    |     |      |       |     |
| Micro Four Thirds Sensor       |     |     |    |     |      |       |     |
| VIEWFINDER                     |     |     |    |     |      |       |     |
| Viewfinder                     |     |     |    |     |      |       |     |
| DISPLAY                        |     |     |    |     |      |       |     |
| Free-angle / Tilttable display |     |     |    |     |      |       |     |
| Touch operation                |     |     |    |     |      |       |     |
| AUTOFOCUS                      |     |     |    |     |      |       |     |
| Autofocus                      |     |     |    |     |      |       |     |
| Focus Peaking                  |     |     |    |     |      |       |     |
| 4K FUNCTIONS                   |     |     |    |     |      |       |     |
| 4K Video                       |     |     |    |     |      |       |     |
| 6K / 4K PHOTO                  |     |     |    |     |      |       |     |
| Post Focus                     |     |     |    |     |      |       |     |
| OPERATION                      |     |     |    |     |      |       |     |
| Wi-Fi                          |     |     |    |     |      |       |     |
| NFC™                           |     |     |    |     |      |       |     |
| Intelligent automatic mode     |     |     |    |     |      |       |     |
| Silent shutter                 |     |     |    |     |      |       |     |
| Image Stabiliser               |     |     |    |     |      |       |     |
| Hot shoe                       |     |     |    |     |      |       |     |
| Built-in flash                 |     |     |    |     |      |       |     |
| Splash-, dust-, freezeproof    |     |     |    |     |      |       |     |



# LUMIX | Ambassadors

On the following pages you can discover stunning images taken by our LUMIX Ambassadors showcasing their creative skills who benefit from all the functions and features of Panasonic's LUMIX G range of cameras.



**LUMIX GX80**  
Olivier Lavielle



**LUMIX GX8**  
Marco Crupi



**LUMIX GX8**  
Daimon Xanthopoulos



**LUMIX GH5**  
Daniel Berehulak





LUMIX G80  
Mitchell Kanashkevich



LUMIX GX8  
Mikolaj Nowacki



LUMIX GX80  
Joseph Linaschke



# THE ONE FOR YOU

CHANGING PHOTOGRAPHY **G**

**GH5**  
THE ONE  
WINNING AWARDS

PAGE 20-21

**G80**  
THE ONE  
FOR THE ADVENTURE

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**G7**  
THE ONE  
INTRODUCING 4K TO EVERYONE

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**GX8**  
THE ONE  
TAKING INCREDIBLE IMAGES

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**GX80**  
THE ONE  
CAPTURING LIFE ON THE MOVE

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**GX800**  
THE ONE  
THAT GETS THE MOST LIKES

PAGE 30-31



**GF7**  
THE ONE  
THAT'S GOT THE LOOK

PAGE 32-33



# 4K GH5

**FOR PROFESSIONAL 4K VIDEO AND PHOTO REQUIREMENTS**  
Say Hello to the LUMIX GH5. Our latest addition to the LUMIX G family. It has all it needs for ambitious photographers and film makers.

## THE ONE WINNING AWARDS

CHANGING PHOTOGRAPHY **G**

### TECHNICAL HIGHLIGHTS OF THE LUMIX GH5

- **20,3 MP Digital Live MOS sensor** – without low pass filter
- **Dual I.S.2 (5-axis)** – combining body and lens stabilisation
- **Perfect rendering** – Internal 4:2:2 10-bit 4K video recording
- **4K Video** – Unlimited 4K Video recording in 50p / 60p
- **Professional Connectors** – full-sized HDMI port, optional battery grip and XLR mic adaptor
- **Depth from Defocus (DFD) Autofocus** – fast and precise
- **6K & 4K PHOTO** – extract up to 18 MP JPEG from video
- **Free-angle Touchscreen** – 8 cm large display with 1.6 MP
- **Splash-, dust- and splashproof** – built to withstand
- **Live Viewfinder (LVF)** – perfectly frame your shots
- **Smart storage** – Dual S.D. card slot



**NEW**

#### 4K 60p / 50p Smooth Quality Video



The LUMIX GH5 takes professional shooting performance to another level with high-precision, silky smooth 4K 60p / 50p (QFHD 4K: 3840 × 2160 / MOV or MP4) video recording capability. Faster frame rates mean excellent motion compensation plus you can slow down footage inside your video editing timeline without losing detail.

#### Ultra Fast Motion Detection & Focus



Panasonic's innovative DFD (Depth From Defocus) technology is constantly evolving and its just got even better. DFD allows the LUMIX GH5 to calculate focal lens movement by comparing depth of field values of two images at incredibly high speed. A newly adopted motion detector accurately tracks fast moving subjects, and enables smooth 4K PHOTO / VIDEO & 6K PHOTO recording.

#### Never Miss A Shot with 6K / 4K PHOTO



Shoot with unlimited burst, then choose and extract the exact frames you want to keep. The new 6K PHOTO mode at 30fps allows you to capture the perfect moments at a stunning approx. 18-megapixel high-resolution. The Ultra-high-speed 4K PHOTO mode at 60fps freezes even faster motion which is simply not possible in conventional cameras.

#### The LUMIX GH5 in brief



- 1:** External mic-in **2:** OLED Viewfinder **3:** HDMI Type-A connector **4:** Free-angle 3.2-inch LCD touchscreen **5:** Joystick Controller **6:** Thumb control dial  
**7:** Hot shoe **8:** Index finger dial **9:** Wi-Fi access indicator **10:** Direct access buttons for white balance ISO setting and exposure compensation

Available in the following colours





# 4K G80

## THE ONE FOR THE ADVENTURE

When life's adventures take you places, you need a camera that can keep up. Perfect for outdoor shooting, the Dual Image Stabiliser helps you take crisper, clearer images in difficult or fast-moving environments, while the splash and dust proofed compact body and kit lens allow for huge flexibility wherever your trip takes you.

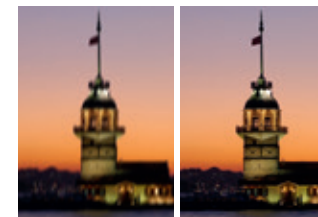
## THE ONE FOR THE ADVENTURE LUMIX G

### TECHNICAL HIGHLIGHTS OF THE LUMIX G80

- **16MP Live MOS Sensor** – without low pass filter
- **DUAL I.S.2 (5-axis)** – combining body and lens stabilisation
- **4K Video** – recording in ultra high res
- **4K PHOTO** – never miss the perfect moment
- **Post Focus** – shoot now, focus later
- **Depth from Defocus (DFD) Autofocus** – fast and precise
- **Free-angle Touchscreen** – 7,5 cm large display with 1.04 MP
- **Live Viewfinder (LVF)** – perfectly frame your shots
- **Splash and dust proof** – uncompromising in every situation



### DUAL I.S. image stabiliser



The LUMIX G80 integrates DUAL I.S.2 (Image Stabiliser)\*<sup>1</sup>, combining body and lens stabilisation to gain more powerful handshake correction and compensating your shots up to 5 F-Stops\*<sup>2</sup>. The 5-axis stabilisation works in both wide and telephoto photography and motion picture recording including 4K Video.

\*<sup>1</sup> DUAL I.S.2 available with lens firmware upgrade.  
\*<sup>2</sup> Based on the CIPA standard.

### 4K PHOTO



The 4K PHOTO feature on the LUMIX G80 allows you to capture the perfect moment by selecting a frame from a video sequence (shot at 30fps) in camera, and saving it as an individual high-res image. Simply shoot, select and save, to make those fleeting moments unmissable in every sense.

### Splash and dust proof



Rugged enough to withstand even the most challenging environments, the LUMIX G80 boasts a splash / dustproof body and kit lens. With the latest features condensed into a compact and mobile design, it gives you the flexibility and freedom to never stop exploring.

### The LUMIX G80 in brief



1: Pop-up flash release 2: OLED Viewfinder 3: Free-angle 3-inch LCD touchscreen 4: Thumb control dial 5: Hot shoe 6: Mode dials 7: Index finger dial

Available in the following colours





# 4K G7

## FOR A NEW ALLIANCE BETWEEN PHOTO AND VIDEO

The LUMIX G7 takes photography a step further. It combines photo and video at a new level of quality. And with its 4K resolution it offers the stuff that photographic dreams are made of. Discover the LUMIX G family's multi-talented member today.

## THE ONE INTRODUCING 4K TO EVERYONE

CHANGING PHOTOGRAPHY



### TECHNICAL HIGHLIGHTS OF THE LUMIX G7

- **16MP Live MOS sensor** – for brilliant picture quality
- **4K Video** – for the very best detailed clarity
- **4K PHOTO** – never miss the perfect moment
- **Depth from Defocus (DFD) Autofocus** – fast and precise
- **Live Viewfinder (LVF)** – perfectly frame your shots
- **Free-angle Touchscreen** – 7,5 cm large display with 1.04 MP
- **Burst Shooting at 8 f/s and full resolution** – for faster shots
- **Wi-Fi functionality** – smart control via your smartphone or tablet



#### 4K PHOTO and Video



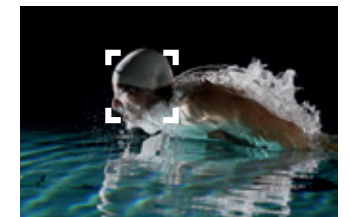
Now you'll never miss the perfect shot again. Thanks to the 4K PHOTO function, you can extract a still image from a video sequence. That means you're accessing a wealth of pictures taken at 30 images per second – any of which could make a dazzling 8 megapixel image for your photo album.

#### OLED Viewfinder and touchscreen



Like a bit of clarity? 2.4 million pixels in the G7's Viewfinder will help you get it. This is enabled by OLED technology. The backside display ensures that when you seek, you also find. The reproduced image automatically switches between the Viewfinder and display by means of an eye sensor. As you can see, the G7 adjusts itself to you in every sense.

#### Fast autofocus (DFD)



Fast and accurate – that's how we all want autofocus to be. But the hybrid contrast autofocus is even quicker and more precise. This is because of Depth from Defocus (DFD), which reduces focusing time and achieves a shooting delay of no more than 0.07 seconds. The G7's speed is of course especially useful when your aperture goes up.

#### The LUMIX G7 in brief



Available in the following colours



1: External microphone input 2: OLED Viewfinder 3: Free-angle 3-inch LCD touchscreen 4: Hot Shoe; 5: Mode dials 6: Thumb control dial 7: Index finger dial 8: Video record button



# 4K GX8

## FOR 4K EXCELLENCE AND CONSTANT READINESS

You don't get a second chance to make a first impression. Not that the GX8 needs a second chance: its appealing retro look quickly gets heads turning. Thanks to its new 20 megapixel sensor and dual image stabilisers, what begins with fascination will quickly turn to delight once you've taken your first photographs.

## THE ONE TAKING INCREDIBLE IMAGES

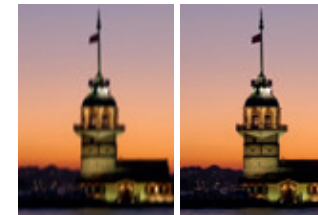
CHANGING PHOTOGRAPHY **G**

### TECHNICAL HIGHLIGHTS OF THE LUMIX GX8

- **20MP Live MOS sensor** – for our very best picture quality
- **DUAL I.S.** – combining body and lens stabilisation
- **4K Video** – for the very best detailed clarity
- **4K PHOTO** – never miss the perfect moment
- **Depth from Defocus (DFD) Autofocus** – fast and precise
- **Tiltable Live Viewfinder (LVF)** – perfectly frame your shots
- **Free-angle Touchscreen** – 7,5 cm large display with 1.04 MP
- **Splash and dust proof** – uncompromising in every situation



#### DUAL I.S. image stabiliser



Stability means strength – and that applies to photography as well. The DUAL I.S. image stabiliser means that an unsteady camera doesn't impact the shot negatively. This is the first time that an image stabiliser has been united in the lens and sensor-shift so as to better compensate for wobbling.

#### 20,3 megapixel sensor



The GX8's picture quality is breathtaking. A new 20,3 megapixel MOS sensor will have in you raptures. And together with our newly developed Venus Engine processor, it forms a genuine dream team, achieving exceptionally true colours and enormously detailed clarity. In short: moving pictures.

#### 4K PHOTO and Video



4K resolution produces pictures of a completely new quality. But this camera's photo and video features are also pioneering. You can choose from various continuous shooting modes, depending on the subject. And better still, shoot in video mode then extract your dream photo from the movie.

#### The LUMIX GX8 in brief



**1:** HDMI, AV OUT / DIGITAL, remote / mic socket **2:** Free-angle 3-inch OLED touch display **3:** Tiltable OLED Viewfinder **4:** Thumb finger dial **5:** Hot shoe  
**6:** Double mode dial **7:** Thumb control dial **8:** Index finger dial **9:** Video record button

Available in the  
following colours





# 4K GX80

## CAPTURING LIFE ON MOVE

When searching the streets for inspiration, the LUMIX GX80 reacts as quickly as you do. Dual Image Stabiliser helps you take crisper, clearer images in difficult or fast-moving environments, while the Post Focus function gives you the freedom to choose the focus point even after you have taken the shot.

## THE ONE CAPTURING LIFE ON MOVE

CHANGING PHOTOGRAPHY



### TECHNICAL HIGHLIGHTS OF THE LUMIX GX80

- **16MP Live MOS Sensor** – without low pass filter
- **DUAL I.S. (5-axis)** – combining body and lens stabilisation
- **4K Video** – recording in ultra high res
- **4K PHOTO** – never miss the perfect moment
- **Post Focus** – Shoot now, focus later
- **Depth from Defocus (DFD) Autofocus** – fast and intuitive focusing
- **Tiltable Touchscreen** – 7,5 cm large display with 1.04 MP
- **Live Viewfinder (LVF)** – perfectly frame your shots

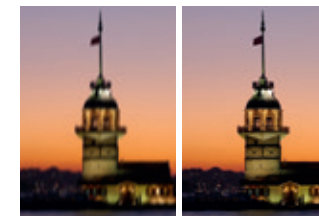


### 4K PHOTO



Our 4K PHOTO feature lets you capture the perfect moment by selecting a frame from a video sequence (shot at 30fps) in camera, and saving it as an individual high-res image. Simply shoot, select and save, to make those fleeting moments unmissable in every sense.

### DUAL I.S. image stabiliser



Ideal for capturing life on the go, the LUMIX GX80 integrates DUAL I.S. combining body and lens stabilisation to gain more powerful handshake correction and compensating your shots. The 5-axis DUAL I.S. works in both wide and telephoto photography and motion picture recording including 4K Video.

### Tiltable display



Thanks to its tiltable LCD display on the backside of the camera, you can control your shots and set focus without looking through the viewfinder. This makes the camera perfect for unnoticed street photography.

### The LUMIX GX80 in brief



1



2



3



4

5

7

6

Available in the following colours



1: LCD Viewfinder 2: Tiltable 3-inch LCD touchscreen 3: Thumb control dial 4: Hot shoe 5: Video record button 6: Mode dial 7: Index finger dial



# 4K GX800

## LOTS OF PERFORMANCE IN A SMALL PACKAGE

Can a compact body produce outstanding picture quality? The LUMIX GX800 proves it can. It also boasts extraordinary features in a very small space. It's perfect for social bloggers and photographers who want to stay connected and share their lifestyle.

## THE ONE THAT GETS THE MOST LIKES

CHANGING PHOTOGRAPHY



## TECHNICAL HIGHLIGHTS OF THE LUMIX GX800

- **16 MP Live MOS Sensor** – without low pass filter
- **Depth from Defocus (DFD) Autofocus** – fast and precise
- **Wi-Fi Connection & Easy Upload** – for instant posting
- **4K Video** – recording in ultra high res
- **4K PHOTO** – never miss the perfect moment
- **LCD Touchscreen** – 3-inch monitor for intuitive touch operation
- **4K Selfie** – advanced selfie functions



**NEW**

### Big image sensor



Some like sunshine, others like dusk and candlelight. But the GX800 likes every kind of light. A 16-megapixel Live MOS Sensor without low pass filter keeps track of every single detail – even when you're filming. It's a revelation for high-end photography.

### Wi-Fi and Easy Upload



Put your next post online with ease and inspire your followers. With Wi-Fi connectivity, you can instantly upload and share your pictures on social media using the 'Panasonic Image App' on your smartphone or tablet.

### Selfie Modes



Get the perfect selfie in stunning quality with a 180 degree tiltable screen and advanced selfie functions, including hands-free modes (Face Shutter, Buddy Shutter and Jump Snap) and the new Beauty Retouch, Panorama Selfie and Background Control features. You can even use 4K Photo in selfie mode to capture awesome selfies in action at 30 frames per second.

## The LUMIX GX800 in brief



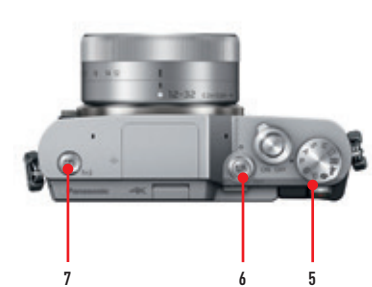
1



2

3

4



7

6

5

Available in the  
following colours



**1:** Live Viewfinder **2:** Tiltable 3-inch LCD touchscreen **3:** Flash release button **4:** Video record button **5:** Mode dial **6:** 4K PHOTO mode button **7:** Second Shutter for Selfies



FULL  
HD  
1920x1080p

# GF7

## EFFORTLESS CONVENIENCE AND PERFECT TECHNOLOGY

The LUMIX GF7 is picture-perfect in a dual sense. It boasts exceptional clarity, low noise and lots of details. And it's great to look at. With a folding display, you can take selfies, too.

THE ONE  
THAT'S GOT THE LOOK

CHANGING PHOTOGRAPHY



## TECHNICAL HIGHLIGHTS OF THE LUMIX GF7

- **16 MP Live MOS sensor** – for excellent picture quality
- **High-speed autofocus** – with 0.06 sec. shot delay and silent mode
- **Tiltable Touchscreen** – 7.5 cm large display with 1.04 MP
- **50p Full HD video recording** – with continuous autofocus
- **Wi-Fi and NFC™** – for comprehensive functionality
- **Fast Burst Shooting** – 5.8 f/s at full resolution (40 f/s at 4 MP)



### Wi-Fi control & NFC™ technology



Smartphone or tablet as a photo assistant? Of course – thanks to its Wi-Fi module and NFC™ technology (Near Field Communication). Put the devices together and they talk. You can make settings such as aperture, shutter speed, focusing, exposure compensation and more using your mobile device – and you can send photos, too.

### 180° tilt display



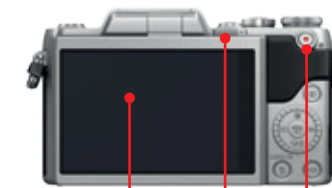
A large LCD display lets you keep tabs of everything. It shows you the entire image you're shooting, and with 1.04 million pixels it boasts top resolution. Because it can fold 180° upwards and 45° downwards, you can take in any direction you like – including perfect selfies any time and any place.

### Built-in pop-up flash



There are numerous technical features behind the compact exterior of the LUMIX GF7. That includes a foldout flash which only appears when you want it to and gives you scope for creative photographs.

## The LUMIX GF7 in brief



1 2 3



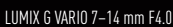
4 5 6

1: Tiltable 3-inch LCD touchscreen 2: Flash release button 3: Video record button 4: Second Shutter for Selfies 5: iA mode button 6: Mode dial

Available in the  
following colours







## CHANGING PHOTOGRAPHY

That special moment has arrived, the time is just right – so capture it with a LUMIX G lens.  
Discover the thrilling vicissitudes of photography and the ideal LUMIX G companion to deal with them.








































































# LENSES



## LENSES AND THEIR FOCAL LENGTHS – A COMPARISON

To help you find your way around, here is a list of all our lenses and their focal lengths. Take your time to compare them.

|                           |  |   |  | 20  | 30  | 40  | 50 | 60 | 70 | 80 | 90 | 100 | 200 | 300 | 600 | 900 |
|---------------------------|--|---|--|---|---|---|----|----|----|----|----|-----|-----|-----|-----|-----|
|                           |  |   |  | FOCAL LENGTH (35 mm camera equivalent)  |   |   |    |    |    |    |    |     |     |     |     |     |
| <b>ULTRA WIDE-ANGLE</b>   |  |   |  |   |   |   |    |    |    |    |    |     |     |     |     |     |
| H-F007014                 | 7–14 mm  |  F4.0 ASPH.  |  |    |   |   |    |    |    |    |    |     |     |     |     |     |
| <b>HIGH ZOOM</b>          |  |   |  |   |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS14140                 | 14–140 mm  |   F3.5–5.6 ASPH. POWER O.I.S.       |  |    |   |   |    |    |    |    |    |     |     |     |     |     |
| <b>STANDARD ZOOM</b>      |  |   |  |   |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS12032                 | 12–32 mm   |   F3.5–5.6 ASPH. MEGA O.I.S.        |  |    |   |   |    |    |    |    |    |     |     |     |     |     |
| H-HSA12035                | 12–35 mm   |  F2.8 ASPH. POWER O.I.S.   |  |    |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS12060                 | 12–60 mm   |   F3.5–5.6 ASPH. POWER O.I.S.   |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-ES12060                 |  12–60 mm   |   F2.8–4.0 ASPH. POWER O.I.S.   |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-PS14042                 | 14–42 mm   |   F3.5–5.6 ASPH. POWER O.I.S.   |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS1442A                 | 14–42 mm   |   F3.5–5.5 II ASPH. MEGA O.I.S. |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS014045                | 14–45 mm   |   F3.5–5.6 ASPH. MEGA O.I.S.    |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| <b>TELE ZOOM</b>          |  |   |  |   |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS35100                 | 35–100 mm  |   F4.0–5.6 ASPH. MEGA O.I.S.    |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-HSA35100                | 35–100 mm  |  F2.8 ASPH. POWER O.I.S.   |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FS45150                 | 45–150 mm  |   F4.0–5.6 ASPH. MEGA O.I.S.    |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-PS45175                 | 45–175 mm  |   F4.0–5.6 ASPH. POWER O.I.S.   |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FSA45200                | 45–200 mm  |   F4.0–5.6 ASPH. POWER O.I.S.   |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-FSA100300               | 100–300 mm   |   F4.0–5.6 MEGA O.I.S.          |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-RS100400                |  100–400 mm |   F4.0–6.3 POWER O.I.S.         |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| <b>FIXED FOCAL LENGTH</b> |  |   |  |   |   |   |    |    |    |    |    |     |     |     |     |     |
| H-X012                    |  12 mm      |  F1.4 ASPH.  |  |  |   |   |    |    |    |    |    |     |     |     |     |     |
| H-H014A                   | 14 mm  |  F2.5 ASPH.  |  |   |  |   |    |    |    |    |    |     |     |     |     |     |
| H-X015                    |  15 mm      |  F1.7 ASPH.  |  |   |  |   |    |    |    |    |    |     |     |     |     |     |
| H-H020A                   | 20 mm  |  F1.7 II ASPH.   |  |   |  |   |    |    |    |    |    |     |     |     |     |     |
| H-H025                    | 25 mm  |  F1.7 ASPH.  |  |   |  |   |    |    |    |    |    |     |     |     |     |     |
| H-X025                    |  25 mm      |  F1.4 ASPH.  |  |   |  |   |    |    |    |    |    |     |     |     |     |     |
| H-HS043                   | 43 mm  |  F1.7 ASPH. POWER O.I.S.   |  |   |   |  |    |    |    |    |    |     |     |     |     |     |
| H-NS043                   |  43 mm      |  F1.2 ASPH. POWER O.I.S.   |  |   |   |  |    |    |    |    |    |     |     |     |     |     |
| <b>MACRO</b>              |  |   |  |   |   |   |    |    |    |    |    |     |     |     |     |     |
| H-HS030                   | 30 mm  |  F2.8 ASPH. MEGA O.I.S.  |  |   |   |  |    |    |    |    |    |     |     |     |     |     |



# LENS TECHNOLOGY



## IF YOU'RE LOOKING FOR LENS DIVERSITY, YOU'LL LOVE PANASONIC

LUMIX G has got what you're looking for. We offer a total of 26 lenses, ranging from the traditional LEICA DG lenses, to our, super-compact LUMIX G 'X' lenses, all the way to standard lenses. Whatever equipment you need, we can offer it to you.



### LEICA DG LENSES

If you're looking for ultimate quality then you'll opt for LEICA. Their aspherical lenses and specialised, multi-treated surfaces comply with the rigorous standards of LEICA Camera AG.

The sophisticated design of these lenses produces brilliant clarity all the way to the edges, while reproducing lines with precision and avoiding the kind of distortions that usually occur in wide-angle photography. That means ideal conditions for top-level images without reflections or scatter-losses.

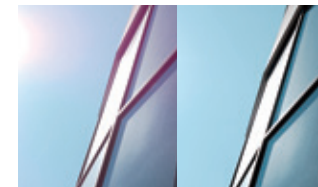
## PERFORMANCE LIES IN THE DETAILS

### HIGH-END LENSES FOR PICTURE-PERFECT RESULTS

When you develop a lens, the smallest of details matter. That's why the very highest quality standards are applied in the production of LUMIX G and LEICA lenses. All of our lenses are manufactured using a production system developed by Panasonic. From manufacture, to quality control, to packaging, we work

exclusively in clean-room environments to guarantee absolute flawlessness. We have also developed a dedicated instrument for final approval: the 'UA3P' conducts objective and numerical assessments with extreme precision. This allows us to check the lenses for criteria such as colour coating and flaring effects.

### Three steps to the outstanding LUMIX G lens



#### Multi-coating

The multi-coating process functions like a sealant. In a multi-coating procedure, nanostructures which suppress the formation of shadows and glare are applied to the lens. This is especially useful on lenses with pronounced curvature (such as wide-angle lenses) whose curved exterior is subject to incident light from all kinds of angles. The coating simply screens out such interference.



#### Nano surface coating

Put an end to troublesome reflections – the nano surface coating developed by Panasonic applies a special, ultra-thin film to the lens. This reduces bothersome reflections across the entire light spectrum and eliminates effects such as ghosting. That means crystal-clear pictures even if you're photographing a light source in the dark.



#### Aspherical lenses

Panasonic lenses offer outstanding picture quality in a small format. The secret lies in their aspherical design. A single aspherical lens has the same effect as multiple spherical lenses, but requires less space and weighs less as well. Panasonic has perfected this sophisticated production process and applies it in a wide range of lenses.

### POWERZOOM LENSES – LITTLE POWERHOUSES

LUMIX G Powerzoom lenses are ahead of their time – the Pancake and Tele Powerzoom lens have a fully automatic motor incorporated into drive the zoom, and the Tele Powerzoom has manual zoom as well. Because the lever for operating the Powerzoom is located on the lens itself, zooming is almost automatic.

This has benefits, especially when filming: for example you can determine the speed of the zoom so that you can capture subjects precisely even when zooming slowly. Or you can use the step-by-step zoom function to close in elegantly on the position you require. Now you can also focus quickly using a lever on the Pancake Powerzoom, and using the ring on the Tele Powerzoom. And you can monitor all of this in full size on your LCD display.



### IMAGE STABILISER – BRINGING BALANCE TO YOUR PHOTOGRAPHY

LUMIX G lenses have a good sense of balance because of their built-in image stabilisers. They immediately eliminate the kind of minor movements and vibrations that can so easily happen in photography.

But you won't notice any of it happening. In the end, you will be able to enjoy levelled horizons and wonderfully crisp images. You and your LUMIX G will have everything in a steady hand.







## ULTRA WIDE-ANGLE

PAGE 40



## FIXED FOCAL LENGTH

PAGE 46-48



## HIGH ZOOM

PAGE 41



## MACRO

PAGE 49



## STANDARD ZOOM

PAGE 42-43



## FISHEYE

PAGE 50



## TELE ZOOM

PAGE 44-45



## 3D

PAGE 51







LUMIX G VARIO 7-14 mm F4.0

# ULTRA WIDE-ANGLE

When you find yourself in a breathtaking landscape and wish to capture the moment, this compact lens will enable you to do so. A picture angle of 114° diagonal maximum facilitates fantastic shots.



LUMIX G VARIO 14-140 mm F3.5-5.6 ASPH.

# HIGH ZOOM

Creativity requires freedom. That's what the High Zoom lens offers you. Its 28 to 280 mm range (35 mm equivalent) will inspire your creativity and is complemented perfectly by an ultra-fast, high-precision autofocus system.



Available in the following colours



**H-F007014 | LUMIX G VARIO | 7-14 MM | F4.0 ASPH.**

**Picture angle:** 114°–75°

**Closest focusing distance:** 0,25 m

**Max. enlargement:** 0,08× (= 0,15× equivalent)

**Lens construction:** 16 elements in 12 groups

**Dimensions:** ø 70 × 83,1 mm

**Weight:** 300g



Available in the following colours



**H-FS14140 | LUMIX G VARIO | 14-140 MM | F3.5-5.6 ASPH. | POWER O.I.S.**

**Picture angle:** 75°–8,8°

**Closest focusing distance:** 0,3 m

**Max. enlargement:** 0,25× (= 0,5× equivalent)

**Lens construction:** 14 elements in 12 groups

**Filter size:** 58 mm

**Dimensions:** ø 67 × 75 mm; Weight: 265g





# STANDARD ZOOM

These lenses are fantastic for experimenting with angle of view, focal length, perspective and depth of focus. They offer enormous flexibility.



LUMIX G VARIO 12-35 mm F2.8



Available in the following colours



## H-HSA12035 | LUMIX G X VARIO | 12-35 MM | F2.8 ASPH. | POWER O.I.S.

**Picture angle:** 84°–34°

**Closest focusing distance:** 0,25 m

**Max. enlargement:** ca. 0,17× (= 0,34× equivalent)

**Lens construction:** 14 elements in 9 groups

**Filter size:** 58 mm

**Dimensions:** ø 67,6 × 73,8 mm; Weight: 305g



Available in the following colours



## H-FS12032 | LUMIX G VARIO | 12-32 MM | F3.5-5.6 ASPH. | O.I.S.

**Picture angle:** 84°–37°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** ca. 0,13× (= 0,26× equivalent)

**Lens construction:** 8 elements in 7 groups

**Filter size:** 37 mm

**Dimensions:** ø 55,5 × 24 mm; Weight: 70g



Available in the following colours



## H-FS12060 | LUMIX G VARIO | 12-60 MM | F3.5-5.6 ASPH. | POWER O.I.S.

**Picture angle:** 84°–20°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** 0,27× (= 0,54× equivalent)

**Lens construction:** 11 elements in 9 groups

**Filter size:** 58 mm

**Dimensions:** ø 66 × 71 mm; Weight: 210g



Available in the following colours



## H-ES12060 | LEICA DG VARIO-ELMARIT | 12-60 MM | F2.8-4.0 ASPH. | POWER O.I.S.

**Picture angle:** 84°–20°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** 0,17× (= 0,34× equivalent)

**Lens construction:** 14 elements in 12 groups

**Filter size:** 62 mm

**Dimensions:** ø 68,4 × 86 mm mm; Weight: 320g



Available in the following colours



## H-FS1442A | LUMIX G VARIO | 14-42 MM | F3.5-5.6 II ASPH. | MEGA O.I.S.

**Picture angle:** 75°–29°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** 0,17× (= 0,34× equivalent)

**Lens construction:** 9 elements in 8 groups

**Filter size:** 46 mm

**Dimensions:** ø 56 × 49 mm; Weight: 110g



Available in the following colours



## H-PS14042 | LUMIX G X VARIO PZ | 14-42 MM | F3.5-5.6 ASPH. | POWER O.I.S.

**Picture angle:** 75°–29°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** ca. 0,17× (= 0,34× equivalent)

**Lens construction:** 9 elements in 8 groups

**Filter size:** 37 mm

**Dimensions:** ø 61 × 26,8\* mm; Weight: 95g

\* Lens retracted.



Available in the following colours



## H-FS014045 | LUMIX G VARIO | 14-45 MM | F3.5-5.6 ASPH. | O.I.S.

**Picture angle:** 75°–27°

**Closest focusing distance:** 0,3 m

**Max. enlargement:** 0,17× (= 0,34× equivalent)

**Lens construction:** 12 elements in 9 groups

**Filter size:** 52 mm

**Dimensions:** ø 60 × 60 mm; Weight: 195g





# TELE ZOOM

Sports journalism, wildlife shots, people photography...  
With their wide focal length range and low weight, these  
lenses offer the full package.



LUMIX G VARIO 45-150 mm F4.0-5.6


Available in the  
following colours


## H-HSA35100 | LUMIX G X VARIO | 35-100 MM | F2.8 | POWER O.I.S.

Picture angle: 34°-12°

Closest focusing distance: 0,85 m

Max. enlargement: 0,1× (= 0,2× equivalent)

Lens construction: 18 elements in 13 groups

Filter size: 58 mm

Dimensions: ø 67,4 × 99,9 mm; Weight: 357g


Available in the  
following colours


## H-FSA35100 | LUMIX G VARIO | 35-100 MM | F4.0-5.6 ASPH. | O.I.S.

Picture angle: 34°-12°

Closest focusing distance: 0,9 m

Max. enlargement: 0,11× (= 0,22× equivalent)

Lens construction: 12 elements in 9 groups

Filter size: 46 mm

Dimensions: ø 55,5 × 50; mm Weight: 135g


Available in the  
following colours


## H-FS45150 | LUMIX G VARIO | 45-150 MM | F4.0-5.6 ASPH. | O.I.S.

Picture angle: 27°-8,2°

Closest focusing distance: 0,9 m

Max. enlargement: 0,17× (= 0,34× equivalent)

Lens construction: 12 elements in 9 groups

Filter size: 52 mm

Dimensions: ø 62 × 73 mm; Weight: 200g


Available in the  
following colours


## H-PS45175 | LUMIX G X VARIO PZ | 45-175 MM | F4.0-5.6 ASPH. | POWER O.I.S.

Picture angle: 27°-7,1°

Closest focusing distance: 0,9 m

Max. enlargement: ca. 0,2× (= 0,40× equivalent)

Lens construction: 14 elements in 10 groups

Filter size: 46 mm

Dimensions: ø 61,6 × 90 mm; Weight: 210g


Available in the  
following colours


## H-FSA45200 | LUMIX G VARIO | 45-200 MM | F4.0-5.6 | POWER O.I.S.

Picture angle: 27°-6,2°

Closest focusing distance: 1,0 m

Max. enlargement: ca. 0,19× (= 0,38× equivalent)

Lens construction: 16 elements in 13 groups

Filter size: 52 mm

Dimensions: ø 70 × 100 mm; Weight: 370g


Available in the  
following colours


## H-FSA100300 | LUMIX G VARIO | 100-300 MM | F4.0-5.6 | POWER O.I.S.

Picture angle: 12°-4,1°

Closest focusing distance: 1,5 m

Max. enlargement: 0,21× (= 0,42× equivalent)

Lens construction: 17 elements in 12 groups

Filter size: 67 mm

Dimensions: ø 73,6 × 126 mm; Weight: 520g


Available in the  
following colours


## H-RS100400 | LEICA DG VARIO-ELMAR | 100-400 MM | F4.0-6.3 ASPH. | POWER O.I.S.

Picture angle: 12°-3,1°

Closest focusing distance: 5,0 m

Max. enlargement: 0,25× (= 0,50× equivalent)

Lens construction: 20 elements in 13 groups

Filter size: 72 mm

Dimensions: ø 83 × 171,5 mm; Weight: 985g





# FIXED FOCAL LENGTH

With their high luminosity fixed focal lengths, accurate focusing and high contrast, these lenses will unlock a universe of visual creativity to you and achieve professional illustration quality at the same time.



LUMIX G VARIO 45-150 mm F4.0-5.6



LEICA DG SUMMILUX 15 mm F1.7



LEICA DG SUMMILUX 15 mm F1.7 ASPH.



Available in the following colours



## H-X012 | LEICA DG SUMMILUX | 12 MM | F1.4 ASPH.

**Picture angle:** 84°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** 0,11× (= 0,22× equivalent)

**Lens construction:** 15 elements in 12 groups (2 asphärische, 1 ED, 2 UED)

**Splash and dust proof**

**Filter size:** 62 mm

**Dimensions:** ø 70 × 70 mm, Weight: 335g



LEICA DG LENS



HD Video Support



Available in the following colours



## H-X015 | LEICA DG SUMMILUX | 15 MM | F1.7 ASPH.

**Picture angle:** 72°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** 0,1× (= 0,2× equivalent)

**Lens construction:** 9 elements in 7 groups

**Filter size:** 46 mm

**Dimensions:** ø 57,5 × 36 mm, Weight: 115g



LEICA DG LENS

HD Video Support



Available in the following colours



## H-H014A | LUMIX G | 14 MM | F2.5 ASPH.

**Picture angle:** 75°

**Closest focusing distance:** 0,18 m

**Max. enlargement:** 0,10× (= 0,20× equivalent)

**Lens construction:** 6 elements in 5 groups

**Filter size:** 46 mm

**Dimensions:** ø 55,5 × 20,5 mm, Weight: 55g



Available in the following colours



## H-H020A | LUMIX G | 20 MM | F1.7 II ASPH

**Picture angle:** 57°

**Closest focusing distance:** 0,2 m

**Max. enlargement:** 0,13× (= 0,25× equivalent)

**Lens construction:** 7 elements in 5 groups

**Filter size:** 46 mm

**Dimensions:** ø 63 × 25,5 mm, Weight: 87g



Available in the following colours



## H-H025 | LUMIX G | 25 MM | F1.7 ASPH.

**Picture angle:** 47°

**Closest focusing distance:** 0,25 m

**Max. enlargement:** ca. 0,14× (= 0,28× equivalent)

**Lens construction:** 8 elements in 7 groups

**Filter size:** 46 mm

**Dimensions:** ø 60,8 × 52 mm, Weight: 125g



HD Video Support



Available in the following colours



## H-X025 | LEICA DG SUMMILUX | 25 MM | F1.4 ASPH.

**Picture angle:** 47°

**Closest focusing distance:** 0,3 m

**Max. enlargement:** 0,11× (= 0,22× equivalent)

**Lens construction:** 9 elements in 7 groups

**Filter size:** 46 mm

**Dimensions:** ø 63 × 54,5 mm, Weight: 200g



LEICA DG LENS

HD Video Support





# FIXED FOCAL LENGTH

Fixed focal lengths give your creativity wings. Let light intensity and optical interpretation inspire you, and take perfect portraits with the H-NS043 or H-HS043.



LEICA DG NOCTICRON 42,5 mm F1.2

# MACRO

These macro lenses bring outstanding image results within reach, even if your subject is very close at hand and they can cope with image ratios of up to 1:1.



LUMIX G MACRO 30 mm F2.8



Available in the following colours



**H-NS043 | LEICA DG NOCTICRON | 42,5 MM | F1.2 ASPH. | POWER O.I.S.**

**Picture angle:** 29°

**Closest focusing distance:** 0,5 m

**Max. enlargement:** 0,1× (= 2,0× equivalent)

**Lens construction:** 14 elements in 11 groups

**Splash and dust proof**

**Filter size:** 67 mm

**Dimensions:** ø 74 × 76,8 mm; Weight: 425g



Available in the following colours



**H-ES045 | LEICA DG MACRO-ELMARIT | 45 MM | F2.8 ASPH. | O.I.S.**

**Picture angle:** 27°

**Closest focusing distance:** 0,15 m

**Max. enlargement:** 1,0× (= 2,0× equivalent)

**Lens construction:** 14 elements in 10 groups

**Filter size:** 46 mm

**Dimensions:** ø 63 × 62,5 mm; Weight: 225g



Available in the following colours



**H-HS043 | LUMIX G | 42,5 MM | F1.7 ASPH. | POWER O.I.S.**

**Picture angle:** 29°

**Closest focusing distance:** 0,31 m

**Max. enlargement:** 0,2× (= 0,4× equivalent)

**Lens construction:** 10 elements in 8 groups

**Filter size:** 37 mm

**Dimensions:** ø 74 × 50 mm; Weight: 130g



Available in the following colours



**H-HS030 | LUMIX G MACRO | 30 MM | F2.8 ASPH. | O.I.S.**

**Picture angle:** 40°

**Closest focusing distance:** 0,105 m

**Max. enlargement:** 1,0× (= 2,0× equivalent)

**Lens construction:** 9 elements in 9 groups

**Filter size:** 46 mm

**Dimensions:** ø 63 × 63,5 mm; Weight: 180g







LUMIX G FISHEYE 8 mm F3.5

# FISHEYE

Just 10 cm away from the subject – can you get everything in?  
Welcome to the fisheye lens. With an outstanding picture angle  
of 180 degrees there’s plenty of scope for your creative ideas.



Available in the  
following colours



## H-F008 | LUMIX G FISHEYE | 8 MM | F3.5

- Picture angle:** 180°
- Closest focusing distance:** 0,1 m
- Max. enlargement:** 0,20× (= 0,40× equivalent)
- Lens construction:** 10 elements in 9 groups
- Filter:** filter film holder on the back 22 × 22 mm
- Dimensions:** ø 60,7 × 51,7 mm; Weight: 165g



MICRO  
FOURTHS



# 3D

Big images, little lens. The 3D lens guarantees a new  
dimension of photographic fun. Just 2.5 cm long, it’s  
always at hand when you wish for a bit of depth.



Available in the  
following colours



## H-FT012 | LUMIX G | 12,5 MM | F12

- Picture angle:** 37°\*
- Closest focusing distance:** 0,6 m
- Max. enlargement:** 0,02× (= 0,1×\* equivalent)
- Lens construction:** 2 × 4 elements in 3 groups
- Dimensions:** ø 57 × 20,5 mm; Weight: 45g

\*Taken in 16:9 format with a GH3.



MICRO  
FOURTHS



FULL HD



# ACCESSORIES

Genuine Panasonic LUMIX G accessories offer you everything you need to complete your photographic equipment, from external flashes, to extra batteries, to cable releases.



**DMW-FL580L**  
Wireless control



**DMW-FL360L**  
Wireless control



**DMW-FL200L**



**VW-LED1**  
LED video light

## EXTERNAL FLASH UNITS

Provide the perfect lighting, even when shooting close-up subjects in the dark.



**DMW-LPL46E**  
Polarising filter available as DMW-LPLA37, DMW-LPL46E, DMW-LPL52E and DMW-LPL62E



**DMW-LND46E**  
ND filter available as DMW-LND46E and DMW-LND52E



**DMW-LMC46E**  
MC filter available as DMW-LMC46E, DMW-LMC52E and DMW-LMCH62E

## FILTERS

Protect your lenses and accentuate the visual impression of your images with Panasonic filters.



**DMW-MS2E**  
Stereo Shotgun Microphone



**DMW-MS1E**  
Stereo directional microphone



**VW-VMS10**  
Stereo microphone

## MICROPHONE

Microphones allow you to record ambient sound in much higher quality and from a greater distance away.



**DMW-BLF19E**  
(GH5)



**DMW-BLC12E**  
(GX8 / G7 / G80)



**DMW-BLG10E**  
(GX80)



**DMW-BLH7E**  
(GX800 / GF7)

## BATTERIES

Panasonic batteries simply provide better performance and safety. Discover them for yourself.



**microSD Cards 8 / 16 / 32 GB (SMGA)**  
4K Video support (100mbps)  
UHS Speed Class 1



**SD Cards 16 / 32 GB (SDUC)**  
4K Video support (240mbps)  
UHS Speed Class 3



**SD Cards 32 / 64 / 128 GB (SDUD)**  
4K Video support (240mbps)  
UHS Speed Class 3



**SD Cards 64 / 128 GB (SDZA)**  
Video Speed Class 90 (V90)  
UHS Speed Class 3

## MEMORY CARDS

NOTHING HAPPENS without them – Panasonic SD cards are the memory of your LUMIX G camera. Choose from 16, 32, 64 and 128 GB.



**DMW-PGH68**  
Neoprene bag



**DMW-PZH76**  
Soft bag with rain guard



**DMW-BGG1**  
(GH5)



**DMW-BGGH5**  
(GH5)

## BAGS

Our neoprene and nylon bags are functional and very stylish.

## BATTERY GRIP

Our battery grip with shutter release for the LUMIX GH5 and G80 offers improved control in portrait mode as well as more staying power.



**DMW-RSL1**

## CABLE RELEASE

If you want to take long exposure shots on a tripod, a cable release helps guarantee that your images won't blur.



**DMW-XLR1**  
(GH5)

## MICROPHONE ADAPTER

The DMW-XLR1 enables high-grade stereo recording with an attached XLR microphone (2 channels - left and right) for professional video production. Hi-Res sound recording at 96kHz / 24bit is also selectable.



**DMW-EC3**  
(GX8)

## EYECUP

We've got it covered – with the eyecup you'll always enjoy a perfect view of your subject.



**DMW-ZL1**

## ZOOM LEVER

Zoom in and out easily and smoothly when shooting videos – it's child's play with our optional zoom lever.



# TECHNICAL SPECIFICATIONS

|                                 | LUMIX DC-GH5  | LUMIX DMC-G80  | LUMIX DMC-G7   | LUMIX DMC-GX8   | LUMIX DMC-GX80  | LUMIX DC-GX800   | LUMIX DMC-GF7   |  |
|---------------------------------|---|--|--|---|---|--|---|--|
| <b>IMAGE SENSOR</b>             |   |  |  |   |   |  |   |  |
| Total pixels / Effective pixels | 21.77 / 20.3 Megapixels   | 16.84 / 16.00 Megapixels   | 16.84 / 16.00 Megapixels   | 21.77 / 20.30 Megapixels  | 16.84 / 16.00 Megapixels  | 16.84 / 16.00 Megapixels   | 16.84 / 16.00 Megapixels  |  |
| Body Image Stabiliser           | • (5-axis), DUAL I.S. 2   | • (5-axis), DUAL I.S. 2  | –  | • (4-axis), DUAL I.S.   | • (5-axis), DUAL I.S.   | –  | –   |  |
| <b>RECORDING SYSTEM</b>         |   |  |  |   |   |  |   |  |
| Recording file format           | Still image: JPEG [DCF, Exif 2.31], RAW<br>Motion picture: MOV (Audio format: LPCM), MPC (Audio format: AAC 2ch)<br>AVCHD (Audio format: Dolby Audio 2ch)   | Still image: JPEG [DCF, Exif 2.3], RAW, MP0<br>Motion picture: AVCHD (Audio format: Dolby Digital 2ch), MP4 (Audio format: AAC 2ch)  | Still image: JPEG [DCF, Exif 2.3], RAW, MP0<br>Motion picture: AVCHD (Audio format: Dolby Digital 2ch, MP4 (Audio format: AAC 2ch)   | Still image: JPEG [DCF, Exif 2.3], RAW, MP0<br>Motion picture: AVCHD (Audio format: Dolby Digital 2ch), MP4 (Audio format: AAC 2ch)   | Still image: JPEG [DCF, Exif 2.3], RAW, MP0<br>Motion picture: MP4 (Audio format: AAC 2ch), AVCHD (Audio format: Dolby Digital 2ch)   | Still image: JPEG [DCF, Exif 2.3], RAW, MP0<br>Motion picture: AVCHD (Audio format: Dolby Audio 2ch), MP4 (Audio format: AAC 2ch)  | Still image: JPEG [DCF, Exif 2.3], RAW, MP0<br>Motion picture: 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  | 4:3, 3:2, 16:9, 1:1  | 4:3, 3:2, 16:9, 1:1   | 4:3, 3:2, 16:9, 1:1   | 4:3, 3:2, 16:9, 1:1  | 4:3, 3:2, 16:9, 1:1   |  |
| Colour space                    | sRGB, AdobeRGB  | sRGB, AdobeRGB   | sRGB, Adobe RGB  | sRGB, Adobe RGB   | sRGB, Adobe RGB   | sRGB, Adobe RGB  | sRGB, Adobe RGB   |  |
| Still image size                | [4:3] 5184 × 3888(L) / 3712 × 2784(M) / 2624 × 1968(S) / 4992 × 3744 / 3328 × 2496<br>[3:2] 5184 × 3456(L) / 3712 × 2480(M) / 2624 × 1752(S) / 5184 × 3456 / 3504 × 2336<br>[16:9] 5184 × 2920(L) / 3840 × 2160(M) / 1920 × 1080(S) / 3840 × 2160<br>[1:1] 3888 × 3888(L) / 2784 × 2784(M) / 1968 × 1968(S) / 2880 × 2880   | [4:3] 4592 × 3448(L) / 3232 × 2424(M) / 2272 × 1704(S) / 1824 × 1368<br>[3:2] 4592 × 3064(L) / 3232 × 2160(M) / 2272 × 1520(S) / 1824 × 1216 <sup>1</sup><br>[16:9] 4592 × 2584(L) / 3840 × 2160(M) / 1920 × 1080(S) / 1824 × 1024 <sup>1</sup><br>[1:1] 3424 × 3424(L) / 2416 × 2416(M) / 1712 × 1712(S) / 1712 × 1712              | [4:3] 4592 × 3448(L) / 3232 × 2424 (M) / 2272 × 1704 (S) / 1824 × 1368 <sup>1</sup><br>[3:2] 4592 × 3064 (L) / 3232 × 2160 (M) / 2272 × 1520 (S) / 1824 × 1216 <sup>1</sup><br>[16:9] 4592 × 2584 (L) / 3840 × 2160 (M) / 1920 × 1080 (S) / 1824 × 1024 <sup>1</sup><br>[1:1] 3424 × 3424 (L) / 2416 × 2416 (M) / 1712 × 1712 (S) / 1712 × 1712 <sup>1</sup> | [4:3] 5184 × 3888 (L) / 3712 × 2784 (M) / 2624 × 1968 (S) / 1824 × 1368 <sup>1</sup><br>[3:2] 5184 × 3456 (L) / 3712 × 2480 (M) / 2624 × 1752 (S) / 1824 × 1216 <sup>1</sup><br>[16:9] 5184 × 2920 (L) / 3840 × 2160 (M) / 1920 × 1080 (S) / 1824 × 1024 <sup>1</sup><br>[1:1] 3888 × 3888 (L) / 2784 × 2784 (M) / 1968 × 1968 (S) / 1712 × 1712 <sup>1</sup> | [4:3] 4592 × 3448 (L) / 3232 × 2424 (M) / 2272 × 1704 (S) / 1824 × 1368 <sup>1</sup><br>[3:2] 4592 × 3064 (L) / 3232 × 2160 (M) / 2272 × 1520 (S) / 1824 × 1216 <sup>1</sup><br>[16:9] 4592 × 2584 (L) / 3840 × 2160 (M) / 1920 × 1080 (S) / 1824 × 1024 <sup>1</sup><br>[1:1] 3424 × 3424 (L) / 2416 × 2416 (M) / 1712 × 1712 (S) / 1712 × 1712 <sup>1</sup> | [4:3] 4592 × 3448 (L) / 3232 × 2424 (M) / 2272 × 1704 (S) / 1824 × 1368 <sup>1</sup><br>[3:2] 4592 × 3064 (L) / 3232 × 2160 (M) / 2272 × 1520 (S) / 1824 × 1216 <sup>1</sup><br>[16:9] 4592 × 2584 (L) / 3840 × 2160 (M) / 1920 × 1080 (S) / 1824 × 1024 <sup>1</sup><br>[1:1] 3424 × 3424 (L) / 2416 × 2416 (M) / 1712 × 1712 (S) / 1712 × 1712 <sup>1</sup>  | [4:3] 4592 × 3448 (L) / 3232 × 2424 (M) / 2272 × 1704 (S) / 1824 × 1368 <sup>1</sup><br>[3:2] 4592 × 3064 (L) / 3232 × 2160 (M) / 2272 × 1520 (S) / 1824 × 1216 <sup>1</sup><br>[16:9] 4592 × 2584 (L) / 3840 × 2160 (M) / 1920 × 1080 (S) / 1824 × 1024 <sup>1</sup><br>[1:1] 3424 × 3424 (L) / 2416 × 2416 (M) / 1712 × 1712 (S) / 1712 × 1712 <sup>1</sup> |  |
| Motion picture size             | MOV<br>e.g. [CAK] 4096 × 2160, 23.98p, 150Mbps / [4K] 3840 × 2160, 59.94p, 150Mbps / [Full HD] 1920 × 1080, 59.94p, 200Mbps *available in 59.94Hz / 50.00Hz   | –  | –  | –   | –   | –  | –   |  |
| AVCHD                           | e.g. [Full HD] 1920 × 1080, 59.94p, 28Mbps<br>*available in 59.94Hz / 50.00Hz   | [Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 50i: 17Mbps<br>[Full HD] 1920 × 1080 FHD / 50p / 24p: 24Mbps  | [Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 50i: 17Mbps<br>[Full HD] 1920 × 1080 FHD / 25p / 24p: 24Mbps  | [Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 50i: 17Mbps<br>[Full HD] 1920 × 1080 FHD / 25p / 24p: 24Mbps   | [Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 50i: 17Mbps<br>[Full HD] 1920 × 1080 FHD / 25p / 24p: 24Mbps   | [Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 50i: 17Mbps<br>[Full HD] 1920 × 1080 FHD / 25p / 24p: 24Mbps  | [Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 50i: 17Mbps<br>[Full HD] 1920 × 1080 FHD / 25p / 24p: 24Mbps   |  |
| MP4 / MOTION-JPEG               | e.g. [CAK] 4096 × 2160, 23.98p, 400Mbps<br>[4K] 3840 × 2160, 59.94p, 150Mbps<br>[Full HD] 1920 × 1080, 59.94p, 200Mbps<br>*available in 59.94Hz / 50.00Hz   | [4K] 3840 × 2160 4K / 30p / 25p: 100Mbps<br>[Full HD] 1920 × 1080 FHD / 60p / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 30p / 25p: 20Mbps<br>[HD] 1280 × 720 HD / 30p / 25p: 10Mbps   | [4K] 3840 × 2160 4K / 25p / 24p: 100Mbps<br>[Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 25p: 20Mbps<br>[HD] 1280 × 720 HD / 25p: 10Mbps   | [4K] 3840 × 2160 4K / 25p / 24p: 100Mbps<br>[Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 25p: 20Mbps<br>[HD] 1280 × 720 HD / 25p: 10Mbps  | [4K] 3840 × 2160 4K / 30p/25p / 24p: 100Mbps<br>[Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 25p: 20Mbps<br>[HD] 1280 × 720 HD / 25p: 10Mbps  | [4K] 3840 × 2160 4K / 30p/25p / 24p: 100Mbps<br>[Full HD] 1920 × 1080 FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080 FHD / 30p / 25p: 20Mbps<br>[HD] 1280 × 720 HD / 30p / 25p: 10Mbps   | [4K] 3840 × 2160 4K / 30p/25p / 24p: 100Mbps<br>[Full HD] 1920 × 1080, FHD / 50p: 28Mbps<br>[Full HD] 1920 × 1080, FHD / 25p: 20Mbps<br>[HD] 1280 × 720 HD / 25p: 10Mbps  |  |
| <b>FOCUS</b>                    |   |  |  |   |   |  |   |  |
| Type                            | Contrast AF system (DFD)  | Contrast AF system (DFD)   | Contrast AF system (DFD)   | Contrast AF system (DFD)  | Contrast AF system (DFD)  | Contrast AF system (DFD)   | Contrast AF system  |  |
| Focus Mode                      | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF   | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF  | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF  | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF   | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF   | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF  | AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF   |  |
| AF Mode                         | Face / Eye Detection / Tracking / 225-Area / Custom Multi / 1-Area / Pinpoint<br>(Full area touch is available) [Scalable AF frame size by Joystick] and flexible AF position (by front / rear dial)  | Face / Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint<br>(Full area touch is available)   | Face / Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint<br>(Full area touch is available)   | Face / Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint<br>(Full area touch is available)  | Face / Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint<br>(Full area touch is available)  | Face / Eye Detection / Tracking / 49-Area / Custom Multi / 1-Area / Pinpoint<br>(Full area touch is available)   | Face / Eye Detection / Tracking / 23-Area / 1-Area / Pinpoint<br>(Full area touch is available)   |  |
| <b>EXPOSURE CONTROL</b>         |   |  |  |   |   |  |   |  |
| Light metering mode             | Multiple / Center Weighted / Spot   | Multiple / Center Weighted / Spot  | Multiple / Center Weighted / Spot  | Multiple / Center Weighted / Spot   | Multiple / Center Weighted / Spot   | Multiple / Center Weighted / Spot  | Multiple / Center Weighted / Spot   |  |
| Exposure mode                   | Program AE, Aperture Priority AE, Shutter Priority AE, Manual   | Program AE, Aperture Priority AE, Shutter Priority AE, Manual  | Program AE, Aperture Priority AE, Shutter Priority AE, Manual  | Program AE, Aperture Priority AE, Shutter Priority AE, Manual   | Program AE, Aperture Priority AE, Shutter Priority AE, Manual   | Program AE, Aperture Priority AE, Shutter Priority AE, Manual  | Program AE, Aperture Priority AE, Shutter Priority AE, Manual   |  |
| ISO sensitivity                 | Still image: Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)<br>Creative Video Mode: Auto / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 (Changeable to 1/3 EV step)  | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) (Up to ISO6400 in motion picture recording) (ISO Auto in M mode)  | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) (Up to ISO6400 in motion picture recording) (ISO Auto in M mode)  | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) (Up to ISO6400 in motion picture recording) (ISO Auto in M mode)   | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) (Up to ISO6400 in motion picture recording) (ISO Auto in M mode)   | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)   | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step)  | Auto / Intelligent ISO / 100 (Extended) / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 (Changeable to 1/3 EV step) (Up to ISO3200 in motion picture recording) |
| Exposure compensation           | 1/3 EV step ±5EV (±3EV for motion picture)  | 1/3 EV step ±5EV (±3EV for motion picture)   | 1/3 EV step ±5EV (±3EV for motion picture)   | 1/3 EV step ±5EV (±3EV for motion picture)  | 1/3 EV step ±5EV (±3EV for motion picture)  | 1/3 EV step ±5 / EV (±3 / EV for motion picture)   | 1/3 EV step ±5 / EV (±3 / EV for motion picture)  |  |
| AE lock                         | • [AF / AE LOCK button]   | • [AF / AE LOCK button]  | Yes (AF/AE lock button)  | Yes (AF/AE lock button)   | Yes (AF / AE lock button)   | Set the Fn button in custom menu to AE lock  | Set the Fn button in custom menu to AE lock   |  |
| AE bracket                      | 3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ±3 EV, single / burst   | 3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ±3 EV, single / burst  | 3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. ±3 EV, single / burst  | 3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. ±3 EV, single / burst   | 3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. ±3 EV, single / burst   | 3, 5, 7 images in 1/3, 2/3 or 1 EV step, max. ±3 EV, single / burst  | 3, 5, 7 frames in 1/3, 2/3 or 1 EV Step, Max. ±3 EV, single / burst   |  |
| <b>WHITE BALANCE</b>            |   |  |  |   |   |  |   |  |
| White balance settings          | AWB / AWBc / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting 1, 2, 3, 4  | Auto / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting  | Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting  | Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting   | Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting   | Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2, 3, 4 / Colour temperature setting  | Auto / Daylight / Cloudy / Shade / incandescent / Flash / White Set 1, 2 / Colour temperature setting   |  |
| White balance adjustment        | Blue / Amber bias, Magenta / Green bias   | Blue / Amber bias, Magenta / Green bias  | Blue / Amber bias, Magenta / Green bias  | Blue / Amber bias, Magenta / Green bias   | Blue / Amber bias, Magenta / Green bias   | Blue / Amber bias, Magenta / Green bias  | Blue / Amber bias, Magenta / Green bias   |  |
| Creative modes                  | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome  | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome   | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome   | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia   | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome  | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome   | e.g. Expressive / Retro / Old Days / High Key / Low Key / Sepia / Monochrome  |  |
| <b>SHUTTER</b>                  |   |  |  |   |   |  |   |  |
| Shutter Speed                   | Still image: Bulb (Max. 30 minutes), 1/8,000–60; Electronic first curtain shutter: Bulb (Max. 30 minutes), 1/2,000–60; Electronic shutter: 1/16,000–1; Motion picture: 59.94Hz: 1/16,000–1/30, 50.00Hz: 1/16,000–1/25, 23.98Hz: 1/16,000–1/24 (When using Synchro Scan)   | Still image: Bulb (Max. 2 minutes), 1/4,000–60; Motion picture: 1/16,000–1/30; Electronic shutter: 1/16,000–1; Electronic first curtain shutter: 1/2,000–60  | Still image: Bulb (Max. 2 minutes), 1/4,000–60; Motion picture: 1/16,000–1/25; Electronic shutter: 1/16,000–1  | Still image: Bulb (Max. 30 minutes), 1/8,000–60; Motion picture: 1/16,000–1/25; Electronic shutter: 1/16,000–1  | Still image: Time (Max. 2 minutes), 1/4,000–60; Motion picture: 1/16,000–1/25; Electronic shutter: 1/16,000–1   | Still image: Time (Max. 60 second), 1/16,000–60 (Shutter type Auto) Motion picture: 1/16,000–1/25  | Still image: Time (Max. 60 second), 1/16,000–60 (Shutter type Auto) Motion picture: 1/16,000–1/25   |  |
| Remote Control                  | Remote control with Bulb function by DMW-RSL1 (sold separately)   | –  | Remote control with Bulb function by DMW-RSL1 (Optional)   | Remote control with Bulb function by DMW-RSL1 (Optional)  | –   | –  | –   |  |
| <b>BURST SHOOTING</b>           |   |  |  |   |   |  |   |  |
| Burst speed                     | Mechanical shutter: AFS / MF: H: 12 frames / sec, M: 7 frames / sec (with Live View), L: 2 frames / sec (with Live View), AFF / AFC: H: 9 frames / sec, M: 7 frames / sec (with Live View), L: 2 frames / sec (with Live View),<br>Electronic shutter: AFS / MF: H: 12 frames / sec, M: 7 frames / sec (with Live View), L: 2 frames / sec (with Live View), AFF / AFC: H: 9 frames / sec, M: 7 frames / sec (with Live View), L: 2 frames / sec (with Live View) | Mechanical shutter: H: 9 frames / sec (with AFS), H: 6 frames / sec (with AFC) M: 6 frames / sec (with Live View), L: 2 frames / sec (with Live View)<br>Electronic shutter: SH: 40 frames / sec, H: 10 frames / sec (with AFS), H: 6 frames / sec (with AFC) M: 6 frames / sec (with Live View), L: 2 frames / sec (with Live View) | Mechanical shutter: H: 8 frames / sec (with AFS), 6 frames / sec (with AFC), M: 6 frames / sec (with Liveview), L: 2 frames / sec (with Liveview)<br>Electronic shutter: SH: 40 frames / sec, H: 10 frames / sec, M: 6 frames / sec (with Liveview), L: 2 frames / sec (with Liveview)   | Mechanical shutter: H: 8 frames / sec (with AFS), 6 frames / sec (with AFC), M: 5.5 frames / sec (with AFS), 6 frames / sec (with AFC), L: 2 frames / sec (with Liveview); Electronic shutter: H: 10 frames / sec (with AFS), 6 frames / sec (with AFC), M: 6 frames / sec (with Liveview), L: 2 frames / sec (with Liveview)                                 | Mechanical shutter: H: 8 frames / sec (with AFS), 6 frames / sec (with AFC), M: 6 frames / sec (with Live View), L: 2 frames / sec (with Live View); Electronic shutter: SH: 40 frames / sec, H: 10 frames / sec (with AFS), 6 frames / sec (with AFC), M: 6 frames / sec (with Live View), L: 2 frames / sec (with Live View)                                | Mechanical shutter: AFS: H: 5.8 frames / ssec, M: 4 frames / sec (with Live View), L: 2 frames / sec (with Live View), AFC: H: 5 frames / sec (in 1-area-focusing AF mode), M: 5 frames / sec (with Live View), L: 2 frames / sec (with Live View); Electronic shutter: AFS: H: 10 frames / sec, M: 4 frames / sec, L: 2 frames / sec (with Live View), AFC: H: 6 frames / sec, M: 6 frames / sec (with Live View), L: 2 frames / sec (with Live View) | Mechanical shutter: H: 5.8 frames / sec (with AFS), 5 frames / sec (with AFC, in 1-area-focusing AF mode), M: 4 frames / sec (with Liveview), Electronic shutter: SH: 40 frames / sec, H: 10 frames / sec, M: 4 frames / sec, L: 2 frames / sec (all with Liveview)   |  |
| Number of recordable images     | More than 60 images (when there are RAW files with the particular speed) [TBD]<br>More than 600 images (when there are no RAW files)  | More than 45 images (when there are RAW files with the particular speed)<br>More than 300 images (when there are no RAW files)   | More than 13 images (when there are RAW files with the particular speed)<br>More than 100 images (when there are no RAW files)   | More than 30 images (when there are RAW files with the particular speed)<br>More than 100 images (when there are no RAW files)  | More than 13 images (when there are RAW files with the particular speed)<br>More than 100 images (when there are no RAW files)  | More than 15 images (when there are RAW files with the particular speed)<br>More than 100 images (when there are no RAW files)   | 7 images (When there are RAW files with the particular speed.)<br>39 images (SH mode. When there are no RAW files.)   |  |
| 6K Photo / 4K Photo Mode        | 6K Burst (S / S): 30 frames / sec<br>4K Burst (S / S): 60 frames / sec, 30 frames / sec   | 4K Pre-Burst: 30 frames / sec, approx. 2 seconds<br>4K Burst: 30 frames / sec, max. 29 minutes 59 seconds<br>4K Burst (S / S): 30 frames / sec, max. 29 minutes 59 seconds   | 4K Pre-Burst: 30 frames / sec, approx. 2 seconds<br>4K Burst: 30 frames / sec, max. 29 minutes 59 seconds<br>4K Burst (S / S): 30 frames / sec, max. 29 minutes 59 seconds   | 4K Pre-Burst: 30 frames / sec, approx. 2 seconds<br>4K Burst: 30 frames / sec, max. 29 minutes 59 seconds<br>4K Burst (S / S): 30 frames / sec, max. 29 minutes 59 seconds  | 4K Pre-Burst: 30 frames / sec, approx. 2 seconds<br>4K Burst: 30 frames / sec<br>4K Burst (S / S): 30 frames / sec  | 4K Burst: 30 frames / sec<br>4K Burst (S / S): 30 frames / sec<br>4K Pre-Burst: 30 frames / sec, approx. 2 seconds   | –   |  |
| <b>FLASH</b>                    |   |  |  |   |   |  |   |  |
| Flash type                      | TTL External Flash (sold separately)  | TTL Built-in-Flash, GN9.0 equivalent (ISO200-m) / GN6.2 equivalent (ISO100-m), Built-in Pop-up (Reference)   | TTL Built-in-Flash, GN9.3 equivalent (ISO200-m) / GN6.6 equivalent (ISO100-m), Built-in Pop-up (Reference)   | TTL External Flash (sold separtely)   | TTL Built-in-Flash, GN6.0 equivalent (ISO 200-m) / GN4.0 equivalent (ISO 100-m), Built-in Pop-up (Reference)  | TTL Built-in-Flash, GN5.6 equivalent (ISO200-m) / GN4.0 equivalent (ISO100-m), Built-in Pop-up (Reference)   | TTL Built-in-Flash, GN5.6 equivalent (ISO 200-m), GN4.0 equivalent (ISO 100-m), Built-in Pop-up (Reference)   |  |
| Flash mode                      | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.   | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.  | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.  | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.   | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.   | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.  | Auto*, Auto / Red-eye Reduction*, Forced On, Forced On / Red-eye Reduction, Slow Sync., Slow Sync. / Red-eye Reduction, Forced Off* For iA, iA+ only.   |  |
| Synchronisation speed           | Less than 1/250 second  | Less than 1/160 second   | Less than 1/160 second   | Less than 1/160 second  | Less than 1/160 second  | Less than 1/50 second  | Less than 1/50 second   |  |
| Flash output adjustment         | 1/3EV step ±3EV   | 1/3EV step ±3EV  | 1/3EV step ±3EV  | 1/3EV step ±3EV   | 1/3EV step ±3EV   | 1/3EV step ±2EV  | 1/3EV step ±2EV   |  |
| Hot shoe                        | •   | •  | •  | •   | •   | –  | –   |  |
| <b>OPERATION</b>                |   |  |  |   |   |  |   |  |
| Rear monitor                    | TFT LCD monitor with static touch control, Free-angle 3.2-inch (8.0cm) / 3:2 aspect / Wide viewing angle, Approx. 1,620k dots, Approx. 100% Field of view   | TFT LCD monitor with static touch control, Free-angle 3-inch (7.5cm) / 3:2 aspect / Wide viewing angle, Approx. 1,620k dots, Approx. 100% Field of view  | TFT LCD monitor with static touch control, Free-angle 7.5 cm / 3:2 aspect / Wide viewing angle, Approx. 1,040k dots, Approx. 100% Field of view  | OLED monitor with static touch control, Free-angle 7.5 cm / 3:2 aspect / Wide viewing angle, Approx. 1,040k dots, Approx. 100% Field of view  | TFT LCD monitor with static touch control, Tilttable 3-inch (7.5 cm) / 3:2 aspect / Wide viewing angle, Approx. 1040k dots, Approx. 100% Field of view  | –  | TFT LCD monitor with static touch control, Tilttable monitor, 3-inch / 3:2 aspect / Wide viewing angle, Approx. 1040k dots, Approx. 100% Field of view  |  |
| Viewfinder                      | OLED Live View Finder (2,368k dots)   | OLED Live Viewfinder (2,360k dots)   | OLED Live Viewfinder (2,360k dots)   | OLED Live Viewfinder (2,360k dots)  | LCD Live Viewfinder (2,765k dots equivalent)  | –  | –   |  |
| Wi-Fi                           | IEEE 802.11a / b / g / n / ac 5GHz Wi-Fi is not available in some countries. Please refer to "Wi-Fi" Sheet  | IEEE 802.11b / g / n, 2412 MHz–2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode   | IEEE 802.11b / g / n, 2412 MHz–2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode   | IEEE 802.11b / g / n, 2412 MHz–2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode  | IEEE 802.11b / g / n, 2412 MHz–2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode  | IEEE 802.11b / g / n, 2412 MHz – 2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode   | IEEE 802.11b / g / n, 2412 MHz–2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode  |  |
| Dust- / Splash- / Freezeproof   | • / • / •   | • / • / –  | –  | • / • / –   | –   | –  | –   |  |
| <b>INTERFACE</b>                |   |  |  |   |   |  |   |  |
| Recording media                 | SD Memory Card, SDHC Memory Card, SDXC Memory Card  | SD Memory Card, SDHC Memory Card, SDXC Memory Card   | SD Memory Card, SDHC Memory Card, SDXC Memory Card   | SD Memory Card, SDHC Memory Card, SDXC Memory Card  | SD Memory Card, SDHC Memory Card, SDXC Memory Card  | microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card  | SD Memory Card, SDHC Memory Card, SDXC Memory Card  |  |
| USB                             | USB Type-C, Super Speed USB3.1 GEN1   | USB Type-C, Super Speed USB3.1 GEN1  | USB 2.0 High Speed Multi   | USB 2.0 High Speed Multi  | USB 2.0 Micro-B   | USB 2.0 Micro-B  | USB 2.0 High Speed Multi  |  |
| HDMI                            | HDMI TypeA / VIERA Link, Audio: Stereo<br>59.94Hz: Auto / 4K / 60p / 4K / 30p / 1080p / 1080i / 720p / 480p<br>50.00Hz: Auto / 4K / 50p / 4K / 25p / 1080p / 1080i / 720p / 576p  | microHDMI TypeD / VIERA Link, Video: Auto / 4K / 1080p / 1080i / 720p / 576p; Audio: Stereo; Monitor-through: 4:2-2/8-bit  | microHDMI TypeD / VIERA Link, Video: Auto / 4K / 1080p / 1080i / 720p / 480p (576p in PAL system); Audio: Stereo   | microHDMI TypeD / VIERA Link : Video: Auto / 4K / 1080p / 1080i / 720p / 576p (Audio: Stereo)   | microHDMI TypeD / VIERA Link, Video: Auto / 4K / 1080p / 1080i / 720p / 576p; Audio: Stereo   | microHDMI TypeD / VIERA Link, Video: Auto / 4K / 1080p / 1080i / 720p / 576p; Audio: Stereo  | microHDMI TypeD / VIERA Link, Video: Auto /   |  |



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