

# LUMIX

# Panasonic

ideas for life

DIGITAL IMAGING BROCHURE

2011



BE READY FOR  
THE MOMENT



# Ten years of innovation

10<sup>th</sup>  
ANNIVERSARY

## LUMIX



### 2010

- The World's First Interchangeable Lens System Camera with Touch-Screen Operation (DMC-G2)
- The World's First Intelligent Resolution Technology Featured in Compact Camera (TZ10/ZS7)



### 2009

- The World's Smallest and Lightest Interchangeable Lens System Camera with Built in Flash (DMC-GF1)
- The World's Smallest Interchangeable Lens System Camera with Full-HD Movie Recording (DMC-GH1)
- Compact Models with AVCHD Lite Movie Recording (TZ7/ZS3)(FT1/TS1)
- Face Recognition That Remembers Registered Faces (FX40/FX48)



### 2008

- The World's First Interchangeable Lens System Camera with Mirror-Less Structure Adopting Micro Four Thirds System Standard (DMC-G1)
- The World's First AF Tracking with Touch-Screen Operation (FX500/FX520)



### 2007

- The World's First Intelligent Auto Technology for Error-Free Shooting (FX55/FX33)



### 2006

- The First D-SLR LUMIX Camera Adopting Four Thirds System Standard (L1)
- The World's First Motion Detection Function Preventing Motion Blur (FX07/FX50)
- Traveler Zoom – The World's Smallest\* 10x Optical Zoom Lens in an Ultra-Compact Body (TZ1) \*For a single lens digital camera
- 28mm Wide-Angle Lens for Compact Models (FX01)



### 2005

- The World's First 16 : 9 CCD with Wide-Angle Leica DC Lens (LX1)



### 2004

- Full Manual Controls with Large-Aperture F2.0 Leica DC Lens (LC1)
- Large LCD and Optical Image Stabiliser in a Stylish Compact Body (FX7)



### 2003

- The World's First Optical Image Stabiliser for Stylish Compact Models (FX5/FX1)



### 2002

- Full-Range F2.8 12x Optical Zoom Lens with Optical Image Stabiliser Featured in a Compact Model (FZ1)



### 2001

- The First Codedeveloped with Panasonic and Leica Featuring F2.0 LEICA DC VARIO-SUMMICRON Lens (LC5)

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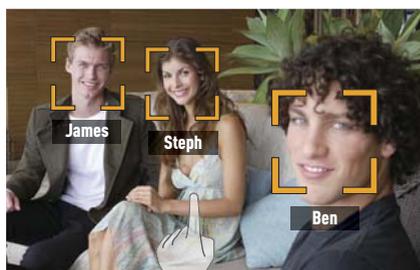


Accessories Page 25 ▶



## **iA** PHOTO & MOVIE Intelligent Auto Still

The intelligent Auto (iA) Mode on LUMIX cameras makes capturing perfect pictures as easy as aim and shoot. Together with intelligent resolution technology, this smart function automatically activates seven advanced detection and correction systems that ensure every picture you take is as clear and sharp as you want it to be.



### **FACE RECOGNITION – SELECT FACES**

This clever function 'remembers' up to six registered faces. When it recognises familiar faces, Face Recognition optimises the focus and exposure on up to three faces at the same time – for great photos of loved ones in a group.



### **INTELLIGENT ISO CONTROL – CLEAR ACTION SHOTS**

Automatically adjusts the ISO settings and shutter speed to prevent motion blur when the subject is moving as you shoot, delivering photos that are clear and sharp.



### **AF TRACKING – NEVER MISS A MOMENT**

Simply focus on your subject. AF Tracking automatically and continuously keeps it in focus so you never miss a moment – and always get a sharp shot.

## **iA** PHOTO & MOVIE Intelligent Auto HD Movie

The press of a button is all it takes to begin filming your world in the outstanding High Definition format (1920 x 1080 or 1080 x 720). LUMIX cameras with AVCHD HD movie recording also feature intelligent Auto (iA), so you can capture all you see – carefree.



### **POWER O.I.S. – BEAUTIFUL NIGHT SCENES**

With double the corrective power of previous models<sup>1</sup>, POWER O.I.S. gives you ultra-sharp photos when shooting at slower shutter speeds – for beautiful scenes at night or in low light.

<sup>1</sup>Panasonic comparison



**FACE DETECTION – PERFECT FACES**

Determines if there are any faces in the scene and adjusts the focus and exposure to capture them perfectly. Digital processing minimises red-eye when shooting with the flash.



**INTELLIGENT EXPOSURE – CAPTURE MORE NATURAL SCENES**

The brightness is automatically corrected in case of insufficient lighting, backlighting or when using the flash.



**INTELLIGENT SCENE SELECTION – IDEAL SETTINGS**

This system selects the ideal scene mode. Stills: Macro, Night Portrait, Portrait, Scenery, Night Scenery, Handheld Night Shot and Sunset. Movies: Macro, Portrait, Scenery and Low Light.

## Advanced MOS Sensor – High Quality and Speed



**HIGH-SPEED PICTURE AND MOVIE-TAKING** LUMIX offers high-speed burst shooting of up to 11fps in full-resolution 14 megapixels – with supreme image quality. And ultra high-speed continuous shooting of 60fps captures every split-second movement. When recording motion images, LUMIX uses the QVGA format (320 x 240) at an amazing 220fps. With such lightning speed, you can even capture every slight movement not caught by the naked eye.



**QUALITY LOW-LIGHT SHOOTING** For the effective concentration of light, the newly developed MOS sensor adopts micro high-sensitivity resolution technology with an advanced micro light tube structure to prevent colour mixture and signal loss. The result is outstanding clarity with photos and movies shot at any sensitivity, from low to high.



**AVCHD FULL HD RECORDING** So you can enjoy watching your own short movies in stunning picture quality, the latest LUMIX cameras feature AVCHD 50i, which can record Full High Definition motion pictures (1920 x 1080). AVCHD also enables longer recording times and high compatibility with a range of audio-visual equipment.



## Intelligent Resolution Technology

Intelligent Resolution enables the recording of beautiful photos and High Definition movies with higher quality signal processing.



### Outline areas

Detects outlines and enhances parts that would otherwise seem fuzzy.

### Texture areas

Raises apparent resolution in detailed areas to show them more clearly.

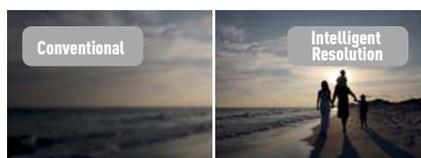
### Soft gradation areas

Suppresses noise to give clean impression in areas where there is little variation.

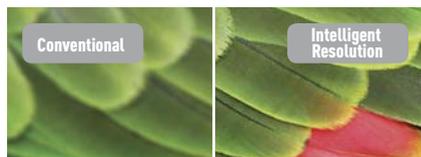


### SHARPER ZOOM PICTURES WITH INTELLIGENT ZOOM

With the outstanding optical zoom in Panasonic LUMIX cameras, you can get really close to the action without losing any detail. When using Intelligent Zoom, you can further increase your zoom power while maintaining excellent image quality. This new zoom technology is based on enhancements in image processing. Just enjoy stunning close-up images with the powerful Intelligent Zoom!



**INTELLIGENT RESOLUTION** This technology automatically detects three areas: outlines, detailed textures and soft gradations. Outlines are enhanced to give the edges more clarity, while texture areas are moderately accentuated to refine their details. The Venus Engine superior noise reduction system, meanwhile, is applied to smoothen soft gradations. Apart from uniformly enhancing sharpness, the innovative Intelligent Resolution technology performs precise pixel-by-pixel signal processing to produce the most effective outcome. As a result, the images – photographs and movie recordings alike – are naturally clear and crisp.



**WIDE ANGLE – CAPTURE THE TOTAL PICTURE** When you want to shoot a picture of all your friends when space is tight, there is no real substitute for a wide-angle lens. Because the viewing area of the 24mm wide-angle lens is double the size of a standard 35mm lens, you can fit much more of the scene into the frame.



**LEICA LENS – SUPERB OPTICS** To bring out the very best in the high-performance technology inside, the majority of LUMIX cameras feature a superb LEICA DC lens. Coveted by professional photographers around the world, advanced LEICA DC lenses are renowned for providing clear, sharp images with every picture.



**EASY TOUCH OPERATION** The touch-screen operation enables you to 'shoot' and 'play back' intuitively and seamlessly. The easy touch-controlled shooting modes on the large 3.0" intelligent LCD include the Touch Shutter, Touch AF Tracking and Touch Zoom. During playback you can not only slide images with your fingertip but also zoom in at a touch.



**MAP YOUR MEMORIES** The GPS function automatically records latitude/longitude and displays information such as country, city or sight on the screen during shooting or playback. All GPS-tagged photos and movies are automatically sorted in a virtual folder for quick access.



**3D PHOTO ASSIST MODE** With select LUMIX cameras<sup>2</sup>, you can take 3D photos by simply switching to the 3D Mode. Slide the camera and take 10 images with high-speed shooting. The camera automatically picks up the best two images and creates an impressive 3D image, which is easy to play back on your 3D VIERA.

<sup>2</sup> TZ20, FT3, FX77





LUMIX

DMC-TZ20

Available colours:



### The Perfect Super-Zoom Travel Companion

- 16x Optical Zoom (35mm equivalent 24–384mm) with 21x Intelligent Zoom
- 24mm Wide-Angle LEICA DC Lens (F3.3–5.9)
- Full HD Movie 1080/50i AVCHD Recording with 14.1-Megapixel MOS Sensor
- Intelligent Auto Mode for Movies and Photos
- GPS Tagging Showing Name of Country, City and Sight
- 7.5cm (3.0-Inch) Wide-Angle Touch Screen
- 3D Photo Mode



DMW-MCTZ20

Marine Case for TZ20/TZ18



DMW-BCG10E

Battery



DMW-PHH13XEK

Leather Case





## DMC-TZ18

Available colours:



### Slim Travel Camera with Large Zoom

- 16x Optical Zoom (35mm equivalent 24–384mm) with 20x Intelligent Zoom
- 24mm Wide-Angle LEICA DC Lens (F3.3–5.9)
- HD Movie 720p Motion JPEG Recording
- Intelligent Auto Mode, including POWER O.I.S.
- Full Manual Operation
- 7.5cm (3.0-Inch) Intelligent LCD



## DMC-FZ100

Available colours:



### Ready for Fast Action, Highest Zoom Range

- 24x Optical Zoom (35mm equivalent 25–600mm) with 32x Intelligent Zoom
- 25mm Wide-Angle LEICA DC VARIO-ELMARIT Lens (F2.8–5.2)
- Full HD Movie 1080/50i AVCHD Recording with 14.1-Megapixel MOS Sensor
- Intelligent Auto Mode for Movies and Photos
- High-Speed Burst Shooting of 11fps in Full Resolution
- Full Manual Operation



## DMC-FZ45

Available colours:



### From Wide Angle to Extreme Telephoto

- 24x Optical Zoom (35mm equivalent 25–600mm) with 32x Intelligent Zoom
- 25mm Wide-Angle LEICA DC VARIO-ELMARIT Lens (F2.8–5.2)
- HD Movie 720p AVCHD Lite Recording
- Intelligent Auto Mode for Movies and Photos
- 14.1-Megapixel CCD
- Full Manual Operation







## DMC-LX5

Available colours:



### Full Manual Mode and Bright LEICA Lens

- 3.8x Optical Zoom (35mm equivalent 24–90mm) with 5x Intelligent Zoom
- 24mm Wide-Angle LEICA DC VARIO-SUMMICRON Lens (F2.0–3.3)
- HD Movie 720p AVCHD Lite Recording
- Intelligent Auto Mode for Movies and Photos
- High-Sensitivity CCD with 10.1 Megapixels
- Full Manual Operation with Easy Click Wheel
- 7.5cm (3.0-Inch) Intelligent LCD (460K-dot resolution) with 3:2 Ratio



January 2011



AVCHD Lite

### DMW-CLX5

Carrying Case for LX5



### DMW-LVF1

Live Viewfinder for LX5



### DMW-LWA52E

Wide Conversion Lens





## DMC-FT3

Available colours:



Screen size: 7.5cm (3.0-Inch)

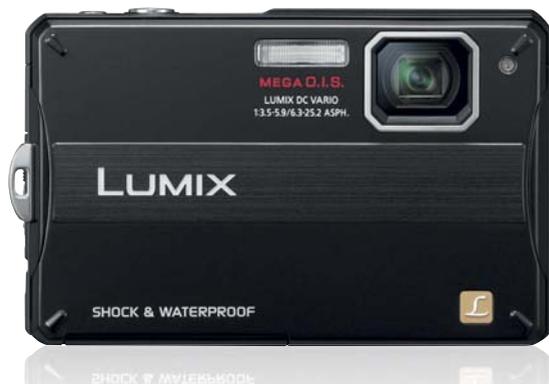
### Tough and Waterproof Camera for All Outdoor Activities

- 12m Waterproof, 2m Shockproof, -10°C Freezeproof, Dustproof
- 4.6x Optical Zoom (35mm equivalent 28–130mm) with 6x Intelligent Zoom
- 28mm Wide-Angle LEICA DC Lens (F3.3–5.9)
- Full HD Movie 1080/50i AVCHD Recording with 12.1-Megapixel Hi-Speed CCD
- Intelligent Auto Mode, including POWER O.I.S.
- GPS Tagging, Altimeter, Barometer and Compass
- 3D Photo Mode



Individual specifications for LUMIX DMC-FT3 and LUMIX DMC-FT10





## DMC-FT10

Available colours:



### The Perfect Companion for Sports and Action

- 3m Waterproof, 1.5m Shockproof, -10°C Freezeproof, Dustproof
- 4x Optical Zoom (35mm equivalent 35–140mm, F3.5–5.9)
- HD Movie 720p Motion JPEG Recording
- Intelligent Auto Mode, including Intelligent Scene Selector
- 14.1-Megapixel CCD
- 6.7cm (2.7-Inch) Intelligent LCD



## DMC-FT2

Also available.

10m Waterproof, 2m Shockproof, -10°C Freezeproof, Dustproof. Available in Yellow, Blue and Orange.

For further details please refer to [www.panasonic.co.uk/lumix](http://www.panasonic.co.uk/lumix)



HD MOVIE



## DMC-FX77

Available colours:



### Stylish and Ultra-Slim with Many Features

- 5x Optical Zoom (35mm equivalent 24–120mm) with 6.5x Intelligent Zoom
- 24mm Wide-Angle LEICA DC Lens (F2.5-5.9)
- Full HD Movie 1080/50i AVCHD Recording with 12.1-Megapixel Hi-Speed CCD
- Intelligent Auto Mode, including POWER O.I.S.
- 10fps High-Speed Burst Shooting in Full Resolution
- 8.7cm (3.5-Inch) Smart Touch Screen
- 3D Photo Mode



Screen size: 8.7cm (3.5-Inch)





## DMC-FX700

Available colours:



### Wide-Angle Lens for Every Situation

- 5x Optical Zoom (35mm equivalent 24–120mm) with 6.5x Intelligent Zoom
- 24mm Wide-Angle LEICA DC VARIO-SUMMICRON Lens (F2.2–5.9)
- Full HD Movie 1080/50i AVCHD Recording with 14.1-Megapixel MOS Sensor
- Intelligent Auto Mode for Movies and Photos
- 10fps High-Speed Burst Shooting in Full Resolution
- Full Manual Operation
- 7.5cm (3.0-Inch) Intelligent LCD with Touch-Panel Operation



Screen size: 7.5cm (3.0-Inch)



AVCHD



## DMC-FS37

Available colours:



### Stylish with Wide Optical Range

- 8x Optical Zoom (35mm equivalent 28–224mm) with 10x Intelligent Zoom
- 28mm Wide-Angle LEICA DC Lens (F3.3–5.9)
- HD Movie 720p Motion JPEG Recording
- Intelligent Auto Mode
- 16.1-Megapixel CCD
- 7.5cm (3.0-Inch) Smart Touch Screen



Screen size: 7.5cm (3-Inch)

## DMC-FS35

Same as DMC-FS37,  
but with 6.7cm (2.7-Inch) Intelligent LCD

Available colours:





### Elegant and Powerful Compact Camera

- 4x Optical Zoom (35mm equivalent 28–112mm) with 5x Intelligent Zoom
- 28mm Wide-Angle LEICA DC Lens (F3.1–6.5)
- HD Movie 720p Motion JPEG Recording
- Intelligent Auto Mode
- 16.1-Megapixel CCD
- 6.7cm (2.7-Inch) Intelligent LCD

## DMC-FS18

Available colours:



## DMC-FS16

Same as DMC-FS18,  
but with 14.1-Megapixel CCD

Available colours:



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## DMC-S3

Available colours:



### Everyday All-Rounder

- 4x Optical Zoom (35mm equivalent 28–112mm)
- 28mm Wide-Angle LUMIX DC Lens (F3.1–6.5)
- HD Movie 720p Motion JPEG Recording
- Intelligent Auto Mode
- 14.1-Megapixel CCD
- 6.7cm (2.7-Inch) Intelligent LCD



# LUMIX Technical Specifications

		DMC-TZ20	DMC-TZ18	DMC-FZ100	DMC-FZ45	
METRICS	Dimensions (W x H x D)	104.9 x 57.6 x 33.4mm	104.9 x 57.6 x 33.4mm	124.3 x 81.2 x 95.2mm	120.3 x 79.8 x 91.9mm	
	Weight (without battery and SD Memory Card)	Approx. 197g	Approx. 188g	Approx. 496g	Approx. 454g	
	Pixels	Effective Pixels	14.1 megapixels	14.1 megapixels	14.1 megapixels	14.1 megapixels
	CCD	Sensor Size / Total Pixels / Filter	1/2.33-type MOS sensor / 15.1 total megapixels / Primary Colour Filter	1/2.33-type CCD sensor / 14.5 total megapixels / Primary Colour Filter	1/2.33-type / 15.1 total megapixels	1/2.33-type / 14.5 total megapixels
		Aperture	F3.3-5.9	F3.3-5.9	F2.8-5.2	F2.8-5.2
	OPTICS	Optical Zoom	16x	16x	24x	24x
		Focal Length	f=4.3-68.8mm (24-384mm in 35mm equiv.)	f=4.3-68.8mm (24-384mm in 35mm equiv.)	f=4.5-108mm (25-600mm in 35mm equiv.)	f=4.5-108mm (25-600mm in 35mm equiv.)
		Intelligent Zoom	21x	20x	32x	32x
		Lens	LEICA DC VARIO-ELMAR	LEICA DC VARIO-ELMAR	LEICA DC VARIO-ELMARIT	LEICA DC VARIO-ELMARIT
	Focus	AF Metering	Face / AF Tracking / 23pt / 1pt / Spot / Touch Area	Face / AF Tracking / 23pt / 1pt / Spot	Face / AF Tracking / Multi (23pt) / 1pt (flexible / scalable)	Face / AF Tracking / Multi (23pt) / 1pt (flexible / scalable)
Shutter	Shutter Speed	Still: 60-1/4000sec Starry Sky Mode: 15, 30, 60sec	Still: 60-1/4000sec Starry Sky Mode: 15, 30, 60sec	Still: 60-1/2000sec Movie Mode: 1/30-1/20,000sec Starry Sky Mode: 15, 30, 60sec	Still: 60-1/2000sec Movie Mode: 1/30-1/20,000sec Starry Sky Mode: 15, 30, 60sec	
Finder	Viewfinder	-	-	0.20" Colour EVF (201.6K Pixels equiv.), Field of View: approx. 100%, Lens 19.6x	0.20" Colour EVF (201.6K Pixels equiv.), Field of View: approx. 100%, Lens 19.6x	
iA	Face Recognition for Photo	•	•	•	•	
	Optical Image Stabiliser for Photo / Movie	POWER O.I.S.	POWER O.I.S.	POWER O.I.S.	POWER O.I.S.	
	Intelligent ISO Control for Photo	•	•	•	•	
	Face Detection for Photo / Movie	•/•	•/-	•/•	•/•	
	Intelligent Scene Selector Photo	Portrait, Scenery, Night Portrait, Night Scenery, Handheld Night Shot, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	
	Intelligent Scene Selector Movie	Portrait, Scenery, Low Light, Macro	-	Portrait, Scenery, Low Light, Macro	Portrait, Scenery, Low Light, Macro	
	Intelligent Exposure for Photo / Movie	•/•	•/•	•/•	•/•	
	AF Tracking Photo	•	•	•/-	•/•	
	Digital Red-Eye Correction (Red-Eye Removal) for Photo	•	•	•	•	
	Intelligent Resolution Technology	Photo / Movie	Photo / Movie	Photo / Movie	Photo / Movie	
File	HD Movie Recording AVCHD / AVCHD Lite / Motion JPEG	1920 x 1080 50i (Sensor output is 50p) / 1280 x 720 50p / 1280 x 720 30p	- / - / 1280 x 720, 30p	1920 x 1080, 50i / 1280 x 720, 50p / 1280 x 720, 30p	- / 1280 x 720, 50p / 1280 x 720, 30p	
Operation	One-Touch Movie Button	-	-	•	•	
RECORDING	Continuous Full-Resolution Image Shooting Mode	Full-Resolution Image, 10 frames/sec: max 15 images	Full-Resolution Image, 1.9 frames/sec: max 5 images (Standard mode), max 3 images (Fine Mode)	11 frames/sec: max 15 images	1.8 frames/sec: max 5 images (Standard Mode), max 3 images (Fine Mode)	
	Burst Shooting	High-Speed Burst Mode	Max. 60 frames / sec (recorded in 2.5M for 4.3, 3M for 3.2, 3.5M for 16.9, 2M for 1:1)	Approx. 5.5 frames/sec (image priority); approx. 10 frames/sec (speed priority) (recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9, 2.5M for 1:1)	Max. 60 frames/sec (recorded in 2.5M for 4.3, 3M for 3.2, 3.5M for 16.9, 2M for 1:1)	Approx. 5 frames/sec (image priority); approx. 10 frames/sec (speed priority) (recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9, 2.5M for 1:1)
	Flash Burst Continuous Shooting Mode	•	•	Max 5 images (Standard Mode)	Max 5 images (Standard Mode)	
	Exposure Parameters	Exposure	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual, Programme Shift (Programme AE Mode)	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual, Programme Shift (Programme AE Mode)
	ISO Sensitivity	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity mode (ISO 1600-6400)	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity mode (ISO 1600-6400)	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity mode (ISO 1600-6400)	Auto / i.ISO / 80 / 100 / 200 / 400 / 800 / 1600 High Sensitivity ISO 1600-6400)	
Image Parameters	Still Picture Recording 1:1 / 4:3 / 3:2 / 16:9	•/•/•/•	•/•/•/•	•/•/•/•	•/•/•/•	
Others	Colour Mode / Colour Effect	Standard, Natural, Vivid, Black & White, Sepia, Cool, Warm, Happy (only in iA mode)	Standard, Natural, Vivid, Black & White, Sepia, Cool, Warm, Happy (only in iA mode)	[Film Mode] Standard / Dynamic / Nature / Smooth / Vibrant / Nostalgic / Standard B&W / Dynamic B&W / Smooth B&W / My Film 1, 2 / Multi Film (My Colour Mode) Expressive / Retro / Pure / Elegant / Monochrome / High Dynamic / Dynamic Art / Dynamic B&W / Silhouette / Pinhole / Film Grain / Custom / Happy (only in iA mode) <sup>2</sup>	[Film Mode] Standard / Dynamic / Nature / Smooth / Vibrant / Nostalgic / Standard B&W / Dynamic B&W / Smooth B&W / My Film 1, 2 / Multi Film (My Colour Mode) Expressive / Retro / Pure / Elegant / Monochrome / High Dynamic / Dynamic Art / Dynamic B&W / Silhouette / Pinhole / Film Grain / Custom / Happy (only in iA mode) <sup>2</sup>	
PLAYBACK	Display	Playback Mode	Normal Playback, Slideshow, Filtering Playback (Picture Only, Video Only, 3D, GPS, Travel, Category, Favourites), Calendar Playback	Normal Playback, Slideshow, Filtering Playback (Picture Only, Video Only, Travel, Category, Favourites)	Normal Playback, Slideshow, Category Playback, Mode Playback, Favourites Playback	
	Monitor	LCD Monitor	7.5cm (3.0-Inch) TFT Touch Screen LCD Display (460K-dots), AR Coating	7.5cm (3.0-Inch) TFT Screen LCD Display (230K-dots)	7.5cm (3.0-Inch) TFT Screen LCD Display (460K-dots), AR Coating	
OTHERS	Flash	Built-In Flash	•	-	-	
	Audio	Microphone / Speaker	Stereo / •	Mono / •	Stereo / •	
	Interface	Interface (AV Output (PAL) / HDMI) Mini / USB 2.0 High Speed)	•/•/•	•/-/•	•/•/•	
	Power	Power	ID-Security Li-ion Battery Pack (3.6V, minimum: 895mAh) (included)	ID-Security Li-ion Battery Pack (3.6V, minimum: 895mAh) (included)	ID-Security, Li-ion Battery Pack (7.2V, minimum: 895mAh) (included) AC Adaptor (input: 110-240V AC) (optional)	ID-Security, Li-ion Battery Pack (7.2V, minimum: 895mAh) (included) AC Adaptor (input: 110-240V AC) (optional)
	Battery Life (approx.)	260 pictures (CIPA Standard) <sup>1</sup>	340 pictures (CIPA Standard) <sup>1</sup>	410 pictures (CIPA Standard) <sup>1</sup>	580 pictures (CIPA Standard) <sup>1</sup>	
	Additional Features	Special Features	LUMIX Image Uploader for Facebook and YouTube, GPS, 3D Mode	LUMIX Image Uploader for Facebook and YouTube	Easy Operation with Click Wheel for Manual Setting, LUMIX Image Uploader for Facebook and YouTube	Easy Operation with Click Wheel for Manual Setting, LUMIX Image Uploader for Facebook and YouTube

• Yes - No

<sup>1</sup> Motion pictures can be recorded continuously for up to 15 minutes in European PAL area. <sup>2</sup> Film Mode and My Colour Mode also work with movie recording.

# LUMIX Technical Specifications

		DMC-LX5	DMC-FT3	DMC-FT10	DMC-FX77	DMC-FX700	
METRICS	Dimensions (W x H x D)	109.7 x 65.5 x 43mm / excl. protrusions: 25.5mm	103.5 x 64.0 x 26.5mm	100.3 x 63.5 x 21.6mm / excl. protrusions: 20.5mm	99.7 x 55.2 x 20.6mm	103.5 x 55.8 x 24.5mm / excl. protrusions: 22.6mm	
	Weight (without battery and SD Memory Card)	Approx. 233g	Approx. 175g	Approx. 152g	Approx. 126g	Approx. 155g	
OPTICS	Pixels	Effective Pixels	10.1 megapixels	12.1 megapixels	14.1 megapixels	12.1 megapixels	14.1 megapixels MOS sensor
	CCD	Sensor Size / Total Pixels / Filter	1/1.63-type / 11.3 total megapixels	1/2.33-type CCD sensor / 12.5 megapixels / Primary Colour Filter	1/2.33-type / 14.5 total megapixels	1/2.33-type CCD sensor / 12.5 total megapixels / Primary Colour Filter	1/2.33-type / 15.1 total megapixels
	Lens	Aperture Optical Zoom	F2.0-3.3 3.8x	F3.3-5.9 4.6x	F3.5-F5.9 4x	F2.5-5.9 5x	F2.2-5.9 5x
		Focal Length	f=5.1-19.2mm (24-90mm in 35mm equiv.)	f=4.9-22.8mm (20-128mm in 35mm equiv.)	f=6.3-25.2mm (35-140mm in 35mm equiv.)	f=4.3-21.5mm (24-120mm in 35mm equiv.)	f=4.3-21.5mm (24-120mm in 35mm equiv.)
		Intelligent Zoom	6x	6x	6x	6.5x	6.5x
	Focus	Lens	LEICA DC VARIO-SUMMICRON	LEICA DC VARIO-ELMAR	LUMIX DC VARIO	LEICA DC VARIO-SUMMARIT	LEICA DC VARIO-SUMMICRON
		AF Metering	Face / AF Tracking / Multi (23pt) / 1pt (flexible / scalable)	Face / AF Tracking / 23pt / 1pt / Spot	Face / 9 pt / 1pt	Face / AF Tracking / 23pt / 1pt / Spot / Touch Area	Face / AF Tracking / 11pt / 1pt HS / 1pt / Spot
	Shutter	Shutter Speed	Still: 60-1/4000sec Movie Mode: 1/30-1/20,000sec Starry Sky Mode: 15, 30, 60sec	Still: 60-1/1300sec Starry Sky Mode: 15, 30, 60sec	Still: approx. 60-1/1600sec Starry Sky Mode: 15, 30, 60sec	Still: 60-1/4000sec Starry Sky Mode: 15, 30, 60sec	Still: 60-1/2000sec Starry Sky Mode: 15, 30, 60sec
	Finder	Viewfinder	• (optional OVF/EVF)	•	•	•	•
	iA	Face Recognition for Photo	•	•	•	•	•
Optical Image Stabiliser for Photo / Movie		POWER O.I.S.	POWER O.I.S.	MEGA O.I.S.	POWER O.I.S.	POWER O.I.S.	
Intelligent ISO Control for Photo		•	•	•	•	•	
Face Detection for Photo / Movie		•/•	•/•	•/•	•/•	•/•	
Intelligent Scene Selector Photo		Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	
Intelligent Scene Selector Movie		Portrait, Scenery, Low Light, Macro	Portrait, Scenery, Low Light, Macro	-	Portrait, Scenery, Low Light, Macro	Portrait, Scenery, Low Light, Macro	
Intelligent Exposure for Photo / Movie		•/•	•/•	•/•	•/•	•/•	
AF Tracking Photo		•/•	•/•	•/•	•/•	•/•	
Digital Red-Eye Correction (Red-Eye Removal) for Photo		•	•	•	•	•	
Intelligent Resolution Technology		Photo / Movie	Photo / Movie	-	Photo / Movie	Photo / Movie	
File	HD Movie Recording AVCHD / AVCHD Lite / Motion JPEG	- / 1280 x 720, 50i / 1280 x 720, 30p	1920 x 1080, 50i / 1280 x 720, 50p / 1280 x 720, 30p	- / - / 1280 x 720, 30p	1920 x 1080, 50i / 1280 x 720, 50p / 1280 x 720, 30p	1920 x 1080, 50i / 1280 x 720, 50p / 1280 x 720, 30p	
	Operation	One-Touch Movie Button	•	•	•	•	
RECORDING	Burst Shooting	Continuous Full-Resolution Image Shooting Mode	2.5 frames/sec: max 5 images (Standard Mode), max 3 images (Fine Mode)	Full-Resolution Image, 3.7 frames/sec: max 7 images	-	Full-Resolution Image, 3.7 frames/sec: max 7 images	10 frames/sec: max 15 images
	High-Speed Burst Mode	Approx. 6 frames/sec (image priority), approx. 10 frames/ sec (speed priority) [recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9, 2.5M for 1:1]	Approx. 7 frames/sec (image priority), approx. 10 frames/sec (speed priority) [recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9, 2.5M for 1:1]	Approx. 4.6 frames/sec (image priority) [recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9]	Approx. 6 frames/sec (image priority), approx. 10 frames/sec (speed priority) [recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9, 2.5M for 1:1]	Max 60 frames/sec [recorded in 2.5M for 4.3, 3M for 3.2, 3.5M for 16.9, 2M for 1:1]	
	Flash Burst Continuous Shooting Mode	Max 5 images (Standard Mode)	•	Max 5 images (Standard mode)	•	Max 5 images (Standard mode)	
Exposure Parameters	Exposure	Programme AE, Aperture Priority AE, Shutter Priority AE, Manual, Programme Shift (Programme AE Mode)	Programme AE	Programme AE	Programme AE	Programme AE, Aperture Priority AE, Manual	
	ISO Sensitivity	Auto / i.ISO / 80 / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400* / 12800* (* by pixel mixed readout) High Sensitivity (ISO 1600-12800)	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	i.ISO / 80 / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	
	Still Picture Recording 1:1 / 4:3 / 3:2 / 16:9	•/•/•/•	•/•/•/•	•/•/•/•	•/•/•/•	•/•/•/•	
Image Parameters	Film Mode	[Film Mode] Standard / Dynamic / Nature / Smooth / Vibrant / Nostalgic / Standard B&W / Dynamic B&W / Smooth B&W / My Film 1, 2 / Multi Film [My Colour Mode] Expressive / Retro / Pure / Elegant / Monochrome / High Dynamic / Dynamic Art / Dynamic B&W / Silhouette / Pinhole / Film Grain / Custom / Happy (only in iA mode)*	Standard, Natural, Vivid, Black & White, Sepia, Cool, Warm, Happy (only in iA Mode)	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm	My Colour Mode Expressive / Retro / Pure / Monochrome / High Dynamic / Silhouette / Pin Hole / Film Grain), Colour Mode (Standard / Vivid / Natural / Black & White / Sepia / Cool / Warm), Happy (only in iA Mode)	Standard, Black & White, Sepia, Cool, Warm, Happy (only in iA Mode)	
	Colour Mode / Colour Effect	•	•	•	•	•	
Others	Optical Zoom in Motion Picture	•	•	•	•	•	
PLAYBACK	Display	Playback Mode	Normal Playback, Slideshow, Filtering Playback Picture Only, Video Only, 3D, GPS, Travel, Category, Favourites), Calendar Playback	Normal Playback, Slideshow, Category Playback, Favourites Playback	Normal Playback, Slideshow, Filtering Playback Picture Only, Video Only, 3D, Category, Favourites), Album, Playback, Dual Image Playback, Calendar Playback	Normal Playback, Slideshow, Category Playback, Calendar Playback, Mode Playback, Favourites Playback	
	Monitor	LCD Monitor	7.5cm (3.0-Inch) TFT Screen LCD Display (460K-dots), AR Coating	6.7cm (2.7-Inch) TFT Screen LCD Display (230K-dots), AR Coating	6.7cm (2.7-Inch) TFT Screen LCD Display (230K-dots), AR Coating	8.8cm (3.5-Inch) TFT Full Touch Screen LCD Display (230K dots), AR	7.5cm (3.0-Inch) TFT Touch-Screen LCD Display (230K-dots)
	Flash	Touch Panel	•	•	•	•	•
	Audio	Microphone / Speaker	•	•	•	•	•
OTHERS	Interface	Built-In Flash	•	•	•	•	
	Power	Power	Mono •	Mono •	Mono •	Mono •	Stereo •
	Interface	Interface (AV Output (PAL) / HDMI Mini / USB 2.0 High Speed)	•/•/•	•/•/•	•/•/•	•/•/•	•/•/•
Additional Features	Power	ID-Security, Li-ion Battery Pack (3.6V, minimum: 1250mAh) (included) AC Adaptor (input: 110-240V AC) [optional]	ID-Security Li-ion Battery Pack (3.6V, minimum: 940mAh) (included)	ID-Security, Li-ion Battery Pack (3.7V, minimum: 695mAh) (included) AC Adaptor (input: 110-240V AC) [optional]	Li-ion Battery Pack (3.6V, minimum: 680mAh) (included)	ID-Security Li-ion Battery Pack (3.6V, minimum: 940mAh) (included) AC Adaptor (input: 110-240V AC) [optional]	
	Battery Life (approx.)	400 pictures (CIPA Standard) <sup>1)</sup>	310 pictures (CIPA Standard) <sup>1)</sup>	300 pictures (CIPA Standard) <sup>1)</sup>	200 pictures (CIPA Standard) <sup>1)</sup>	300 pictures (CIPA Standard) <sup>1)</sup>	
Special Features	Interface for optional EVF DMW-LV1, Click Wheel for Manual Setting	LUMIX Image Uploader for Facebook and YouTube Waterproof 12m, Dustproof, Freezeproof -10°C, Shockproof 2m, GPS, Compass, Altimeter, Barometer, 3D Mode, GPS, Intelligent Handheld Night Shot	Waterproof 3m, Dustproof, Freezeproof -10°C, Shockproof 1.5m	LUMIX Image Uploader for Face- book and YouTube, 3D Mode	-		

# LUMIX Technical Specifications

		DMC-FS37	DMC-FS35	DMC-FS18	DMC-FS16	DMC-S3
METRICS	Dimensions (W x H x D)	99.2 x 56.5 x 27.7mm	99.2 x 56.5 x 27.8mm	94.3 x 53.5 x 18.8mm	94.3 x 53.5 x 18.8mm	98.8 x 58.8 x 20.9mm
	Weight (without battery and SD Memory Card)	Approx. 142g	Approx. 135g	Approx. 104g	Approx. 101g	Approx. 100g
PIXELS	Effective Pixels	16.1 megapixels	16.1 megapixels	16.1 megapixels	14.1 megapixels	14.1 megapixels
	CCD	Sensor Size / Total Pixels / Filter 1/2.33-type / 16.6 total megapixels / Primary Colour Filter	1/2.33-type / 16.6 total megapixels / Primary Colour Filter	1/2.33-type / 16.6 total megapixels / Primary Colour Filter	1/2.33-type / 14.5 total megapixels / Primary Colour Filter	1/2.33-type / 14.5 total megapixels / Primary Colour Filter
OPTICS	Aperture	F3.3-5.9 / 2-Step (F3.3-10 (W) / F5.9-18 (T))	F3.3-5.9 / 2-Step (F3.3-10 (W) / F5.9-18 (T))	F3.1-6.5 / 2-Step (F3.1-9.0 (W) / F6.5-20 (T))	F3.1-6.5 / 2-Step (F3.1-9.0 (W) / F6.5-20 (T))	F3.1-F6.5 / Multistage Iris Diaphragm (F3.1-9.0 (W) / F6.5-20.0 (T))
	Optical Zoom	8x	8x	4x	4x	4x
	Focal Length	f=5-40mm (28-224mm in 35mm equiv.)	f=5-40mm (28-224mm in 35mm equiv.)	f=5-20mm (28-112mm in 35mm equiv.)	f=5-20mm (28-112mm in 35mm equiv.)	f=5-20.0mm (28-112mm in 35mm equiv.)
	Intelligent Zoom	10x	10x	5x	5x	-
	Lens	LEICA DC VARIO-ELMAR	LEICA DC VARIO-ELMAR	LEICA DC VARIO-ELMAR	LEICA DC VARIO-ELMAR	LUMIX DC VARIO
Focus	AF Metering	Face / AF Tracking / 11 pt / 1pt / Touch Area	Face / AF Tracking / 11 pt / 1pt	Face / AF Tracking / 11 pt / 1pt	Face / AF Tracking / 11 pt / 1pt	Face / 11 pt / 1pt
Shutter	Shutter Speed	Still: approx. 8-1/1600 sec Starry Sky Mode: 15, 30, 60sec	Still: approx. 8-1/1600 sec Starry Sky Mode: 15, 30, 60sec	Still: approx. 8-1/1600sec Starry Sky Mode: 15, 30, 60sec	Still: approx. 8-1/1600sec Starry Sky Mode: 15, 30, 60sec	Approx. 8-1/1600 sec
Finder	Viewfinder	-	-	-	-	-
iA	Face Recognition for Photo	MEGA O.I.S.	MEGA O.I.S.	MEGA O.I.S.	MEGA O.I.S.	MEGA O.I.S.
	Optical Image Stabiliser for Photo / Movie	•	•	•	•	•
	Intelligent ISO Control for Photo	• / -	• / -	• / -	• / -	• / -
	Face Detection for Photo / Movie	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro	Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro
	Intelligent Scene Selector Photo	-	-	-	-	-
	Intelligent Scene Selector Movie	• / •	• / •	• / •	• / •	- / -
	Intelligent Exposure for Photo / Movie	•	•	•	•	•
	AF Tracking Photo	•	•	•	•	•
	Digital Red-Eye Correction (Red-Eye Removal) for Photo	Photo	Photo	Photo	Photo	-
	Intelligent Resolution Technology	- / - / 1280 x 720, 24p	- / - / 1280 x 720, 24p	- / - / 1280 x 720, 24p	- / - / 1280 x 720, 30p	- / - / •
File	HD Movie Recording AVCHD / AVCHD Lite / Motion JPEG	-	-	-	-	- / - / 1280 x 720, 30p
Operation	One-Touch Movie Button	1.4 frames/sec	1.4 frames/sec	1.4 frames/sec	1.4 frames/sec	1.5 frames/sec
RECORDING	Continuous Full-Resolution Image Shooting Mode	Approx. 4.4 frames/sec (image priority) [recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9]	Approx. 4.4 frames/sec (image priority) [recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9]	Approx. 4.4 frames/sec (image priority) [recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9]	Approx. 5.5 frames/sec (image priority) [recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9]	-
	High-Speed Burst Mode	Programme AE	Programme AE	Programme AE	Programme AE	Programme AE
	Flash Burst Continuous Shooting Mode	i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)	i.ISO / 100 / 200 / 400 / 800 / 1600 High Sensitivity (ISO 1600-6400)
	Exposure Parameters	Exposure	1/3 EV step, +/- 2 EV	1/3 EV step, +/- 2 EV	1/3 EV step, +/- 2 EV	1/3 EV step, +/- 2 EV
Image Parameters	ISO Sensitivity	• / • / • / -	• / • / • / -	• / • / • / -	• / • / • / -	• / • / • / -
	Still Picture Recording 1:1 / 4:3 / 3:2 / 16:9	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm, Happy (only in IA Mode)	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm, Happy (only in IA Mode)	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm, Happy (only in IA Mode)	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm, Happy (only in IA Mode)	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm
	Colour Mode / Colour Effect	-	-	-	-	-
	Others	Optical Zoom in Motion Picture	Normal Playback, Slideshow, Filtering Playback (Category Playback), Calendar Playback	Normal Playback, Slideshow, Filtering Playback (Category Playback), Calendar Playback	Normal Playback, Slideshow, Filtering Playback (Category Playback), Calendar Playback	Normal Playback, Slideshow, Filtering Playback (Category Playback), Calendar Playback
PLAYBACK	Display	Playback Mode	7.5cm (3.0-Inch) TFT Touch-Screen LCD Display (230K-dots)	6.7cm (2.7-Inch) TFT Screen LCD Display (230K-dots)	6.7cm (2.7-Inch) TFT Screen LCD Display (230K-dots)	6.7cm (2.7-Inch) TFT Screen LCD Display (230K-dots)
	Monitor	LCD Monitor	-	-	-	-
Flash	Touch Panel	•	•	•	•	•
	Built-In Flash	Mono / •	Mono / •	Mono / •	Mono / •	Mono / •
Audio	Microphone / Speaker	• / - / •	• / - / •	• / - / •	• / - / •	• / - / •
INTERFACE	Interface (AV Output (PAL) / HDMI) Mini / USB 2.0 High Speed)	Li-ion Battery Pack (3.6V, minimum: 660mAh) (included)	Li-ion Battery Pack (3.6V, minimum: 660mAh) (included)	Li-ion Battery Pack (3.6V, minimum: 660mAh) (included)	Li-ion Battery Pack (3.6V, minimum: 660mAh) (included)	Li-ion Battery Pack (3.6V, minimum: 660mAh) (included)
	Power	Power	250 pictures (CIPA Standard) <sup>1</sup>	250 pictures (CIPA Standard) <sup>1</sup>	260 pictures (CIPA Standard) <sup>1</sup>	270 pictures (CIPA Standard) <sup>1</sup>
ADDITIONAL FEATURES	Battery Life (approx.)	LUMIX Image Uploader for Facebook and YouTube	LUMIX Image Uploader for Facebook and YouTube	LUMIX Image Uploader for Facebook and YouTube	LUMIX Image Uploader for Facebook and YouTube	LUMIX Image Uploader for Facebook and YouTube
	Special Features	LUMIX Image Uploader for Facebook and YouTube Waterproof 12m, Dustproof, Freezeproof -10°C, Shockproof 2m, GPS, Compass, Altimeter, Barometer, 3D Mode, GPS, Intelligent Handheld Night Shot	Waterproof 3m, Dustproof, Freezeproof -10°C, Shockproof 1.5m	LUMIX Image Uploader for Facebook and YouTube, 3D Mode	-	-



PRODUCT NUMBER	ITEM	SPECIFICATION	TZ20	TZ18	FZ100	FZ45	LX5	FT3	FT10
DMW-BCF10	Battery Pack	ID-secured, 3.6V, 940mAh (min.), 3.4Wh	-	-	-	-	-	•	-
DMW-BCG10	Battery Pack	ID-secured, 3.6V, 895mAh (min.), 3.3Wh	•	•	-	-	-	-	-
DMW-BCK7	Battery Pack	ID-secured, 3.6V, 695mAh, 2.5Wh	-	-	-	-	-	-	-
DMW-BMB9	Battery Pack	ID-secured, 7.2V, 895mAh, 6.4Wh	-	-	•	•	-	-	-
DMW-BCJ13	Battery Pack	ID-secured, 3.6V, 1250mAh, 4.5Wh	-	-	-	-	•	-	-
DMW-LT55	Tele Conversion Lens	55mm, magnification 1.7x	-	-	• <sup>4</sup>	• <sup>4</sup>	-	-	-
DMW-LWA52	Wide Conversion Lens	52mm, magnification 0.75x	-	-	-	-	• <sup>7</sup>	-	-
DMW-LA5	Conversion Lens Adaptor		-	-	•	•	-	-	-
DMW-LA6	Conversion Lens Adaptor		-	-	-	-	•	-	-
DMW-LC55	Close-Up Lens	55mm	-	-	• <sup>4</sup>	• <sup>4</sup>	-	-	-
DMW-LND52	ND Filter	52mm	-	-	•	•	• <sup>7</sup>	-	-
DMW-LPL52	PL Filter	52mm	-	-	•	•	• <sup>7</sup>	-	-
DMW-LMC52	MC Protector	52mm	-	-	•	•	• <sup>7</sup>	-	-
DMW-VF1	External Optical Viewfinder		-	-	-	-	•	-	-
DMW-LVF1	Live Viewfinder		-	-	-	-	•	-	-
DMW-FL220	External Flash	GN 22, TTL metering	-	-	•	-	•	-	-
DMW-FL360	External Flash	GN 36, TTL metering	-	-	•	-	•	-	-
DMW-FL500	External Flash	GN 50, TTL metering	-	-	•	-	•	-	-
DMW-MS1	Microphone	Stereo microphone	-	-	•	-	-	-	-
DMW-RSL1	Remote Shutter	With bulb lock function	-	-	•	-	-	-	-
DMW-MCTZ20	Marine Case	Up to 40m waterproof	•	•	-	-	-	-	-
DMW-MCFT3	Marine Case	Up to 40m waterproof	-	-	-	-	-	•	-
DMW-AC5	AC Adaptor		• <sup>3</sup>	• <sup>3</sup>	-	-	• <sup>6</sup>	• <sup>2</sup>	•
DMW-AC8	AC Adaptor		-	-	• <sup>5</sup>	• <sup>5</sup>	-	-	-
DMW-MCA1	Multi-Conversion Adaptor		-	-	-	-	-	-	-
DMW-CLX5E	Camera Leather Bag		-	-	-	-	•	-	-
RP-CDHM15	HDMI Mini Cable	1.5m	•	-	•	•	•	-	-
RP-CDHM30	HDMI Mini Cable	3.0m	•	-	•	•	•	-	-

• Yes - No

<sup>1</sup>You need AC Adaptor DMW-AC5.

<sup>2</sup>You need DC Coupler DMW-DCC4.

<sup>3</sup>You need DC Coupler DMW-DCC5F.

<sup>4</sup>You need Lens Adaptor DMW-LA5.

<sup>5</sup>You need DC Coupler DMW-DCC6F.

<sup>6</sup>You need DC Coupler DMW-DCC7F.

<sup>7</sup>You need Lens Adaptor DMW-LA6.

<sup>8</sup>You need DC Coupler DMW-DC10.



PRODUCT NUMBER	ITEM	SPECIFICATION	FX77	FX700	FS37/35	FS18/16	S3
DMW-BCF10	Battery	ID-secured, 3.6V, 940mAh (min.), 3.4Wh	-	•	-	-	-
DMW-BCK7	Battery	ID-secured, 3.6V, 695mAh, 2.5Wh	•	-	•	•	•
DMW-AC5	AC Adaptor		• <sup>8</sup>	• <sup>2</sup>	• <sup>8</sup>	• <sup>8</sup>	• <sup>8</sup>
DMW-DCC4	DC Coupler		-	• <sup>1</sup>	-	-	-
RP-CDHM15	HDMI Mini Cable	1.5m	•	•	-	-	-
RP-CDHM30	(AV Acc BU)	3.0m	•	•	-	-	-

For camera cases please refer to [www.panasonic.co.uk/lumix](http://www.panasonic.co.uk/lumix)



**Filters and Protector**  
**DMW-LPL52**  
 PL Filter for FZ100, FZ45 and LX5

**DMW-LND52**  
 ND Filter for FZ100, FZ45 and LX5

**DME-LMC52**  
 MC Protector for FZ100, FZ45 and LX5



**DMW-MCTZ20**  
 Marine Case for TZ20



**Lens and Lens Adaptor**  
**DMW-LWA52**  
 0.75x Wide Conversion Lens for LX5

**DMW-LA6**  
 Lens Adaptor for LX5

**DMW-LT55**  
 1.7x Tele Conversion Lens for FZ100 and FZ45

**DMW-LA5**  
 Conversion Lens Adaptor for FZ100 and FZ45

**DMW-LC55E**  
 Close-up Lens



**DMW-VF1**  
 External Optical Viewer for LX5



**DMW-FL220**  
 Flash Light for FZ100 and LX5



**DMW-MCFT3**  
 Marine Case for FT3