

Specifications TG-310

OLYMPUS

Image Sensor	
Effective pixels	14 Megapixels
Full resolution	14.5 Megapixels
Type	1/2.3" CCD sensor
Lens	
Optical zoom	3.6x (WIDE)
Focal length	5.0 - 18.2mm
Focal length (equiv. 35mm)	28 - 102mm
Structure	10 lenses / 8 groups
Aspherical glass elements	4
ED glass elements	2
Maximum aperture	3.5 - 5.1
Digital Zoom	
Enlargement factor	4x / 14.4x combined with optical zoom
Monitor	
LCD type	TFT
Monitor size	6.9cm / 2.7"
Resolution	230,000 dots
Brightness adjustment	+/- 2 levels
Frame assistance	Yes
Protection panel	Yes
Focusing System	
Method	TTL iESP auto focus with contrast detection
Standard mode	0.5m - ∞ (wide) / 0.5m - ∞ (tele)
Makro mode	0.1m - ∞ (wide) / 0.3m - ∞ (tele)
Super Macro mode	Closest focusing distance: 2cm
Modes	iESP, Face Detection AF, Spot, AF Tracking
Light Metering	
Histogram in shooting mode	Yes
Modes	ESP light metering, Spot metering
Exposure System	
Shutter speed	1/4 - 1/2000s / < 4s(Night scene)
Exposure compensation	+/- 2EV / 1/3 steps
Enhancement function	Mechanical Image Stabilizer Shadow Adjustment Technology Advanced Face Detection Technology Pet Detection
Modes	i-Auto, Programme automatic, Magic Filter, Panorama, Scene Modes, Movie, 3D Photos
Number of scene modes	17, Portrait, Beauty, Landscape, Night Scene, Night Scene with portrait, Sports, Indoor, Candle, Self-portrait, Sunset, Fireworks, Cuisine, Documents, Beach and Snow, Underwater Snapshot, Pet (cat), Pet (dog)
Magic Filter	Pop Art, Pin Hole, Fisheye, Drawing, Soft Focus, Punk, Sparkle, Water color
Sensitivity	
Auto	AUTO / High AUTO
Manual	ISO 80, 100, 200, 400, 800, 1600
White Balance	
AUTO WB system	Yes
Preset values	Overcast, Sunlight, Tungsten, Fluorescent 1, Underwater
Sequence Shooting	
Sequential shooting mode (high speed)	3 fps / 200 frames (in 5MP mode)
Sequential shooting mode	0.6 fps / 200 frames (Full Image Size)
Image Processing	
Pixel mapping	Yes
Noise reduction	Yes
Engine	TruePic III+
Distortion compensation	Yes
Shading compensation	Yes
Image Editing	Resize, Trimming, Correction of saturation, Beauty Fix
Movie Recording System	
Image Stabilisation Mode	Digital Image Stabilisation
Recording format	MPEG-4
Movie quality	720P Recording time: 29min. VGA Recording time: no limit QVGA Recording time: no limit Note: maximum file size 4GB
Magic Filter	Pop Art, Pin Hole, Fisheye, Drawing, Soft Focus, Punk, Water color

Sound Recording System	
Voice playback	Yes
Sound recording	Yes, format: AAC
Image footage	4s
Speaker	Yes
Memory	
Removable Media	SD / SDHC / SDXC
Internal memory	19.5MB
Image Size	
14M	4288 x 3216
8M	3264 x 2448
5M	2560 x 1920
3M	2048 x 1536
2M	1600 x 1200
1M	1280 x 960
VGA	640 x 480
16:9	4288 x 2416 1920 x 1080
View Images	
Modes	Single, Index, Zoom, Slide show, Event, Photo Surfing
Index	4x3 / 6x5 frames
Zoom	Yes, 1.1 - 10x
Image protect mode	Yes
Histogram in playback mode	Yes
View Movie	
Modes	Frame by frame, Fast forward, Reverse playback
Internal Flash	
Working range (wide)	0.2 - 4.3 m (ISO 800)
Working range (tele)	0.5 - 2.8 m (ISO 800)
Modes	AUTO, Red-eye reduction, Fill-in, Off
Menu	
Menu languages in camera	39
Power Supply	
Battery	LI-42B Lithium-Ion Battery
Internal Charging	Yes
Interface	
HDMI™	Yes, Type D*
DC input	Yes, (CB-MA3 required)
Combined A/V & USB output	Yes
USB 2.0 High Speed	Yes
Eye-Fi Card compatible	Yes
* "HDMI", the HDMI logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.	
Other Features	
Shock resistant	Shock-proof from heights of up to 1.5m*
Waterproof	Waterproof up to a water pressure equivalent to 3m depth**
Freezeproof	Freezeproof up to -10°C***
Perfect Shot Preview	Yes
In-Camera Panorama	Yes
Self timer	2 / 12 s Pet auto shutter
Menu guide	Yes
In-camera Manual	Yes
Photo Surfing	Yes
* Equivalent to MIL Standard (Olympus test conditions)	
** According to IEC standard publication 529 IPX8	
*** According to Olympus test conditions	
Date imprint	Yes
Size	
Dimensions (W x H x D)	96.3 x 63.4 x 22.7mm
Weight	155g (including battery and memory card)

Specifications VG-130

OLYMPUS

Image Sensor		Image Size	
Effective pixels	14 Megapixels	8M	3264 x 2448
Full resolution	14.5 Megapixels	5M	2560 x 1920
Type	1/2.3" CCD sensor	3M	2048 x 1536
Lens		2M	1600 x 1200
Optical zoom	5x (WIDE)	1M	1280 x 960
Focal length	4.7 - 23.5mm	VGA	640 x 480
Focal length (equiv. 35mm)	26 - 130mm	16:9	1920 x 1080
Maximum aperture	2.8 - 6.5	View Images	
Structure	7 lenses / 5 groups	Modes	Single, Index, Zoom, Slide show
Aspherical glass elements	5	Index	4x3 / 6x5 frames
Digital Zoom		Zoom	1.1 - 10x
Enlargement factor	4x / 20x combined with optical zoom	Auto rotation	Yes
Monitor		Image protect mode	Yes
Resolution	230,400 dots	View Movie	
Monitor size	7.6cm / 3.0"	Modes	Frame by frame, Fast forward, Reverse playback
LCD type	TFT	Internal Flash	
Frame assistance	Yes	Working range (wide)	0.2 - 4.9 m (ISO 800)
Brightness adjustment	2 levels	Working range (tele)	0.6 - 2.1 m (ISO 800)
Protection panel	Yes	Modes	AUTO, Red-eye reduction, Fill-in, Off
Focusing System		Menu	
Method	TTL iESP auto focus with contrast detection	Menu languages in camera	40
Standard mode	0.6m - ∞ (wide) / 1.0m - ∞ (tele)	Power Supply	
Makro mode	0.2m - ∞ (wide) / 0.6m - ∞ (tele)	Battery	LI-70B Lithium-Ion Battery
Super Macro mode	Closest focusing distance: 7cm	Internal Charging	Yes
AF illuminator	Yes	Interface	
Modes	iESP, Face Detection AF, Spot, AF Tracking	DC input	No
Light Metering		Combined A/V & USB output	Yes
Modes	ESP light metering	USB 2.0 High Speed	Yes
Exposure System		Other Features	
Shutter speed	1/2 - 1/2000s / < 4s(Candle Scene)	Perfect Shot Preview	Yes
Enhancement function	Digital Image Stabilisation	Self timer	2 / 12 s
	Advanced Face Detection Technology	Menu guide	Yes
Exposure compensation	+/- 2EV / 1/3 steps	Date imprint	Yes
Modes	i-Auto, Programme automatic, DIS mode, Scene Modes, Magic Filter, Panorama, Movie	Size	
Number of scene modes	14, Portrait, Landscape, Night Scene, Night Scene with portrait, Sports, Indoor, Candle, Self-portrait, Sunset, Fireworks, Cuisine, Documents, Beach and Snow, Pet	Dimensions (W x H x D)	96 x 56.5 x 19.3mm
Magic Filter	Pop Art, Pin Hole, Fisheye, Drawing, Soft Focus, Punk, Sparkle	Weight	125g (including battery and memory card)
Sensitivity			
Auto	AUTO		
Manual	ISO 80, 100, 200, 400, 800, 1600		
White Balance			
AUTO WB system	Yes		
Preset values	Overcast, Sunlight, Tungsten, Flourescent 1, Flourescent 2, Flourescent 3		
Sequence Shooting			
Sequential shooting mode (high speed)	10 fps / 20 frames (in 3MP mode)		
	2.3 fps / 200 frames (in 3MP mode)		
Sequential shooting mode	0.8 fps / 200 frames (Full Image Size)		
Image Processing			
Pixel mapping	Yes		
Noise reduction	Yes		
Shading compensation	Yes		
Distortion compensation	Yes		
Image Editing	Resize, Trimming		
Movie Recording System			
Recording format	AVI Motion JPEG®		
Movie quality	1280 x 720 / 30fps Recording time: no limit 640 x 480 / 30fps Recording time: no limit Note: maximum file size 2GB		
Sound Recording System			
Voice playback	Yes		
Sound recording	Yes, format: WAV		
Image footage	4s		
Speaker	Yes		
Memory			
Internal memory	49MB		
Removable Media	SD / SDHC		
Image Size			
14M	4288 x 3216		