TG-6 Red

- Waterproof to 15m**, shockproof to 2.1m***, crushproof to 100kg**** and freezeproof to -10°C
- Super-bright F2-4.9 wide-aperture high-speed lens for shooting with fast shutter speeds
- TruePic VIII image processor for 4K resolution and full-HD sized, 120fps slow-motion movies
- Variable Macro System (Microscope, Microscope Control, Focus Bracketing, Focus Stacking Mode)

- 12 Megapixel backlit CMOS sensor for excellent image quality with high ISO values in low light
- 4x optical zoom (25-100mm*) for wide-angle shots

- Field Sensor System (GPS, compass, manometer, temperature sensor)
- Built-in WiFi and OI.Share app compatibility for remote control and sharing via smartphone

Tough Performance. No Compromises.

The tough cameras are built for adrenaline junkies who want to capture fast action under extreme conditions. Tough cameras are waterproof, shockproof, crushproof, freezeproof, and dustproof for worry-free operation on any adventure. The Olympus Tough TG-6 is the latest flagship Tough camera and it comes with some serious enhancements. By the combination of the high-resolution F2 lens***, the 12 Megapixels image sensor and the latest image processor TruePic VIII, high image quality is achieved. The bright F2 lens enables faster shutter speeds for capturing moving subjects. The combined image sensor and processor reduces noise levels. Capturing every action perfectly is ensured as video boasts 4K and 120fps Full HD high-speed movies for better slow motion quality. Added to this and the legendary tough performance are easy to access controls and dual pane anti-fog glass. For spectacular nature shots, the TG-6 has an advanced, variable Macro system, with Microscope, Microscope Control, Focus Bracketing and Focus Stacking Mode. As Tough's tend to be used when the elements are at their harshest, this matters, so for all those who want to share spectacular evidence of their exploits this summer: Look no further than the new Tough TG-6.

*Equivalent to a 35mm camera
**According to IEC standard publication 529 IPX8
***At wide angle
Items can't be used simultaneously are: other accessories or conversion lens to be attached to the mount, silicone jacket and underwater housing. Macro LED illumination can't be used while the lens barrier is attached. (It causes shadows on the photo.)

Specifications

Image Sensor

Effective pixels	12 Megapixels
Filter array	Primary colour filter (RGB)
Full resolution	12.7 Megapixels
Type	1/2.33" CMOS

Lens

Optical zoom	4x (WIDE)
Focal length	4.5 - 18.0mm
Focal length (equiv. 35mm)	25 - 100mm
Structure	9 lenses / 7 groups
Aspherical glass elements	3
Maximum aperture	2.0 - 4.9
Filter diamater	40.5mm

Monitor

Monitor type	LCD
Monitor size	7.6cm / 3" (3:2)
Resolution	1040K dots
Brightness adjustment	+/- 7 levels
Live View	Yes

Focusing System

Method	TTL iESP auto focus with contrast detection
Modes	Single AF
	Face Detection AF
	Spot
	AREA
	AF Tracking
	Manual focus
Standard mode	0.1m - ∞ (wide) / 0.1m - ∞ (tele)
Super Macro Mode	Closest focusing distance: 1cm
Microscope Mode	Zoom capability while being in Super Macro Mode
AF lock	Yes
AF illuminator	Yes
Focus peaking	
Colour selection	White, black, red, yellow
Focus Bracketing Mode	
Number of images	10 / 20 / 30 shots
Step size	3 levels
Focus Stacking Mode	
Technology	Available
	Angle of view becomes slightly smaller

Light Metering

Histogram in shooting mode	Yes
Modes	ESP light metering
	Spot metering

Exposure System

Shutter speed	1/2 - 1/2000s / < 4s (Night scene / A mode)
Exposure compensation	+/- 2 EV / 1/3 steps
Enhancement function	Mechanical Image Stabiliser (Sensor shift)
	Advanced Face Detection Technology
	Shadow Adjustment Technology
Modes	i-Auto
	Programme automatic
	Aperture priority
	Custom shooting
	Underwater
	Microscope
	Scene Modes
	Art Filter
	Movie

Scene Modes

Number of scene modes	16
Modes	Portrait
	e-Portrait
	Landscape
	Landscape with Portrait
	Hand-held Starlight
	Night Scene
	Night Scene with portrait
	Children
	Sports
	Candle
	Sunset
	Fireworks
	Beach and Snow
	Panorama
	Live Composite
	Backlight HDR

Art Filter

Modes	Pop Art
	Soft Focus
	Pale & Light Colour
	Light Tone
	Grainy Film
	Pin Hole
	Diorama
	Cross Process
	Gentle Sepia
	Dramatic Tone
	Key Line
	Water colour
	Vintage
	Partial Colour*
	Bleach Bypass
	Instant Film

Sensitivity

Auto	AUTO
Manual	ISO 100 - 12800

White Balance

AUTO WB system	Yes
Preset values	6
Underwater WB presets	3
One-touch white balance	4 custom settings can be registered
Custom WB	1 setting can be registered at Kelvin temperature (2000K - 14000K)

Internal Flash

Modes	AUTO
	Red-eye reduction
	Fill-in
	Manual
	Off
Working range (wide)	0.2 - 7.9m (ISO 1600)
Working range (tele)	0.2 - 3.1m (ISO 1600)
Flash compensation	Yes

Wireless Flash Control

Control method	Triggered and controlled (Olympus Wireless RC Flash system)
	Commander flash:
Compatible external flash	FL-36R, FL-50R, FL-300R, FL-600R, FL-700WR, FL-900R
Number of channels	1 channels
Group setting	1 groups

Sequence Shooting

Speed (H)	Approx. 20fps
	Max. number of frames: RAW 14 / JPG (LN): Up to card capacity
Speed (L)	5fps
	Max. number of frames: RAW 40 / JPG (LN): Up to card capacity
Pro Capture mode	
Speed (H)	10fps
Pre-shutter Frames	5 frames
Interval shooting	Yes

Still Image Recording

DCF	Yes
EXIF	2.3
PIM	III
DPOF	Yes

Image Processing

Pixel mapping	Yes
Noise reduction	Yes
Engine	TruePic VIII
Distortion compensation	Yes
Shading compensation	Yes

View Images

Modes	Single
	Index
	Zoom
	Slide show
	Event
Index	5 x 4 frames
Zoom	Yes; 1.1 - 14x
Auto rotation	Yes
Image protect mode	Yes
Histogram in playback mode	Yes

Image Editing

Editing functions	RAW data edit
	Gradation auto
	Monochrome
	Sepia
	Red-eye reduction
	Correction of saturation
	Resize
	Trimming
	Aspect ratio
	e-Portrait
	Image Overlay
	Voice Appendage

Movie Recording System

Recording format	MOV(MPEG-4AVC/H.264)
Image Stabilisation Mode	Digital Image Stabilisation
4K Movie quality	3840 x 2160 (4k) / 30p, 25p (approx. 102Mbps)
	Recording time: 29min.
HD Movie quality	1080P Recording time: 29min.
	720P Recording time: 29min.
	Speed Class 10 SD card is recommended for shooting movies. UHS-I Speed Class 3 SD card must be used for 4K video and high speed movie.

Movie Specialties

High-Speed Recording	640 x 360 (SD) / 480fps
	720P / 240fps
	1080P / 120fps
	Max. recording time: 20s
Time lapse	720p (AVI Motion JPEG®)
Art Filter	Pop Art
	Soft Focus
	Pale & Light Colour
	Light Tone
	Grainy Film
	Pin Hole
	Diorama
	Cross Process
	Gentle Sepia
	Dramatic Tone
	Key Line
	Water colour
	Vintage
	Partial Colour*
	Bleach Bypass
	Instant Film
	Not available for 4K and High Speed movies
	Frame rate may drop when using certain art filter

View Movie

Modes	Frame by frame
	Fast forward
	Reverse playback

Movie Editing

Trimming	Yes
In-movie image extraction	Yes (4K only)

Sound Recording System

Voice Playback	Yes
Sound recording	Yes; PCM
Internal microphone	Stereo
Image footage	4s
Speaker	Yes

Memory

Removable Media	SD / SDHC / SDXC (UHS-I class supported)
Eye-Fi Card compatible	Yes

Image Size

RAW	Yes
Resolution	4000 x 3000 - 640 x 480
Aspect ratio	4:3 / 3:2 / 16:9 / 1:1

Menu

Menu languages in camera	39

Tough Features

Shock resistant	2.1m (dropping from height)
Waterproof	15m (water pressure equivalent to depth) **
Anti-fog	Dual pane glass
Freezeproof	-10°C
Crushproof	100kg
Dustproof	Yes ****
	* Equivalent to MIL Standard (Olympus test conditions)
	** According to IEC standard publication 529 IPX8
	*** According to Olympus test conditions
	**** According to IEC standard publication 529 IPX6

Other Features

GPS	Yes
Wireless control	Via OI. Share app
Electronic compass	Yes
Manometer	Yes
Thermometer	Yes
Level Gauge	Yes
SNS upload	Yes
Perfect Shot Preview	Yes
Panorama function	In-Camera Panorama
Self timer	Delay: 2 / 12s / Custom
Menu guide	Yes
LED Illuminator	Yes
Date imprint	Yes
	GPS info function: Via smartphone GPS data

Customisation Options

My Mode	2 settings storable

Power Supply

Battery	LI-92B Lithium-Ion Battery
Internal Charging	Yes

Interface

HDMI™	Yes; Micro connector (Type D) *
Wireless connectivity	WiFi
DC input	Yes
Combined A/V & USB output	Yes
USB 2.0 High Speed	Yes
	* "HDMI", the HDMI logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

Dimensions

Width	113mm
Height	66mm
Depth	32.4mm (without protrusions)
Weight	253g (including battery and memory card)