

TG-4

- Waterproof to 15m**, shockproof to 2.1m***, crushproof to 100kg**** and freezeproof to -10°C
- 4x wide optical zoom (25-100mm*)
- iHS Technology
- TruePic VII image processor
- 1:2.0-4.9 wide-aperture high-speed lens
- 8x with Super-Resolution Zoom
- 16 Megapixel backlit CMOS
- Microscope Mode



Extreme situations. Breathtaking pictures.

Enjoy superb image capture no matter the conditions with our new flagship STYLUS TOUGH TG-4 compact camera. Its robust exterior houses a high-speed 16 megapixel BSI CMOS sensor and high-performance TruePicVII image processor delivering spectacular photos and HD movies. An expert even in low-light, its 1:2.0 wide aperture 4x optical zoom lens equipped with FAST AF ensures you never miss the moment as your adventure unfolds. With the TOUGH TG-4 at your side, you have an ideal companion for any outdoor challenge: waterproof down to an amazing 15 meters, freezeproof to -10 °C, crushproof to 100kg and shockproof to 2.1m. Shoot the finer details of nature by close focussing to within 1 cm of your subject! The unique focus stacking mode creates macro photos with exceptional depth of field in-camera. Enjoy even greater creativity with a range of accessories including a fisheye- and tele-converter and the LED light guide for enhanced macro images. Share your photos and movies with built-in Wi-Fi and enjoy fast, accurate tracking of your adventures with GPS and e-Compass on board.

Specifications

Image Sensor

Effective pixels	16 Megapixels
Filter array	Primary colour filter (RGB)
Full resolution	16.8 Megapixels
Type	1/2.3" 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	4
Maximum aperture	2.0 - 4.9
Filter diameter	40.5mm

Digital Zoom

Enlargement factor	4x / 16x combined with optical zoom
Super Resolution Zoom	2x / 8x combined with optical zoom

Monitor

Monitor type	LCD
Monitor size	7.6cm / 3" (3:2)
Resolution	460000 dots
Brightness adjustment	+/- 2 levels
Frame assistance	Yes
Protection panel	Yes

Focusing System

Method	TTL iESP auto focus with contrast detection
Modes	iESP Face Detection AF Spot AREA AF Tracking
Selective Target	Yes
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

Light Metering

Histogram in shooting mode	Yes
Modes	ESP light metering Spot metering

Exposure System

Shutter speed	1/2 - 1/2000s / < 4s (Night scene)
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 Panorama Movie

Scene Modes

Number of scene modes	28
Modes	Portrait e-Portrait Landscape Interval shooting Live Composite Hand-held Starlight Night Scene Night Scene with portrait Sports Indoor Self-portrait Sunset Fireworks Cuisine Documents Beach and Snow Snow Panorama Backlight HDR Underwater Snapshot Underwater Wide 1 Underwater Wide 2 Underwater Macro Underwater HDR Microscope Focus Stacking Focus Bracketing Microscope Control

Sensitivity

Auto	AUTO / High AUTO
Manual	ISO 100, 200, 400, 800, 1600, 3200, 6400

White Balance

AUTO WB system	Yes
Preset values	Overcast Sunlight Tungsten Underwater Flourescent 1
One-touch white balance	1 custom settings can be registered

Internal Flash

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

External Flash Control

Wireless flash control	-
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Sequence Shooting

Reduced resolution	60fps / 100 frames (in 3MP mode) 15fps / 100 frames (in 3MP mode)
Full resolution	5fps / 100 frames (Full Image Size)
Interval shooting	Yes

Image Processing

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

View Images

Modes	Single Index Zoom Slide show Event
Index	5 x 4 frames
Zoom	Yes 1.1 - 10x
Auto rotation	Yes
Image protect mode	Yes
Histogram in playback mode	Yes

View Movie

Modes	Frame by frame Fast forward Reverse playback
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Still Image Recording

DCF	Yes
EXIF	2.3
PIM	III
DPS	PictBridge
DPOF	Yes

Movie Recording System

Recording format	MOV (H.264) / HS Movie: AVI (Motion JPEG)
Image Stabilisation Mode	Multi-motion Movie IS
HD Movie quality	1080P Recording time: 29min. 720P Recording time: 29min.
Movie quality	VGA Recording time: Up to card capacity Note: maximum file size 4GB When shooting 1080P/720P movies, use SDHC / SDXC class 6 or higher.

Movie Specialties

High-Speed Recording	QVGA / 240fps 20sec. VGA / 120fps Recording time: 20sec.
Time lapse	720p (AVI Motion JPEG®)
Magic Filter	Pop Art Soft Focus Pale & Light Colour Grainy Film Pin Hole Diorama Dramatic Tone

Sound Recording System

Voice Playback	Yes
Sound recording	Yes , format: PCM
Internal microphone	Stereo
Image footage	4s
Speaker	Yes

Memory

Removable Media	SD / SDHC / SDXC (UHS-I class supported)
Internal memory	55MB
Eye-Fi Card compatible	Yes

Image Size

RAW	Yes
16M	4608 x 3456
8M	3264 x 2448
3M	2048 x 1536
VGA	640 x 480
Aspect ratio	4:3 / 3:2 / 16:9 / 1:1

Menu

Menu languages in camera	39
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Tough Features

Shock resistant	Shock-proof from heights of up to 2.1m *
Waterproof	Waterproof up to a water pressure equivalent to 15m depth **
Freezeproof	Freezeproof down to -10°C ***
Crushproof	Crushproof up to 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

Tap Control	Yes
GPS	Yes
Electronic compass	Yes
SNS upload	Yes
Manometer	Yes
Perfect Shot Preview	Yes
Panorama function	In-Camera Panorama
Self timer	Delay: 2 / 12s / Custom
Menu guide	Yes
Date imprint	Yes
LED Illuminator	Yes
Level Gauge	Yes

Customisation Options

My Mode	2 settings storable
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Power Supply

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

Interface

HDMI™	Yes Micro connector (Type D) *
Wireless connectivity	WiFi Eye-Fi Card compatible FlashAir
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.

Size

Dimensions (W x H x D)	111.5 x 65.9 x 31.2mm
Weight	247g (including battery and memory card)

Art Filter

Modes	Pop Art Soft Focus Pale & Light Colour Grainy Film Pin Hole Diorama Dramatic Tone
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*Equivalent to a 35mm camera

**According to IEC standard publication 529 IPX8

***Equivalent to MIL Standard (Olympus test conditions)

****According to Olympus test conditions