

TG 850

- Waterproof to 10m**, shockproof to 2.1m***, crushproof to 100kg**** and freezeproof to 10°C
- 5x wide optical zoom (21 105mm*)
- iHS Technology
- TruePic VII image processor
- 21mm ultra wide angle lens
- 10x with Super Resolution Zoom
- 16 Megapixel backlit CMOS
- 7.6cm/3.0" 460,000 dot LCD



TOUGH – and talented

Live your active lifestyle to the extreme and take your Tough TG 850 with you. It's been specially designed to perform in any rough conditions, on any rugged adventure and during all your action packed travels. Anything that comes its way from freezing cold temperatures, water dives or splashes, rough handling or hard hits is no match for this camera. The stable construction houses a range of adventure ready features, like an ultra wide lens and tilting LCD, that won't let you down.

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	5x (WIDE)
Focal length	3.74 18.7mm
Focal length (equiv. 35mm)	21 105mm
Structure	10 lenses / 8 groups
Aspherical glass elements	5
Maximum aperture	3.5 5.7

Digital Zoom

Enlargement factor	4x / 20x combined with optical zoom
Super Resolution Zoom	2x / 10x combined with optical zoom

Monitor

Monitor type	LCD
Monitor size	7.6cm / 3.0" (16:9)
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 AF Tracking
Standard mode	0.1m (wide) / 0.1m (tele)
Super Macro Mode	Closest focusing distance: 1cm
AF lock	Yes
AF illuminator	Yes

Light Metering

Histogram in shooting mode	Yes
Modes	ESP light metering Spot metering

Exposure System

Modes	i-Auto Programme automatic Super Macro Scene Modes Art Filter Panorama Hand-held Starlight e-Portrait
Shutter speed	1/2 1/2000s / < 4s (Night scene)
Exposure compensation	+/- 2EV / 1/3 steps
Enhancement function	Mechanical Image Stabiliser (Lens shift) Advanced Face Detection Technology Shadow Adjustment Technology

Scene Modes

Number of scene modes	18
Modes	Portrait Landscape Interval shooting Night Scene Night Scene with portrait Sports Indoor Self-portrait Sunset Fireworks Cuisine Documents Beach and Snow Underwater Snapshot Underwater Wide 1 Underwater Wide 2 Underwater Macro Backlight HDR

Art Filter

Modes	Pop Art Soft Focus Pale & Light Colour Grainy Film Pin Hole Diorama Dramatic Tone
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Sensitivity

Auto	AUTO / High AUTO
Manual	ISO 125, 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)	0.12 4m (ISO 1600)
Working range (tele)	0.1 2.5m (ISO 1600)

Sequence Shooting

Reduced resolution	60fps / 60 frames (in 3MP mode) 20fps / 60 frames
Full resolution	7fps / 6 frames (Full Image Size) 2.5fps / 200 frames
Interval shooting	Yes

Image Processing

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

Image Editing

Editing functions	Resize Trimming Correction of saturation Red-eye reduction Shadow Adjustment
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Movie Editing

Still Image Cropping	Yes
Edit movie	Yes

View Images

Modes	Single Index Zoom Slide show
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	QuickTime Motion JPEG®
Image Stabilisation Mode	Hybrid lens shift + digital (5 axis)
HD Movie quality	1080 60P Recording time: 29min. 720P Recording time: 29min.
Movie quality	VGA Recording time: Up to card capacity
High-Speed Recording	432 x 324 / 240fps 20sec. VGA / 120fps Recording time: 20sec. Note: maximum file size 4GB
	When shooting 1080P/720P movies, use SDHC / SDXC class 6 or higher.
Art 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

Internal memory	37MB
Removable Media	SD / SDHC / SDXC (UHS I class supported)
Capacity	128GB
Eye-Fi Card compatible	Yes
FlashAir Card compatibility	Yes

Image Size

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 10m 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

Premium functions	iHS Technology
Perfect Shot Preview	Yes
Panorama function	Smart Panorama
Self timer	Delay: 2 / 12s / Custom
Menu guide	Yes
Date imprint	Yes
SNS upload	Yes
LED Illuminator	Yes

Power Supply

Battery	LI 50B Lithium Ion Battery
Internal Charging	Yes

Interface

HDMI™	Yes Micro connector (Type D) *
Wireless connectivity	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)	109.9 x 64.1 x 27.6mm
Weight	218g (including battery and memory card)

Exterior

Material	Metal
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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