

TG-830

- Waterproof to 10m**, shockproof to 2.1m***, crushproof to 100kg**** and freezeproof to -10°C
- 10x with Super-Resolution Zoom
- 16 Megapixel backlit CMOS
- 7.6cm/3.0" 460,000 dot HyperCrystal III LCD
- 5x wide optical zoom (28-140mm*)
- iHS Technology
- TruePic VI image processor
- Dual Image Stabilisation



Built to survive - and excel

The TG-830 is built specifically to withstand almost anything that comes its way – from extreme heat and cold, to moisture, dust, knocks and bumps. Its resilient body cannot fail to impress, and makes it ideal for any extreme activities – from skiing and snowboarding to mountaineering, sailing or climbing. A 5x wide optical zoom lets you zoom in to the action or capture wide-angle landscapes – all with the same lens. Switch on Super-resolution Zoom and you can boost that magnification to 10x without any discernible loss of the excellent image quality. Whether stills or movies, the TruePic VI processor and backlit CMOS sensor deliver every time. Movies are captured in different formats, e.g. 1080 Full HD 60i, Full HD 30p or 120fps high-speed HD, which you can play back in super-slow motion. When time is tight, you can even shoot Full HD movies and full-size photos simultaneously. To share your handiwork via the Web, just connect wirelessly to a FlashAir™ card and your smartphone. Thanks to built-in GPS and electronic compass, your location and camera direction will be included with every shot. The TG-830 will also display more than 700,000 geographic and natural points of interest to discover. Let the adventure begin!

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	5.0 - 25.0mm
Focal length (equiv. 35mm)	28 - 140mm
Structure	11 lenses / 8 groups
Aspherical glass elements	4
ED glass elements	1
Maximum aperture	3.9 - 5.9

Digital Zoom

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

Monitor

Monitor type	HyperCrystal III LCD
Monitor size	7.6cm / 3.0" (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 AF Tracking
Standard mode	0.2m - (wide) / 0.5m - (tele)
Super Macro Mode	Closest focusing distance: 3cm
AF lock	Yes
AF illuminator	Yes

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 Stabiliser (Sensor shift) Advanced Face Detection Technology Shadow Adjustment Technology Pet Detection
Modes	i-Auto Programme automatic Panorama Hand-held Starlight Scene Modes Magic Filter P + Movie clip Advanced Movie

Scene Modes

Number of scene modes	21
Modes	Portrait Beauty Landscape Night Scene Night Scene with portrait Sports Indoor Self-portrait

Magic Filter

Types	Pop Art Pin Hole Fisheye Soft Focus Punk Sparkle Water colour Reflection
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Multi-Recording

Modes	Photo & Movie Capture Photo with Movie Clip
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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)	0.2 - 3.3m (ISO 800)
Working range (tele)	0.5 - 2.1m (ISO 800)

Sequence Shooting

Sequential shooting mode (high speed)	60.3fps / 60 frames (in 3MP mode) 20fps / 60 frames (in 3MP mode)
Sequential shooting mode	2.5fps / 200 frames (Full Image Size) 11.5fps / 17 frames (Full Image Size)

Image Processing

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

Image Editing

Resize	Yes
Trimming	Yes
Correction of saturation	Yes
Beauty Fix	Yes
Red-eye reduction	Yes
Shadow Adjustment	Yes

Movie Editing

Still Image Cropping	Yes
Edit movie	Yes

View Images

Modes	Single Index Zoom Slide show Event Location
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	Multi-motion Movie IS
HD Movie quality	1080P Recording time: 29min. 720P Recording time: 29min.
Movie quality	VGA Recording time: Up to card capacity QVGA Recording time: Up to card capacity
High-Speed Recording	432 x 324 / 240fps 20sec. 1280 x 720 / 120fps Recording time: 20sec. Note: maximum file size 4GB When shooting 1080P/720P movies, use SDHC / SDXC class 6 or higher.
Magic Filter	Pop Art Pin Hole Fisheye Soft Focus Punk Water colour Reflection Miniature

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	39MB
Eye-Fi Card compatible	Yes

Image Size

16M	-
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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****According to Olympus test conditions

Other Features

Shock resistant	Shock-proof from heights of up to 2m *
Waterproof	Waterproof up to a water pressure equivalent to 10m depth **
GPS	Yes
Electronic compass	Yes
SNS upload	Yes
Freezeproof	Freezeproof up to -10°C ***
Crushproof	Crushproof up to 100kg ****
Dustproof	Yes
Perfect Shot Preview	Yes
Panorama function	Smart Panorama
Self timer	2 / 12s Pet auto shutter
Menu guide	Yes
Date imprint	Yes
LED Illuminator	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

Power Supply

Battery	LI-50B Lithium-Ion Battery
Internal Charging	Yes

Interface

HDMI™	Yes Micro connector (Type D) *
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)	109.5 x 66.5 x 28.4mm
Weight	214g (including battery and memory card)

*Equivalent to a 35mm camera

**According to IEC standard publication 529 IPX8

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