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PowerShot GOLF Laser Rangefinder

Device

Type of Device	Monocular Camera-equipped Telescopic Laser Rangefinder
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Laser Rangefinding

Laser Classification	FDA 21 CFR Part 1040.10: Class I Laser Product
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Measurement Range	Approximately 7.0 – 800 yds (6.4 – 732 m) (Range may be limited by object measured or environment)
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Measurement Accuracy	Less than 100 yds (91 m) – +/- 1.0 yd. (0.91 m) 100 yds. (91 m) or more – +/- 2.0 yd. (1.83 m) (Straight-line measurement, based on Canon testing standards)
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Distance Display Increment	0.5 yds (0.5 m)
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Measurement Speed	Approx. 0.8 Sec.
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Measurement Methods/Modes	<ul style="list-style-type: none">• Slope-adjusted Measurement• Straight-line Distance
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(with [SLOPE] set to [ON]: Horizontal distance +/- difference in elevation)
(with [SLOPE] set to [Off]: Playback function and image delete function are restricted)

Slope Sensor	Built-in
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Continuous Rangefinding	Available (Holding down the measure button halfway fires the laser for approx. 8 sec. after which flagpole-locking detects the target of measurement)
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Still Photo/Movie Recording	Available (Selecting [Ranging+Photo] from the [Mode] menu enables still/video recording with rangefinder results superimposed over the image)
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Image Sensor

Type	1/3-inch CMOS Sensor
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Pixels	EFFECTIVE: Up to approx. 11 megapixels TOTAL: approx 13.5 megapixels
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Aspect Ratio	4:3 (Horizontal: Vertical)
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Lens

Focal Length	51.0mm (equivalent to approx. 410mm (35mm equivalent))
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Shooting Range	Approx. 4.4 yd (approx. 4 m) to infinity
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Digital Zoom	Enables approx. 2X magnification
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Telephoto Magnification	When equivalent to approx. 410mm – 6X When equivalent to approx. 820mm – 12X (using digital zoom)
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F-Number	f/3.9 (no aperture control)
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Image Stabilization

Type	Lens Shift System – 2-axis correction (pitch/yaw) (Stabilization cannot be deactivated.)
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Movie Digital IS	Not Available
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Recording Media

Compatible Media	microSD / microSDHC / microSDXC memory cards * UHS-I Compatible
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Error Warnings	Displayed in the viewfinder
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Card formatting	Normal (Logical) Formatting (low-level formatting not available)
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No Card Warning	Available
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Shutter Release Without Card	Not Supported
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Image Recording Format	Compliant with Design rule for Camera File System 2.0 and Exif 2.31 (Time difference information supported)
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Folder Setting	Folders Created Automatically (selection of folders on cards not available)
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File Name Settings	Not supported
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File Number	Auto Reset (when cards are replaced, the numbering is reset to start from 0001. If the new card already contains images the existing numbering is continued)
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Movie Recording

Format	Container Format: MP4 Video: H.264 / MPEG-4 AVC Audio: MPEG-4 AAC -LC (Stereo)
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Quality	Full HD 1920x1080 (Movie recording size not adjustable) (Lower image quality when recording at equivalent of approx. 820mm due to digital zoom).
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Frame Rate	When set to NTSC: 30 fps / 24 fps When set to PAL: 25.00 fps
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Maximum Recording Time per Movie	59 Seconds
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Total recording Time Available	8 GB: Max 33 min. 32 GB: Max 132 min. 128 GB: Max 530 min.
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Maximum File Size	microSD FAT12/16: Max 2 GB microSDHC FAT32: Max 4 GB microSDXC exFAT: Unlimited
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Card Performance Requirements	SD Speed Class 6 or Higher
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Video System	NTSC/PAL
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Recording Microphone	Built-in Stereo Microphones (No external microphone IN terminal provided).
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White Balance	Auto
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Viewfinder

Type	OLED Color Electronic Viewfinder
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Size	0.39 Inch
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Dot Count	Width: 1024 Dots Height: 768 Dots Total: Approx. 2,360,000 Dots
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Coverage	Approx. 100% (With eyepoint of approx. 20 mm)
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Brightness Adjustment	Not supported
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Electronic Viewfinder Refresh Rate	59.954 fps
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Autofocus

Focusing Method	Contrast Detection
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Continuous AF	Enable / Disable (AF is active during movie recording under all settings.)
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Eye Detection	Not supported
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AF Point Display	Shown in the viewfinder when the shutter button is pressed halfway
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Focus Confirmation (show in viewfinder)	Green Frame: In Focus Red Frame: Out of Focus
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Exposure Control

Shooting Mode	Autoexposure Shooting (Shooting mode selection not available)
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Metering Mode	Center-weighted average metering (Metering mode cannot be changed)
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ISO Speed	Still and Movie recording: Controlled automatically (ISO 100-3200)
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Exposure Compensation	+/- 3 stops in 1/3-stop increments
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Exposure Compensation Factors	Shutter Speed, ISO Speed
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Shutter

Type (for still and movie recording)	Electronic Shutter, using the image sensor
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Shutter Speed	Controlled Automatically (1/8000 to 1/30 Sec.)
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Drive Mode	Single Shooting
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Self-Timer	Not Provided
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Playback

Playback Methods	In Electronic Viewfinder On a computer or Smartphone
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Movie Playback	Play Skip backward (approx. 4 sec.) Previous frame Next Frame
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Skip Forward (approx. 4 sec.)

Erase Images	Select and erase images/all images on card
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Indicator Lamp	Green Lit/Blinking: Accessing Card Orange Lit: Charging in Progress Orange Off: Charging Completed
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Slope Function Lamp (Blue)	Blinking: Straight-line distance Off: Straight-line distance / Slope-adjusted distance
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Menus

Display Device	Shown in the electronic viewfinder
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Description	Rangefinding Shooting Playback Function Settings
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Display languages	English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Ukrainian, Norwegian, Swedish, Spanish, Russian, Turkish, Simplified Chinese, Traditional
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Firmware Updates	Available
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External Interface

Terminal Type	USB Type-C
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Transmission	Equivalent to Hi-Speed USB (USB 2.0)
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Applications	For charging the built-in battery and powering the rangefinder (Recognized as a USB device when connected to computers; images on the rangefinder memory)
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Wireless Connections

Wi-Fi Connectivity	Not Provided
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Bluetooth Connectivity	Not Provided
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Date/Time Function

Time Zone Settings	Honolulu, Anchorage, Los Angeles, Denver, Chicago, New York, Caracas, New Foundland, São Paulo, Fernando de Noronha, Azores, London, Paris, Cairo, Moscow, Tehran, Dubai, Kabul, Karachi, Delhi, Kathmandu, Dacca, Yangon, Bangkok, Beijing/Singapore, Tokyo/Seoul, Adelaide, Sydney, Solomon Islands, Wellington, Chatham Islands, Samoa
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Time Difference Setting	Available (in 15-minute Increments)
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Daylight saving time	Available
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Date/Time back-up Battery	Same as battery that powers the rangefinder
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Power Source

Battery	Built-in rechargeable Lithium-ion battery
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Rated voltage/Capacity	3.7 V, 1000 mAH
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Recharge Cycles	Approx. 300 charging/usage cycles
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USB Power Source	5 V 0.5 A or more (5 V 1 A or more recommended)
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Charging over USB	Supported
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Power over USB	Supported
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USB Charging Time	Approx. 2 hr. 30 min. (The charging time required and the amount charged vary depending on ambient temperature and remaining capacity).
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Number of Still Photos that can be taken	Approx. 200 shots (With a new, fully charged battery at room temperature (73°F))
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Time Available for Movie Recording	Approx. 1 hr. 10 min. (With a new, fully charged battery at room temperature (73°F))
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Time Available for Image Display	Approx. 1 hr. 40 min. (With a new, fully charged battery at room temperature (73°F))
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Battery Check	Battery level automatically checked and indicated in a 4-level display when the unit is powered
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Power Saving Function	Auto Power off: 5 sec. / 10 sec. / 15 sec. Viewfinder off: 1 min. / 3 min.
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Exterior

Body Material	Polycarbonate and Stainless Steel
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Exterior Color	Black
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Water Resistance	Equivalent to IPX4 (Not dustproof)
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Dimensions and Weight

Dimensions (W) x (H) x (D)	Approx. 1.2 x 2.3 x 3.6 in. (31.0 x 58.9 x 91.2 mm)
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Weight (including memory card)	Approx. 5.3 oz (151 g)
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Operating Environment

Usable Temperature	32-104°F (0-40°C)
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Usable Humidity	10-90%
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