Instruction Manual

Instruction manuals (PDF files) and software can be downloaded from the Canon Web site (p.4, 315).

www.canon.com/icpd
Specifications

• Type
Type: Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media: SD memory card, SDHC memory card, SDXC memory card
Image sensor size: Approx. 22.3 x 14.9 mm
Compatible lenses: Canon EF lenses (including EF-S lenses)
  * Excluding EF-M lenses
  (35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.)
Lens mount: Canon EF mount

• Image Sensor
Type: CMOS sensor
Effective pixels: Approx. 24.1 megapixels
  * Rounded to the nearest 100,000.
Aspect ratio: 3:2
Dust delete feature: Dust Delete Data appending, Clean manually

• Recording System
Recording format: Design rule for Camera File System (DCF) 2.0
Image type: JPEG, RAW (14-bit Canon original)
  RAW+JPEG Large simultaneous recording possible
Pixels recorded:
  L (Large) : 24 megapixels (6000 x 4000)
  M (Medium) : Approx. 10.6 megapixels (3984 x 2656)
  S1 (Small 1) : Approx. 5.9 megapixels (2976 x 1984)
  S2 (Small 2) : Approx. 2.5 megapixels (1920 x 1280)
  S3 (Small 3) : Approx. 350,000 pixels (720 x 480)
  RAW : 24 megapixels (6000 x 4000)
  * Rounded to the nearest 100,000. (For the S3, rounded to the nearest 10,000.)
Create/select a folder: Possible
File numbering: Continuous, Auto reset, Manual reset

• Image Processing During Shooting
Picture Style: Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3
Basic+: Ambience-based shots, Light/scene-based shots
White balance: Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom
White balance correction, and White balance bracketing provided
  * Flash color temperature information transmission enabled
Specifications

Noise reduction: Applicable to long exposures and high ISO speed shots
Automatic image brightness correction: Auto Lighting Optimizer provided
Highlight tone priority: Provided
Lens peripheral illumination correction: Provided

• **Viewfinder**
  Type: Eye-level pentamirror
  Field of view coverage: Vertical/Horizontal approx. 95% (with eyepoint approx. 21 mm)
  Magnification: Approx. 0.8x (-1 m⁻¹ with 50mm lens at infinity)
  Eyepoint: Approx. 21 mm (from eyepiece lens center at -1 m⁻¹)
  Diopteric adjustment range: Approx. -2.5 - +0.5 m⁻¹ (dpt)
  Focusing screen: Fixed, Precision Matte
  Mirror: Quick-return type
  Depth-of-field preview: Enabled with Custom Function setting

• **Autofocus** (for viewfinder shooting)
  Type: TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
  AF points: 9-point (All AF points support f/5.6. Cross-type AF with center AF point.)
  Focusing brightness range: EV 0 - 18 (Center AF point)
  (EV 1 - 18 (Other AF points)
  (With One-Shot AF, at room temperature, ISO 100)
  AF operation: One-Shot AF, AI Servo AF, AI Focus AF
  AF-assist beam: Small series of flashes fired by built-in flash

• **Exposure Control**
  Metering modes: 63-zone TTL open-aperture metering
  • Evaluative metering (linked to all AF points)
  • Partial metering (approx. 10% of viewfinder at center)
  • Center-weighted average metering
  Metering brightness range: EV 1 - 20 (at room temperature, ISO 100)
  Shooting mode: Basic Zone modes:
  Scene Intelligent Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Food, Night Portrait
  Creative Zone modes:
ISO speed

<table>
<thead>
<tr>
<th>Mode</th>
<th>ISO Range</th>
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</thead>
<tbody>
<tr>
<td>Basic Zone modes*</td>
<td>ISO 100 - ISO 3200 set automatically</td>
</tr>
<tr>
<td>* Portrait: ISO 100</td>
<td></td>
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<tr>
<td>Creative Zone modes:</td>
<td>ISO 100 - ISO 6400 set manually (whole-stop increments), ISO 100 - ISO 6400 set automatically, maximum ISO speed settable for ISO Auto, or ISO expansion to “H” (equivalent to ISO 12800)</td>
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</tbody>
</table>

Exposure compensation:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Manual: ±5 stops in 1/3- or 1/2-stop increments</th>
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<tbody>
<tr>
<td>AEB</td>
<td>±2 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)</td>
</tr>
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</table>

AE lock:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Auto: Applied in One-Shot AF with evaluative metering when focus is achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual</td>
<td>With AE lock button</td>
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**Shutter**

Type: Electronically-controlled, focal-plane shutter

Shutter speed: 1/4000 sec. to 30 sec. (Total shutter speed range. Available range varies by shooting mode.), Bulb, X-sync at 1/200 sec.

**Flash**

Built-in flash: Retractable, auto pop-up flash

Guide No.: Approx. 9.2/30.2 (ISO 100, in meters/feet) or approx. 13/42.7 (ISO 200, in meters/feet)

Flash coverage: Approx. 17mm lens angle of view

Recharge time: Approx. 2 sec.

External Speedlite: Compatible with EX-series Speedlites

Flash metering: E-TTL II autoflash

Flash exposure compensation: ±2 stops in 1/3- or 1/2-stop increments

FE lock: Provided

PC terminal: Not provided

**Drive System**

Drive mode: Single shooting, Continuous shooting, Self-timer with 10-sec. or 2-sec. delay and 10-sec. delay with continuous shooting

Continuous shooting speed: Max. approx. 3.0 shots/sec.

Max. burst (Approx.):

<table>
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<tr>
<th>Format</th>
<th>JPEG Large/Fine: 150 shots</th>
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<tbody>
<tr>
<td></td>
<td>RAW: 11 shots</td>
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<tr>
<td></td>
<td>RAW+JPEG Large/Fine: 6 shots</td>
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</table>

* Figures are based on Canon’s testing standards (ISO 100 and Standard Picture Style) using an 8 GB card.
Specifications

• Live View Shooting

Aspect ratio: 3:2, 4:3, 16:9, 1:1
Focus method: Contrast detection (FlexiZone-Single, Face detection Live mode), Phase-difference detection (Quick mode)
Manual focus (approx. 5x / 10x magnification possible)
Focusing brightness range: EV 1 - 18 (at room temperature, ISO 100)
Metering mode: Real-time metering with image sensor
Metering brightness range: EV 0 - 20 (at room temperature, ISO 100)
Grid display: Two types

• Movie Shooting

Recording format: MOV
Movie: MPEG-4 AVC/H.264
Audio: Linear PCM
Recording size and frame rate: 1920x1080 (Full HD): 30p/25p/24p 1280x720 (HD): 60p/50p 640x480 (VGA): 30p/25p
* 30p: 29.97 fps, 25p: 25.00 fps, 24p: 23.98 fps, 60p: 59.94 fps, 50p: 50.00 fps
Bit rate: 1920x1080 (30p/25p/24p): Approx. 46 Mbps 1280x720 (60p/50p): Approx. 46 Mbps 640x480 (30p/25p): Approx. 11 Mbps
Focus method: Same as focusing with Live View shooting
Focusing brightness range: EV 1 - 18 (at room temperature, ISO 100)
Metering mode: Center-weighted average and evaluative metering with the image sensor
* Automatically set by the focus method.
Metering brightness range: EV 0 - 20 (at room temperature, ISO 100)
Exposure control: Autoexposure and manual exposure
Exposure compensation: ±3 stops in 1/3-stop increments
ISO speed
(Recommended exposure index): ISO 100 - ISO 6400 set automatically
With manual exposure:
ISO 100 - ISO 6400 set automatically/manually
Video snapshots: Settable to 2 sec./4 sec./8 sec.
Sound recording: Built-in monaural microphone
Sound-recording level adjustable, wind filter provided
Grid display: Two types
Still photo shooting: Not possible during movie shooting
• **LCD Monitor**
  Type: TFT color liquid-crystal monitor
  Monitor size and dots: Approx. 7.5 cm (3.0 in.) (4:3) with approx. 920,000 dots
  Brightness adjustment: Manual (7 levels)
  Interface languages: 25
  Feature guide: Displayable

• **Playback**
  Image display format: Basic info, basic info + image quality/playback number, shooting info. display, histogram, index display (4/9)
  Zoom magnification: Approx. 1.5x - 10x
  Highlight alert: Overexposed highlights blink
  Image browsing method: Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating
  Image rotation: Possible
  Ratings: Provided
  Movie playback: Enabled (LCD monitor, HDMI)
  Built-in speaker
  Image protection: Possible
  Slide show: All images, by date, by folder, by movies, by stills, by rating
  Five transition effects selectable
  Background music: Selectable for slide shows and movie playback

• **Post-Processing of Images**
  Creative filters: Grainy B/W, Soft focus, Fish-eye effect, Toy camera effect, Miniature effect
  Resize: Possible

• **Direct Printing**
  Compatible printers: PictBridge-compatible printers
  Printable images: JPEG and RAW images
  Print ordering: DPOF Version 1.1 compatible

• **Customization Features**
  Custom Functions: 11
  My Menu registration: Possible
  Copyright information: Entry and appending possible
Specifications

• **Interface**
  - Digital terminal: Hi-Speed USB equivalent: Computer communication, Direct printing, GPS Receiver GP-E2, Connect Station CS100 connection
  - HDMI mini OUT terminal: Type C (Auto switching of resolution)
  - Remote control terminal: For Remote Switch RS-60E3
  - Eye-Fi card: Compatible

• **Power**
  - Battery: Battery Pack LP-E10 (Quantity 1)
    * AC power can be supplied via household power outlet accessories.
  - Number of possible shots: With viewfinder shooting:
    - Approx. 500 shots at room temperature (23°C/73°F),
    - approx. 410 shots at low temperatures (0°C/32°F)
    - With Live View shooting:
    - Approx. 240 shots at room temperature (23°C/73°F),
    - approx. 230 shots at low temperatures (0°C/32°F)
    * With a fully-charged Battery Pack LP-E10.
  - Movie shooting time:
    - Approx. 1 hr. 30 min. at room temperature (23°C/73°F)
    - Approx. 1 hr. 25 min. at low temperatures (0°C/32°F)
    * With a fully-charged Battery Pack LP-E10.

• **Dimensions and Weight**
  - Dimensions (W x H x D): Approx. 129.0 x 101.3 x 77.6 mm / 5.08 x 3.99 x 3.06 in.
  - Weight:
    - Approx. 475 g / 16.75 oz. (Including battery and card),
    - Approx. 427 g / 15.06 oz. (Body only)

• **Operation Environment**
  - Working temperature range: 0°C - 40°C / 32°F - 104°F
  - Working humidity: 85% or less

- All the data above is based on Canon’s testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and the exterior are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.