

Canon

EOS 6D Mark II



Instruction manuals (PDF files) and software can be downloaded from the Canon Web site (p.4, 596).

www.canon.com/icpd



**INSTRUCTION
MANUAL**

Specifications

• Type

Type:	Digital, single-lens reflex, AF/AE camera
Recording media:	SD/SDHC*/SDXC* memory cards * UHS-I cards compatible.
Image sensor size:	Approx. 35.9 x 24.0 mm
Compatible lenses:	Canon EF lenses * Excluding EF-S and EF-M lenses (The effective angle of view of a lens is approximately equivalent to that of the focal length indicated.)
Lens mount:	Canon EF mount

• Image Sensor

Type:	CMOS sensor
Effective pixels:	Approx. 26.2 megapixels * Rounded to the nearest 100,000.
Aspect ratio:	3:2
Dust deletion:	Auto/Manual, Appending Dust Delete Data

• Recording System

Recording format:	Design rule for Camera File System (DCF) 2.0
Image type:	JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible
Pixels recorded:	L (Large) : Approx. 26.0 megapixels (6240 x 4160) M (Medium) : Approx. 11.5 megapixels (4160 x 2768) S1 (Small 1) : Approx. 6.5 megapixels (3120 x 2080) S2 (Small 2) : Approx. 3.8 megapixels (2400 x 1600) RAW : Approx. 26.0 megapixels (6240 x 4160) M-RAW : Approx. 14.6 megapixels (4680 x 3120) S-RAW : Approx. 6.5 megapixels (3120 x 2080) * Rounded to the nearest 100,000.
Aspect ratio:	3:2, 4:3, 16:9, 1:1
Folder creation and selection:	Possible
File numbering:	Continuous, Auto reset, Manual reset

• Image Processing During Shooting

Picture Style:	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1 - 3
White balance:	Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500-10000 K) White balance correction and white balance bracketing features provided * Flash color temperature information transmission possible
Automatic image brightness correction:	Auto Lighting Optimizer provided
Noise reduction:	Applicable to high ISO speed shots and long exposures
Highlight tone priority:	Provided
Lens aberration correction:	Peripheral illumination correction, Chromatic aberration correction, Distortion correction, Diffraction correction

• Viewfinder

Type:	Eye-level pentaprism
Field of view coverage:	Vertical/Horizontal approx. 98% (with eyepoint approx. 21 mm and aspect ratio set to 3:2)
Magnification:	Approx. 0.71x (-1 m ⁻¹ with 50mm lens at infinity)
Eyepoint:	Approx. 21 mm (from eyepiece lens center at -1 m ⁻¹)
Dioptic adjustment range:	Approx. -3.0 - +1.0 m ⁻¹ (dpt)
Focusing screen:	Fixed, Precision Matte
Grid display:	Provided
Electronic level:	Provided
Function setting display:	Battery level (remaining capacity), Shooting mode, AF operation, Image quality (Image type), Drive mode, Metering mode, Flicker detection, Warning! display
Mirror:	Quick-return type
Depth-of-field preview:	Provided

• **Autofocus** (during viewfinder shooting)

Type:	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
AF points:	Max. 45 points (Cross-type AF point: Max. 45 points) * Number of available AF points, Dual cross-type AF points, and Cross-type AF points vary depending on the lens used. * Dual cross-type focusing at f/2.8 with center AF point when Group A (of the AF groups) lenses are used.
Focusing brightness range:	EV -3 - 18 (with the center AF point supporting f/2.8, One-Shot AF, room temperature, ISO 100)
Focus operation:	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)
AF area selection mode:	Single-point Spot AF (manual selection), Single-point AF (manual selection), Zone AF (manual selection of zone), Large zone AF (manual selection of zone), Automatic selection AF
AF point automatic selection conditions:	Automatic AF point selection possible based on color information equivalent to human skin-tone
AI Servo AF characteristics:	Characteristics can be set with Custom Functions for Tracking sensitivity, Acceleration/deceleration tracking, and AF point auto switching
AF fine adjustment:	AF Microadjustment (All lenses by the same amount, Adjust by lens)
AF-assist beam:	With the EOS-dedicated external Speedlite

• **Exposure Control**

Metering mode:	Approx. 7,560-pixel RGB+IR metering sensor and 63-zone TTL open-aperture metering • Evaluative metering (linked to all AF points) • Partial metering (approx. 6.5% of viewfinder at center) • Spot metering (approx. 3.2% of viewfinder at center) • Center-weighted average metering
Metering brightness range:	EV 1 - 20 (at room temperature, ISO 100)

Shooting mode:	<p>Basic Zone modes: Scene Intelligent Auto, Creative Auto, Special Scene (Portrait, Group Photo, Landscape, Sports, Kids, Panning, Close-up, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control)</p> <p>Creative Zone modes: Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shooting modes (C1/C2)</p>
ISO speed (Recommended exposure index):	<p>Basic Zone modes: ISO speed set automatically P, Tv, Av, M, B: ISO Auto, ISO 100 - ISO 40000 manual setting (in 1/3- or whole-stop increments), and expansion to L (equivalent to ISO 50), H1 (equivalent to ISO 51200), H2 (equivalent to ISO 102400) provided. * With highlight tone priority set, the minimum limit will be ISO 200.</p>
ISO speed settings:	ISO speed range, Auto range, and minimum speed limit for Auto settable
Exposure compensation:	<p>Manual: With viewfinder shooting: ± 5 stops in 1/3- or 1/2-stop increments With Live View shooting: ± 3 stops in 1/3- or 1/2-stop increments AEB (Auto Exposure Bracketing): ± 3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)</p>
AE lock:	<p>Auto: AE lock when focus is achieved can be enabled or disabled for each metering mode with a Custom Function Manual: With AE lock button</p>
Flicker reduction:	Provided
Interval timer:	Shooting interval and shot count settable
Bulb timer:	Bulb exposure time settable
Mirror lockup:	Provided

• HDR Shooting

Dynamic range adjustment: Auto, ± 1 , ± 2 , ± 3

Effects: Natural, Art standard, Art vivid, Art bold, Art embossed

Auto image alignment: Provided

• Multiple Exposures

Number of multiple exposures: 2 to 9 exposures

Multiple-exposure control: Additive, average

• 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 1/180 sec.

• Drive System

Drive mode: Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control, Self-timer: Continuous

Continuous shooting speed: High-speed continuous shooting: Max. approx. 6.5 shots/sec.

* The continuous shooting speed decreases during Antiflicker shooting, during Live View shooting with Servo AF, or during Live View shooting with an external Speedlite.

* The continuous shooting speed for high-speed continuous shooting may decrease depending on the temperature, battery level, flicker reduction, shutter speed, aperture, subject conditions, brightness, AF operation, lens, flash use, shooting function settings, etc. Low-speed continuous shooting: Max. approx. 3.0 shots/sec.

* The continuous shooting speed decreases during Live View shooting with an external Speedlite.

* During Panning mode in viewfinder shooting: Max. approx. 4.3 shots/sec., in Live View shooting: Max. approx. 2.7 shots/sec. (at 1/30 sec. shutter speed, with maximum aperture)

Max. burst: Silent continuous shooting: Max. approx. 3.0 shots/sec.
JPEG Large/Fine: Approx. 110 shots (Approx. 150 shots)
RAW: Approx. 18 shots (Approx. 21 shots)
RAW+JPEG Large/Fine: Approx. 17 shots (Approx. 19 shots)

- * Based on Canon's standard testing SD card (Standard: 8 GB, High-speed: 16 GB, UHS-I compatible) and standard testing conditions (High-speed continuous shooting, ISO 100, Standard Picture Style).
- * Figures in parentheses are the number of shots when a Canon's standard testing UHS-I SD card is used.

• External Speedlite

Compatible Speedlites:	EX-series Speedlites
Flash metering:	E-TTL II autofocus
Flash exposure compensation:	±3 stops in 1/3- or 1/2-stop increments
FE lock:	Provided
PC terminal:	Not provided
Flash control:	Flash function settings, Flash Custom Function settings

• Live View Shooting

Focus method:	Dual pixel CMOS AF
AF operation:	One-Shot AF, Servo AF
AF method:	Face+Tracking, Smooth zone, Live 1-point AF Manual focusing (approx. 5x and 10x magnification available for focus check)
Focusing brightness range:	EV -2.5 - 18 (at room temperature, ISO 100, One-Shot AF)
Metering mode:	Evaluative metering (315 zones), Partial metering (approx. 6.3% of Live View screen), Spot metering (approx. 2.7% of Live View screen), Center-weighted average metering
Metering brightness range:	EV 0 - 20 (at room temperature, ISO 100)
Silent Live View shooting:	Provided (Mode 1 and 2)
Touch Shutter:	Provided
Grid display:	3 types

• Movie Shooting

Recording format:	MP4 * For time-lapse movies: MOV format
Movie:	MPEG-4 AVC/H.264 Variable (Average) bit rate * For 4K time-lapse movies: Motion JPEG
Audio:	AAC
Movie recording size:	Full HD (1920x1080), HD (1280x720) * For time-lapse movies: 4K (3840x2160) and Full HD selectable
Frame rate:	59.94p/29.97p/23.98p (with NTSC) 50.00p/25.00p (with PAL)
Compression method:	Standard (IPB), Light (IPB) * For 4K time-lapse movies: Motion JPEG / Full HD time-lapse movies: ALL-I (For editing/I-only)
Bit rate:	[MP4] Full HD (59.94p/50.00p)/Standard (IPB) : Approx. 60 Mbps Full HD (29.97p/25.00p/23.98p)/Standard (IPB) : Approx. 30 Mbps Full HD (29.97p/25.00p)/Light (IPB) : Approx. 12 Mbps HD (59.94p/50.00p)/Standard (IPB) : Approx. 26 Mbps HD (29.97p/25.00p)/Light (IPB) : Approx. 4 Mbps [MOV] 4K time-lapse movies (29.97p/25.00p) : Approx. 500 Mbps Full HD time-lapse movies (29.97p/25.00p) : Approx. 90 Mbps
Card performance requirements:	[Movie] (Writing/reading speed) Full HD (59.94p/50.00p)/Standard (IPB) : SD Speed Class 10 or faster Full HD (29.97p/25.00p/23.98p)/Standard (IPB) : SD Speed Class 6 or faster Full HD (29.97p/25.00p)/Light (IPB) : SD Speed Class 4 or faster HD (59.94p/50.00p)/Standard (IPB) : SD Speed Class 6 or faster HD (29.97p/25.00p)/Light (IPB) : SD Speed Class 4 or faster

	[Time-lapse movie] (Reading speed)
	4K Time-lapse movie (29.97p/25.00p) : UHS-I 90 MB/sec. or faster
	Full HD Time-lapse movie (29.97p/25.00p) : UHS-I Speed Class 3 or faster
Focus method:	Dual pixel CMOS AF
AF method:	Face+Tracking, Smooth zone, Live 1-point AF Manual focusing (approx. 5x and 10x magnification available for focus check)
Movie servo AF:	Possible * With movie Servo AF, the subject tracking and AF speed are settable.
Movie digital IS:	Possible (Enable/Enhanced)
Focusing brightness range:	EV -2.5 - 18 (at room temperature, ISO 100, One-Shot AF, 29.97 fps)
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, center-weighted average metering)
Exposure control:	Auto exposure shooting (Program AE for movie shooting), manual exposure ± 3 stops in 1/3- or 1/2-stop increments
Exposure compensation:	
ISO speed (Recommended exposure index):	Scene Intelligent Auto, Creative Auto: Automatically set within ISO 100 - ISO 25600 P/Tv/Av/B: Automatically set within ISO 100 - ISO 25600, maximum limit settable within ISO 6400 - H2 (equivalent to ISO 102400). M: ISO Auto (automatically set within ISO 100 - ISO 25600), Manual setting within ISO 100 - ISO 25600 (in 1/3- or whole-stop increments), expandable to H (equivalent to ISO 32000/40000), H1 (equivalent to ISO 51200), and H2 (equivalent to ISO 102400) * With highlight tone priority set, the minimum limit will be ISO 200. * The settable range is different for time-lapse movie shooting.

ISO speed settings:	For movie shooting, you can set the ISO speed range, maximum limit for ISO Auto, and maximum limit for time-lapse movie shooting with ISO Auto
Sound recording:	Built-in stereo microphones, external stereo microphone jack provided Sound-recording level adjustable, wind filter provided, attenuator provided
Grid display:	3 types
HDR movie shooting:	Automatically set in SCN modes
Time-lapse movie:	Movie recording quality (4K, Full HD), Shooting interval (hr., min., sec.), Number of shots, Auto exposure (Fixed 1st frame, Each frame), LCD auto off, and Beep at the time of shooting are settable.
Video snapshot:	Provided (2 sec., 4 sec., 8 sec.)
Remote control shooting:	Provided
Still photo shooting:	Not possible during movie shooting

• LCD Monitor

Type:	TFT color, liquid-crystal monitor
Monitor size and dots:	Wide 3.0-in. (3:2) with approx. 1.04 million dots
Brightness adjustment:	Manual (7 levels)
Electronic level:	Provided
Interface languages:	25
Touch screen:	Capacitive sensing
Shooting mode guide:	Display on/off settable
Feature guide:	Display on/off settable
Help display:	Provided

* Text size settable for Help screen

• Playback

Image display format:	Single-image display (without shooting information), Single-image display (with basic information), Single-image display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction, GPS information), Index display (4/9/36/100 images)
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Highlight alert:	Overexposed highlights blink
AF point display:	Provided (may not be displayed depending on shooting conditions)
Grid display:	3 types
Magnified view:	Approx. 1.5x-10x, initial magnification and position settable
Image search:	Search conditions settable (by rating, date, folder, protected, file type)
Image browsing method:	1 image, 10 images, Specified number, Date, Folder, Movies, Stills, Protect, Rating
Image rotation:	Provided
Image protection:	Provided
Rating:	Provided
Movie playback:	Possible (on LCD monitor or with HDMI)
Start/end movie scene editing:	Provided
Slide show:	All images or images matching the search conditions are played back automatically.

• Post-Processing of Images

In-camera RAW image processing:	Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Lens aberration correction (Peripheral illumination correction, Distortion correction, Chromatic aberration correction, Diffraction correction)
Resize:	Provided
Cropping:	Provided

• Print Ordering

DPOF:	Version 1.1 compliant
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• GPS Functions

Compatible satellites:	GPS satellites (USA), GLONASS satellites (Russia), Quasi-Zenith Satellite System (QZSS) MICHIBIKI (Japan)
GPS signal reception modes:	Mode 1, Mode 2

Specifications

Geotag information appended to image:	Latitude, Longitude, Elevation, Coordinated Universal Time (UTC), Satellite signal acquisition status
Position update interval:	1 sec., 5 sec., 10 sec., 15 sec., 30 sec., 1 min., 2 min., 5 min.
Time setting:	GPS time data set to camera
Log data:	One file per day, NMEA format * Change in time zone creates another file. * The log data saved in internal memory can be transferred to a card or downloaded to a computer as a log file.
Log data deletion:	Possible

• Customization Features

Custom Functions:	28 functions
Custom shooting modes:	Register under C1/C2 mode
My Menu:	Up to 5 screens can be registered
Copyright information:	Text entry and appending possible

• Interface

DIGITAL terminal:	Hi-Speed USB equivalent Computer communication, Connect Station CS100 connection
HDMI mini OUT terminal:	Type C (Auto switching of resolution), CEC-compatible
External microphone IN terminal:	3.5 mm diameter stereo mini-jack Directional Stereo Microphone DM-E1 or commercially-available external microphone connectable
Remote control terminal:	For N3-type remote control units
Wireless remote control:	Compatible with Remote Controller RC-6 and Wireless Remote Control BR-E1 (via Bluetooth)
Eye-Fi card:	Supported

• Power

Battery:	Battery Pack LP-E6N/LP-E6, quantity 1 * AC power usable with household power outlet accessories.
Battery information:	Power source, Battery level, Shutter count, Recharge performance, Battery registration possible
Number of possible shots:	With viewfinder shooting: Approx. 1200 shots at room temperature (23°C/73°F), approx. 1100 shots at low temperatures (0°C/32°F) With Live View shooting: Approx. 380 shots at room temperature (23°C/73°F), approx. 340 shots at low temperatures (0°C/32°F) * With a fully-charged Battery Pack LP-E6N.
Movie shooting time:	Total approx. 2 hr. 40 min. at room temperature (23°C/73°F) Total approx. 2 hr. 20 min. at low temperatures (0°C/32°F) * With a fully-charged Battery Pack LP-E6N, Movie Servo AF disabled, and Full HD 29.97p/25.00p/23.98p Standard (IPB) set.

• Dimensions and Weight

Dimensions (W x H x D):	Approx. 144.0 x 110.5 x 74.8 mm / 5.67 x 4.35 x 2.94 in.
Weight:	Approx. 765 g / 26.98 oz. (including battery pack and card)/Approx. 685 g / 24.16 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.