LEGRIA HF G70
BRING OUT THE
FILMMAKER IN YOU

A 1/2.3-Type CMOS sensor 4K camcorder with 20x optical zoom, Advanced Hybrid AF and 5-axis stabilisation, plus USB-C output for UVC Livestreaming[1].

- The Canon 4K sensor provides breathtaking imagery

- Features a powerful 20x 4K Zoom Lens

- Take creative control with scene mode features

- Fast precise focusing with face detection

- MP4 Recording

- HDMI Output, Custom picture menu and Audio scene select

4K UHD

20× OPTICAL ZOOM

Over Sampling HD Processing

OPTICAL IMAGE STABILIZER DYNAMIC

Touch Screen

3.5mm external **Microphone**

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[1]Audio output through USB is not supported

TECHNICAL SPECIFICATIONS

LEGRIA HF G70

CAMERA

IMAGE SENSOR

Sensor	1/2.3-type CMOS
Filter	RGB Primary Colour Filter
Total pixels	Approx. 21.14MP
Effective pixels	Approx. 8.29 MP (3840 x 2160)
Subject illumination range	Approx. 0.3 lx to 100,000 lx
Minimum illumination (PAL)	P (Program AE) Mode: Approx. 4.2 lx (shutter speed 1/25 sec with auto slow shutter On) Low Light Mode: Approx. 0.3 lx (shutter speed 1/2 sec.)

IMAGE PROCESSOR

Type	DIGIC DV 6
Colour Sampling	YCC 4:2:0 8bit

LENS

Zoom ratio	20 x optical
Focal length (35mm equivalent)	Approx. 29.3 - 601mm Standard IS/IS Off
Minimum focus distance	1 cm at wide end, 60 cm across entire zooming range
Aperture	f/1.8 - 2.8 (AV Priority and Manual Modes)
Aperture blades	8 blades
Filter diameter	58mm
Image stabilization system	Optical system (lens shift) + electronic stabilization Dynamic, Standard, Powered IS, Off
ND filter	Built-in gradation filter (Auto or Off)
Zoom control	Zoom rockers on body and handle; Selectable manual zoom/focus ring on lens; Selectable High Speed and Soft Zoom modes available.
Zoom speed	Variable (body rocker only) or Constant speed (body and handle rocker; Fast/Normal/Slow, 16 speed level settings in each)
Iris control	Touchscreen, Auto
Digital zoom/Teleconverter	20x digital zoom (400x with optical zoom) and 40x digital zoom (800x with optical zoom) are available. Digital zoom not available in AUTO mode. 2x Digital Teleconverter

FOCUS

Focus System	Hybrid AF (High Speed/Medium speed). Uses combination of TTL-video signal detection system and external phase difference metering system. Normal AF. TTL, Contrast based AF
Focus control	MANUAL: Lens ring and touchscreen point selection (Magnify and Peaking assist functions), Focus Preset. AUTOFOCUS: Touchscreen AF point selection, Face Detection and Tracking, Touch and Track, Face Only AF. (Instant AF, Medium AF, Normal AF)

RECORDING

Video storage media	SD/SDHC/SDXC card (2 card slots)
Recording time (64GB Card, approx.)	150Mbps: 55 mins / 35Mbps: 240 mins / 17Mbps: 495 mins
Recording file system	FAT32/exFAT
Internal recording format (PAL)	MP4: 3840 x 2160 / 25.00P(150 Mbps) 1920 x 1080 / 50.00P, 25.00P (35, 17 Mbps)
External output (PAL)	HDMI output (When Shooting): UHD recording mode: 1920 x 1080 / 25.00P, 50.00P (for Slow&Fast), 50.00i (PsF mode); 1280 x 720 / 50.00P YCC 4:2:2 8-bit Full HD recording mode: 1920 x 1080 50.00P/25.00P/50i ; 1280 x720 50.00P YCC4:2:2 10-bit
Time Code	Rec Run / Free Run
Slow/Fast motion (PAL)	3840 x 2160 / 25.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920 x 1080 / 50.00P: x2, x4, x10, x20, x60, x120, x600, x1200 1920 x 1080 / 25.00P: x0.5
Pre Recording function	Yes. 3 seconds
Still photos	JPEG up to 3840x2160 (Still image resolution is dependent on the video resolution)
Photo storage media	SD Card

SHOOTING FUNCTIONS

Shooting Modes	AUTO mode M (Manual) mode P (program AE), Tv (shutter-priority AE), Av (aperture-priority AE), M (manual exposure), SCN (Portrait, Sports, Night Scene, Snow, Beach, Sunset, Low Light, Spotlight, Fireworks) IR mode
Custom Picture	C1: Normal (BT.709 Normal / BT.709) C2 to C6: USER02 to USER06
Colour Matrix	Neutral: accurate colour reproduction Video: Higher contrast colour reproduction
Infrared shooting mode	Not Supported

EXPOSURE

Exposure metering	Center-weighted average metering AUTO, P, Av, Tv, Portrait, Sports, Low Light and IR modes Segment evaluative metering Night Scene, Snow, Beach, Sunset, Spotlight modes No metering in Fireworks mode: Exposure constant
Exposure compensation	Highlight AE, Normal, Exposure lock, Auto backlight compensation.
Exposure Lock	Yes.
Auto Gain Control setting	Auto / Manual
Auto Gain Control limit	0 - 23dB (1dB increments)

SHUTTER SPEED

Control modes	Auto, P, Tv, Manual
Shutter speed	1/6 - 1/2000 sec (1/2 - 1/500 sec in Low Light mode)
Slow Shutter (SLS)	50.00P: Auto slow shutter On: 1/25 to 1/500 sec. Auto slow shutter Off: 1/50 to 1/500 sec. 25.00P: Auto slow shutter On: 1/12.5* to 1/500 sec. (*Display is 1/12) Auto slow shutter Off: 1/25 to 1/500 sec.
Clear Scan	No

WHITE BALANCE

Auto	Yes
Preset	Daylight (Approx. 5,600K), Tungsten (Approx. 3,200K)
Manual setting	Colour Temperature range: 2,000–15,000K Default value for Set 1 and Set 2: 5,600K
Look settings	Standard (Adjustment: Sharpness, Contrast, Colour Depth)

AUDIO

Recording	MPEG-2 AAC-LC (16-bit 2ch) / LPCM (16-bit 4ch)
Audio control	Manual/Auto Independent 2ch Line/Mic/Mic+48V input; Independent level control per channel (-∞ to +18 dB); Independent audio limiters (2 ch); Input mic trimming
Reference tone	1KHz, -12dB / -18dB / -20dB / Off
Microphone attenuation	On/Off (20dB)
Microphone level meter	Yes

SYSTEM

MONITORING PANEL

Type	Capacitive LCD touch panel
Size	3.5-inch (8.8 cm) on the diagonal, Approx. 2,760,000 dots (1280 x RGB x 720)
Waveform Monitor	No
Focus Assist	Peaking / Magnify
Peaking	Selectable Peaking Colour: Red / Blue / Yellow
Zebra	70% or 100% reference level
Markers	Grid (white/grey), Level (white/grey), 4:3 (white/grey)

VIEWFINDER

Size	0.36-inch (0.92 cm on the diagonal), Approx. 1,770,000 dots (1024 x RGB x 576)
Correction lens	+2.0 to -5.5 dioptre

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TECHNICAL SPECIFICATIONS

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INPUTS/OUTPUTS

Audio input	3.5mm microphone input jack (Supply Voltage 2.4V DC) Built-in Mic
Headphone output	3.5mm stereo mini jack
HDMI output	HDMI™ mini connector
USB	Type-C Hi-Speed USB (USB 2.0) equivalent. Point-to-point class and UVC supported.
DC input	USB-C
Remote Control Terminal	2.5mm mini jack

WI-FI & GPS SPECIFICATIONS

Wi-Fi	No
GPS Information (Optional Accessory)	Location (Latitude/Longitude/Altitude), Coordinated Universal Time (UTC), Satellite reception. (requires the optional GPS Receiver GP-E2)

MISCELLANEOUS

Colour Bars (PAL)	Yes. SMPTE, ARIB or EBU, with 1KHz Tone
Accessory shoe	Yes (cold shoe)
Assignable buttons	5 assignable Buttons
Custom dial	Iris/Shutter/Gain, AGC Limit, Exposure Compensation, Off

ACCESSORIES

Supplied	Lens hood with barrier, Battery Pack BP-820, USB Power Adapter PD-E1, AC Cable
Optional (Includes items not currently on sale)	Canon Battery Pack BP-820/BP-828, Canon Battery Charger CG-800E/CG-800, Canon HDMI cable HTC-100/HTC-100S, Canon Tele Converter TL-H58, Canon Wide Attachment WA-H58, Canon Shoulder Strap SS-600/SS-650, Wrist Strap WS-20, Canon PROTECT Filter 58mm, Canon ND4-L Filter 58mm, Canon ND8-L Filter 58mm, Canon GPS Receiver GP-E2, Canon Remote Controller RC-V100, Canon Battery Video Light VL-10Li/VL-10LiII, Canon Battery Pack BP-900 series (for VL-10Li/VL-10LiII), Canon Compact Power Adapter CA-910/920/930 (for charging BP-900 series), Canon Interface Cable IFC-300PCU/S / IFC-400PCU

BATTERY

Battery Pack	Canon Battery Pack BP-820 (supplied), BP-828 (optional)
Power Consumption (recording)	UHD: MP4, 150Mbps 25.00P : Approx. 4.5W Full HD: MP4, 35Mbps 50.00P : Approx. 4.6W
Continuous Recording Time (approx.)	UHD MP4: 150Mbps/25.00p: Max. 165 mins (BP-820), typical 95 mins / Max. 240 Mins, typical 140 mins (Optional BP-828)

SIZE AND WEIGHT

Dimensions	Approx. 109 x 84 x 182 mm
Weight (camera only)	Approx 740g
Operating temperature range	0°C to +40°C, 85% relative humidity

Disclaimers
All specifications are subject to change without notice
Specification given for PAL Version

What's in the box?

- LEGRIA HF G70 EU BODY
- Lens Cap
- Lens hood with lens barrier
- USB Power Adapter PD-E1
- AC Cable
- BP-820 Battery Pack
- Printed Matter Unit
- Packaging

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