



Clifton Cameras Product Specification

Leica Q3 Digital Camera

Designation Leica Q3

Camera type Digital 35mm compact camera

Type No. 6506

Order No. 19080 EU/US/CN, 19081 JP, 19082 ROW

Buffer memory 8GB

Capacity, depending on frame rate and picture format, estimated quantity (number of possible images in the buffer memory)

Storage medium UHS-II (recommended), UHS-I, SD/SDHC/SDXC memory card

Material Full metal housing: magnesium die-cast, leather covering, protection type IP52

Operating conditions 0°C to +40°C

Interfaces ISO accessory shoe with additional control contacts for Leica flash units, HDMI jack TypeD, USB3.1 Gen2 TypeC up to 10Gbps

Tripod thread A 1/4 DIN 4503 (1/4") with stainless steel in the base

Weight Approx. 743g/658g (with/without battery)

Sensor

Sensor size CMOS sensor, 62.39MP/60.3MP (total/effective)

Processor Leica Maestro series (Maestro IV)

Filter RGB colour filter, UV/IR filter, no low-pass filter

File formats Photo: DNG™ (raw data), DNG + JPG, JPG (DCF 2.0, Exif 2.31)

Max Control Speed: 120°/s

Video:

MP4 h.265 AAC 48kHz/16bit, h.264 AAC 48kHz/16bit

MOV h.265 LPCM 28kHz/24bit, h.264 LPCM 28kHz/24bit, ProRes LPCM 28kHz/24bi

Image resolution

DNG™ 9520x6336 pixels (60.3MP), 7404x4928 pixels (36.5MP), 5288x3518 pixels (18.6MP)

JPG 9520x6336 pixels (60.3MP), 7392x4928 pixels (36.4MP), 5280x3512 pixels (18.5MP)

File size DNG™: approx. 70MB, depending on resolution and image content

JPG: depending on resolution and image content

Video: max. length: 29min

Colour depth DNG™: 14bit, JPG: 8bit

Colour Space Photo: sRGB

Video Resolution C8K (17:9) Resolution 8192x4320, 8K (16:9) Resolution 7680x4320, C4K (17:9) Resolution 4096x2160, 4K (16:9) Resolution 3840x2160, Full HD (16:9) Resolution 1920x1080

Video frame rate:

MOV C8K

MOV C8K (recording to SD)

29.97fps C8K 4:2:0 / 10bit h.265 L-GOP 300Mbps

25.00fps C8K 4:2:0 / 10bit h.265 L-GOP 300Mbps

24.00fps C8K 4:2:0 / 10bit h.265 L-GOP 300Mbps

23.98fps C8K 4:2:0 / 10bit h.265 L-GOP 300Mbps

MOV C8K (HDMI output without HLG/L-Log and without recording to SD)

29.97fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

25.00fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

24.00fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

23.98fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

MOV C8K (HDMI output with HLG/L-Log or during recording to SD)

29.97fps C4K 4:2:2/10bit h.265 L-GOP 300Mbps

25.00fps C4K 4:2:2/10bit h.265 L-GOP 300Mbps

24.00fps C4K 4:2:2/10bit h.265 L-GOP 300Mbps

23.98fps C4K 4:2:2/10bit h.265 L-GOP 300Mbps

MOV 8K

MOV 8K (recording to SD)

29.97fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

25.00fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

24.00fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

23.98fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

MOV 8K (HDMI output without HLG/L-Log and without recording to SD)

29.97fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

25.00fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

24.00fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

23.98fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

MOV 8K (HDMI output with HLG/L-Log or during recording to SD)

29.97fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

25.00fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

24.00fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

23.98fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

MOV C4K

59.94fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 600Mbps

50.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 600Mbps

48.00fps 4:2:2/10bit (SD) h.264 ALL-I 600Mbps

24.00fps 4:2:2 / 10bit (HDMI)

47.95fps 4:2:2/10bit (SD) h.264 ALL-I 600Mbps

23.98fps 4:2:2 / 10bit (HDMI)

29.97fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

25.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps



24.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

23.98fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

MOV 4K

59.94fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 600Mbps

50.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 600Mbps

48.00fps 4:2:2/10bit (SD) h.264 ALL-I 600Mbps

24.00fps 4:2:2 / 10bit (HDMI)

47.95fps 4:2:2/10bit (SD) h.264 ALL-I 600Mbps

23.98fps 4:2:2 / 10bit (HDMI)

29.97fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

25.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

24.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

23.98fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

MOV FHD

119.88fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

100.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 400Mbps

59.94fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 200Mbps

50.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 200Mbps

48.00fps 4:2:2/10bit (SD) h.264 ALL-I 200Mbps

24.00fps 4:2:2 / 10bit (HDMI)

47.95fps 4:2:2/10bit (SD) h.264 ALL-I 200Mbps

23.98fps 4:2:2 / 10bit (HDMI)

29.97fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 200Mbps

25.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 200Mbps

24.00fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 200Mbps

23.98fps 4:2:2 / 10bit (SD & HDMI) h.264 ALL-I 200Mbps

MOV FHD Slow Motion

Sensor: 119.88fps 4:2:0 / 10bit (SD & HDMI) h.265 L-GOP 100Mbps

Recording/Playback: 29.97fps

Sensor: 100.00fps 4:2:0 / 10bit (SD & HDMI) h.265 L-GOP 100Mbps

Recording/Playback: 25.00fps

MOV FHD ProRes

59.94fps 422HQ ProRes 454Mbps

50.00fps 422HQ ProRes 378Mbps

29.97fps 422HQ ProRes 227Mbps

25.00fps 422HQ ProRes 189Mbps

24.00fps 422HQ ProRes 182Mbps

23.98fps 422HQ ProRes 181Mbps

MP4 8K

MP4 8K (recording to SD)

29.97fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

25.00fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

23.98fps 8K 4:2:0/10bit h.265 L-GOP 300Mbps

MP4 8K (HDMI output without recording to SD)

29.97fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

25.00fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

23.98fps 8K 4:2:0/8bit h.265 L-GOP 300Mbps

MP4 8K (HDMI output during recording to SD)

29.97fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

25.00fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

23.98fps 4K 4:2:2/10bit h.265 L-GOP 300Mbps

MP4 4K

59.94fps 4:2:0 / 10bit (SD & HDMI) h.265 L-GOP 100Mbps

50.00fps 4:2:0 / 10bit (SD & HDMI) h.265 L-GOP 100Mbps

29.97fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 100Mbps

25.00fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 100Mbps

23.98fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 100Mbps

MP4 FHD

59.94fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 28Mbps

50.00fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 28Mbps

29.97fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 20Mbps

25.00fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 20Mbps

23.98fps 4:2:0 / 8bit (SD & HDMI) h.264 L-GOP 24MbpsMOV h.265 LPCM 28kHz/24bit, h.264 LPCM 28kHz/24bit, ProRes LPCM 28kHz/24bit

Lens

Designation Leica Summilux 28 f/1.7 ASPH., 11 lenses in 9 segments, 3 aspherical lens areas

Lens filter thread E49

Digital zoom Optionally approx. 1.25x (equivalent to 35mm), approx. 1.8x (equivalent to 50mm), approx. 2.7x (equivalent to 75mm), or

approx. 3.2x (equivalent to 90mm)

Image stabilization Visual compensation system for photos and video recordings

Aperture range F1.7 to F16 in 1/3EV increments

Viewfinder/LCD panel

Viewfinder (EVF) Resolution: 5,760,000dots, 120fps, magnification: 0.79x at aspect ratio: 4:3 / 0.76x at aspect ratio: 3:2, frame coverage:

100%, exit pupil position: 20.75mm, setting range -4/+2dpt, with eye sensor for automatic switchover between viewfinder

and LCD panel, time delay 0.005s

LCD panel 3" TFT LCD, approx. 1,843,200dots, 384ppi, aspect ratio 3:2, touch panel

Shutter

Shutter type Mechanical central shutter or optional electronic shutter

Shutter speeds Mech. shutter: 120s to 1/2000s



Electro. shutter function: 1s to 1/16000s

Flash Synchronization: up to 1/2000s

Shutter button Two-stage

(1st stage: Activation of the camera electronics including autofocus and exposure metering, 2nd stage: Taking the picture)

Self-timer Delay time: 2s or 12s

Drive Mode Single, Interval Shooting, Exposure Bracketing

Continuous shooting:

– Continuous - 2 fps / 14 bit / AF, Continuous - 4 fps / 14 bit / AF:

Automatic settings (exposure settings in operating modes P/A/S, automatic white balance and autofocus) are implemented individually for each frame.

– Continuous - 7 fps / 14 bit, Continuous - 9 fps / 12 bit, Continuous - 15 fps / 12 bit:

Automatic settings (exposure settings in operating modes P/A/S, automatic white balance and autofocus) are implemented for the first frame, and are then applied for each subsequent frame in the same picture series.

Focusing

Focus range 30cm to ∞

With macro setting: from 17cm

Focus mode Automatic or manual

With manual setting: optional magnifying glass function (Auto Magnification) and edge marking (Focus Peaking) available as focus assist

Autofocus system Hybrid-AF due to combination of contrast metering, depth mapping, and phase comparison metering with AF metering

points in the sensor.

Autofocus modes Intelligent AF (autonomously selects AFs and AFc), AFs, AFc, AF setting can be saved, optional Touch AF

Autofocus metering methods Spot (can be shifted), Field (can be shifted and scaled), Multi-Field, Zone (can be shifted), Eye/Face/Body Detection,

Eye/Face/Body + Animal Detection, Tracking

Autofocus metering fields 315

Exposure

Exposure metering TTL (exposure metering through the lens), with working aperture

Metering principle Exposure metering is done by the image sensor for all exposure metering methods (in Live View mode and in rangefinder mode)

Exposure metering methods Spot, Center-Weighted, Highlight-Weighted, Multi-Field

Exposure modes Program AE mode (P)

Aperture-priority mode (A): manual aperture setting

Shutter-priority mode (S): manual shutter-speed setting

Manual (M): manual setting for shutter speed and aperture

Various fully automated variants (Scene Mode):

AUTO, Sport, Portrait, Landscape, Night Portrait, Snow/Beach, Fireworks, Candlelight, Sunset, Digiscoping

Exposure compensation ±3 EV in 1/3EV increments

Automatic bracketing 3 or 5 frames, graduations between shoots up to 3EV, in 1/3EV increments

additional optional exposure compensation: up to ±3EV

Autofocus modes Intelligent AF (autonomously selects AFs and AFc), AFs, AFc, AF setting can be saved, optional Touch AF

Autofocus metering methods Spot (can be shifted), Field (can be shifted and scaled), Multi-Field, Zone (can be shifted), Eye/Face/Body Detection,

Eye/Face/Body + Animal Detection, Tracking

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ISO Sensitivity range

Auto

Photo ISO ISO 100 to ISO 100000

Video ISO 100 to ISO 100000

Manual

Photo ISO 50 to ISO 100000

Video ISO 50 to ISO 100000

White balance Automatic (Auto), default (Daylight, Cloudy, Shadow, Tungsten, Flash), manual metering (Gray card), manual color temperature

settings (Color Temperature, 2000K to 11500K)

Flash

Flash unit connector Via the accessory shoe

Flash sync time :1/2000s, slower shutter speeds available, automatic changeover to TTL linear flash mode with HSS-compatible Leica system flash units if sync time is undercut

Flash exposure metering Using center-weighted TTL pre-flash metering with Leica flash units (SF26, SF40, SF58, SF60, SF64) or with system compatible flash units, remote controlled flash SFC1

Flash exposure compensation

SF40: ±2EV in 1/2EV increments

SF60: ±2EV in 1/3EV increments

Equipment

Microphone Stereo

Speaker Mono

WLAN WLAN function for connecting to the Leica FOTOS app. The Leica app is available from the Apple App Store™ or the Google Play Store™. Maximum output (e.i.r.p.): <14dBm, encryption method: WLAN-compatible WPA™/WPA2™/WPA3™

Bluetooth Bluetooth 5.0 LE: Channel 0–39 (2402–2480MHz), maximum output (e.i.r.p.): 10dBm

GPS Not available everywhere due to country-specific legislation; can be added via the Leica FOTOS app. Data is written to Exif header of the picture files.



Menu languages English, German, French, Italian, Spanish, Portuguese, Russian, Japanese, Traditional Chinese, Simplified Chinese, Korean

Power supply

Rechargeable battery (Leica BP-SCL6)

Lithium-ion rechargeable battery, rated voltage: 7.2V (DC); capacity: 2200mAh (min.), 350 shots (based on CIPA standard, with All Displays Auto Off = 5s); manufacturer: Panasonic Energy (Wuxi) Co. Ltd., Made in China

Charger

(Leica BC-SCL4)

Input: AC 100–240V, 50/60Hz, 0.25A, automatic switchover; output: DC 8.4V 0.85A; manufacturer: Salom Electric (Xiamen)

Co., Ltd., Made in China

Charging via USB During operation: 9V/3A (min. 27W)

With camera switched off: 5V/1500mA (2.5W or greater)

Wireless Charging Optimal performance with 9V chargers (10W Charging Pad required)

Rated values for input voltage/power 7.2V 2.3A (battery), 5V 3.0A / 9V 2.5A (USB)