



Clifton Cameras Product Specification

Leica M10-R Body Only – Black Paint

Specifications

Camera type : Compact digital view and rangefinder system camera

Lens attachment : Leica M bayonet with additional sensor for 6-bit coding

Lens system : Leica M lenses, Leica R lenses with an optional adapter (available accessory)

Sensor : CMOS chip, active area approx. 24x36 mm, without low-pass filter

Resolution : DNG:7864 x 5200 pixels (40.89 MP)

JPEG:7840 x 5184 pixels (40.64 MP), 5472 x 3648 pixels (20 MP), 2976 x 1984 pixels (6MP)

Data formats : DNG (raw data, 14 bit, compressed loss-free), JPEG (8 bit)

File size : DNG: 40-60 MB, JPEG (40MP) 10-20 MB: Depending on resolution and picture content

Buffer memory : 2GB / 10 pictures in series

Storage media : SD cards up to 2GB/SDHC cards up to 32GB/SDXC cards up to 2TB

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

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

Metering method : Light reflected by the blades of the 1 shutter curtain onto measuring cell

Metering range : At room temperature and normal humidity for ISO 200, at aperture 1.0 EV-2 to EV19 at aperture 32

Flashing of the left triangular LED in the viewfinder indicates values below the metering range

Sensitivity range : ISO 100 to ISO 50.000, adjustable in 1/3 ISO increments, choice of automatic control or manual setting

Exposure modes : Choice of automatic shutter speed control with manual aperture pre-selection (aperture priority A), or manual shutter speed and aperture setting

Flash unit attachment : Via accessory shoe with central and control contacts

Synchronization : Optionally triggered at the 1st or 2nd shutter curtain

Flash sync time : 1/180 s; slower shutter speeds can be used

If working below sync speed:Automatic changeover to TTL linear flash mode with HSS-compatible Leica system flash units



Flash exposure metering : Using center-weighted TTL pre-flash metering with Leica flash units (SF40, SF64, SF26), or flash units compatible with the system with SCA3502 M5 adapter

Flash measurement cell : 2 silicon photo diodes with collection lens on the camera base

Flash exposure compensation : $\pm 3\text{EV}$ in $1/3\text{EV}$ increments

Displays in flash mode (in viewfinder only) : Using flash symbol LED

Construction principle : Large, bright line frame viewfinder with automatic parallax compensation

Eye piece : Calibrated to -0.5 diopter; corrective lenses from -3 to +3 diopter available

Image field limiter : By activating two bright lines each: For 35 and 135mm, or for 28 and 90mm, or for 50 and 75mm; automatic switching when lens is attached

Parallax compensation : Horizontal and vertical difference between the viewfinder and the lens is automatically compensated according to the relevant distance setting, i.e. the viewfinder bright-line automatically aligns with the subject detail recorded by the lens

Matching viewfinder and actual image : At a range setting of 2m, the bright-line frame size corresponds exactly to the sensor size of approx. 23.9 x 35.8mm; at infinity setting, depending on the focal length, approx. 7.3% (28mm) to 18% (135mm) more is recorded by the sensor than indicated by the corresponding bright line frame and slightly less for shorter distance settings than 2m

Magnification (for all lenses) : 0.73x

Long-base rangefinder : Split or superimposed image range finder shown as a bright field in the center of the viewfinder image

Effective metering base : 50.6mm (mechanical measurement basis 69.31mm x viewfinder magnification 0.73x)

In the viewfinder : Four-digit digital display with exposure alerts above and below

On back : 3-inch color TFT LCD monitor with 16 million colors and 1,036,800 pixels, approx. 100% image field, glass cover of extremely hard, scratch-resistant Gorilla glass, color space: sRGB, for Live-View and review mode, displays

Shutter : Metal blade focal plane shutter with vertical movement

Shutter speeds : For aperture priority:(A) continuous from 16min to $1/4000\text{s}$, for manual adjustment: 8s to $1/4000\text{s}$ in half steps, from 8s to 16min in half steps, B: For long exposures up to maximum 16min (in conjunction with self-timer T function, i.e. 1st release = shutter opens, 2nd release = shutter closes), ($1/180\text{s}$): Fastest shutter speed for flash synchronization, HSS linear flash mode possible with all shutter speeds faster than $1/180\text{s}$ (with HSS-compatible Leica system flash units)

Picture series : Approx. 4.5 pictures/sec

Shutter release button : Two-stage, 1st step: Activation of the camera electronics including exposure metering and exposure lock (in aperture priority mode), 2nd step: Shutter release; standard thread for cable release integrated.

Self-timer : Delay optionally 2s (aperture priority and manual exposure setting) or 12s, set in menu, indicated by flashing LED on front of camera and corresponding display in monitor.

Turning the camera on/off : Using main switch on top of camera; optional automatic shutdown of camera electronics after approx. 2/5/10 minutes; reactivated by tapping the shutter release

Power supply : 1 Lithium-ion rechargeable battery, nominal voltage 7.4V, capacity 1100mAh; maximum charging current/voltage: DC 1000mA, 7.4V

Charger : Inputs : 100-240V AC, 50/60Hz, 300mA, automatic switching, or 12V DC, 1.3A



Output : DC 7.4V, 1000mA/max. 8.25V, 1100mA

GPS (only with Leica Visoflex viewfinder attached, available as an accessory) : Optional (not available everywhere due to country-specific legislation, i.e. enforced automatic shutdown in those countries), data are written to EXIF header in picture files.

Wi-Fi : Complies with IEEE 802.11b/g/n standard (standard Wi-Fi protocol), channel 1-11, encryption method: Wi-Fi-compatible WPA/WPA2 encryption, access method: Infrastructure mode

Material : All-metal die cast magnesium body, synthetic leather covering. Brass top panel and base, black chrome plated finish
Image field selector : Allows the bright-line pairs to be manually activated at any time (e.g. to compare detail)

Tripod thread : 1/4-inch DIN stainless steel in bottom

Operating conditions : 0 to 40-degree-C

Interfaces : ISO accessory shoe with additional contacts for Leica Visoflex viewfinder (available as an accessory)

Finish : Black paint

Dimensions (W x D x H) : Approx. 139 x 38.5 x 80 mm

Weight : Approx. 660g with battery