

**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** :  $\pm 3$ EV in 1/3EV 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 1/4000s, for manual adjustment: 8s to 1/4000s 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), (1/180s): Fastest shutter speed for flash synchronization, HSS linear flash mode possible with all shutter speeds faster than 1/180s (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 chrome(20002), Silver chrome(20003)

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

**Weight** : Approx. 660g with battery