

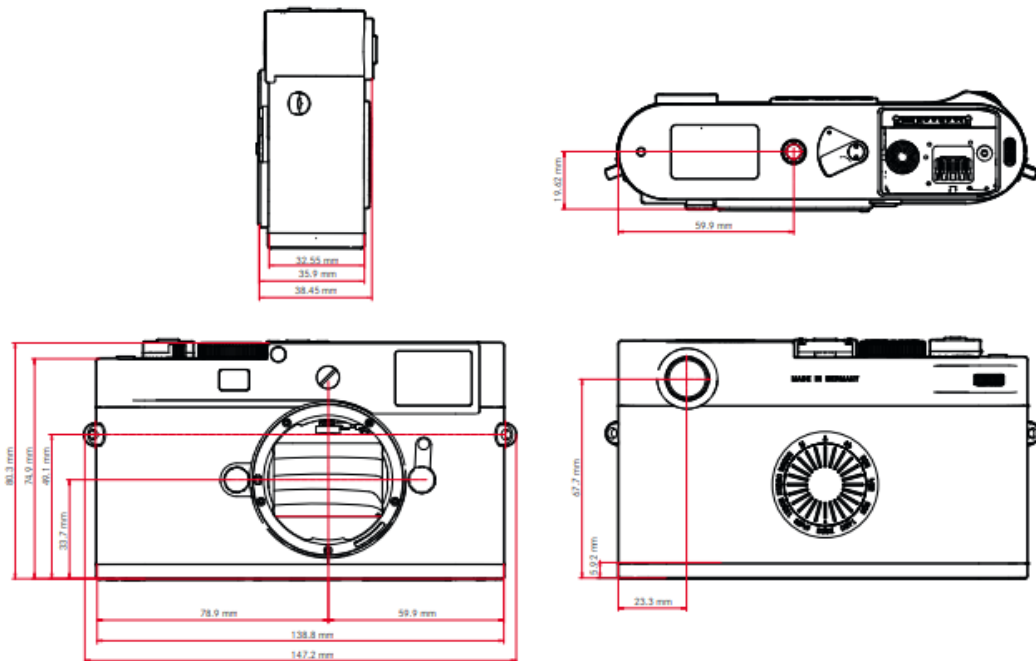
## Leica M11-D Black Paint Specification

### Leica M11-D

#### Specifications

<b>Designation:</b>	<b>Leica M11-D</b>
Camera type:	Digital system camera with rangefinder
Type No.:	2221
Order No.:	Black: 20 220 (EU/US/CN), 20 221 (JP), 20 222 (ROW)
Buffer memory:	3GB  DNG™: 15 shots  JPG: > 100 shots
Storage medium:	UHS-II (recommended), UHS-I, SD/SDHC/SDXC memory card (SDXC cards up to 2TB), internal memory: 256GB
Material:	Black: full-metal housing made of magnesium and aluminum, leatherette cover
Lens mount:	Leica M bayonet with additional sensor for 6-bit encoding
Operating conditions:	0°C to +40°C
Interfaces:	ISO accessory shoe with additional control contacts for Leica flash units and Leica Visoflex2 viewfinder (optional accessory), USB 3.1 Gen1 Type-C
Tripod thread:	A 1/4 DIN 4503 (1/4") with stainless steel in the base

Dimensions:



Weight: approx. 539g/457g (with/without battery)

**Sensor**

Sensor size: BSI CMOS sensor, pixel pitch: 3.76µm, 35mm: 9528x6328 pixels (60.3MP)

Processor: Leica Maestro series (Maestro III)

Filter: RGB color filter, UV/IR filter, no low-pass filter

File formats: DNG™ (raw data, loss-free compression), DNG + JPG, JPG (DCF, Exif 2.30)

Image resolution:

DNG™	-	L-DNG 60.3MP 9528x6328 pixels
		M-DNG 36.5MP 7416x4928 pixels
		S-DNG 18.4MP 5272x3498 pixels
JPG	-	L-JPG 60.1MP 9504x6320 pixels
		M-JPG 36.2MP 7392x4896 pixels
		S-JPG 18.2MP 5248x3472 pixels

The entire sensor surface will always be used irrespective of format and resolution.

Digital Zoom 1.3x and 1.8x available (always based on L-DNG or L-JPG)

File size:

DNG™	-	L-DNG approx. 70–120MB
		M-DNG approx. 40–70MB

S-DNG approx. 20–40MB

JPG - L-JPG approx. 15–30MB

M-JPG approx. 9–18MB

S-JPG approx. 5–9MB

JPG: depending on resolution and image content

Color depth: DNG™: 14bit, JPG: 8bit

Color space: sRGB

### Viewfinder

Viewfinder: Large, bright-line rangefinder with automatic parallax compensation, suitable for -0.5dpt; optional corrective lenses available: -3 to +3dpt

Display: Four-digit digital display with items show on the top and bottom, Image field limiter: two lit frames: 35mm + 135mm, 28mm + 90mm, 50mm + 75mm (automatic switchover when lens is attached)

Parallax compensation: The horizontal and vertical difference between viewfinder and lens is compensated automatically in line with the relevant focus setting. Congruence of viewfinder and actual image. The size of the bright-line frame matches the distance:

– at 2m: the exact sensor size of approx. 23.9x35.8mm

– at infinity: (depending on focal length) approx. 7.3% (28mm) to 18% (135mm)

– less than 2m: less than sensor size

Viewfinder magnification: 0.73x (all lenses)

Large-base rangefinder: Split or superimposed image rangefinder shown as a bright field at the center of the viewfinder image

### Shutter

Shutter type: Electronically controlled focal plane shutter and electronic shutter function

Shutter speeds: Mech. shutter: 60min to 1/4000s

Electro. shutter function: 60s to 1/16000s

Flash Synch: up to 1/180s

Optional noise reduction via additional “black picture” (can be disabled)

Shutter button: Two-stage (Step 1: activation of the camera electronics including exposure metering and exposure lock, Step 2: release)

Self-timer: Delay time: 2s or 12s

Drive Mode: Single

Continuous - Low Speed (3fps)



Continuous - High Speed (4.5fps)

Interval shooting

Exposure Bracketing

### **Focusing**

Focus range: 70cm to  $\infty$

Focus mode: Manual (focus assist functions Magnification and Focus Peaking available)

### **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, Multi-Field, Highlight-Weighted

Exposure modes: Aperture-priority mode (A): automatic shutter speed control with manual aperture preselection

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

Exposure compensation:  $\pm 3EV$  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  $\pm 3EV$

ISO sensitivity range: Auto ISO: ISO 64 (native) to ISO 50000, also available in flash mode

Manual: ISO64 to ISO50000

White balance: Automatic (Auto), Default (Daylight -5200K, Cloudy -6100K, Shadow -6600K, Tungsten -2950K, HMI-5700K, Fluorescent (warm) -3650K, Fluorescent (cool) -5800K, Flash -6600K), manual metering (Gray card), manual color temperature setting (Color Temperature, 2000K to 11,500K)

### **Flash**

Flash unit connector: Via the accessory shoe

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

Flash sync time:  $1/180s$ , slower shutter speeds available, automatic switchover 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:  $\pm 2EV$  in  $1/2EV$  increments

SF60:  $\pm 2EV$  in  $1/3EV$  increments



Other:  $\pm 3\text{EV}$  in  $1/3\text{EV}$  increments

Displays in flash mode: Flash icon: connection of an external flash unit (in the viewfinder only)

### Equipment

WLAN: The Leica FOTOS app is required to use the WLAN function. The Leica app is available from the Apple App Store™ or the Google Play Store™. 2.4 GHz/5GHz\* dual band IEEE802.11 a/b/g/n/ac Wave2 WLAN (standard WLAN protocol), encryption method: WLAN-kompatible WPA™/WPA2™, access method: infrastructure mode

Regional variant

EU/US/CN:

Wi-Fi 5GHz\* 11a/n/ac: Channel 149–165 (5745–5825MHz)

JP:

11a/n/ac: Channel 36–48 (5180–5240MHz)

ROW:

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Wi-Fi 2.4GHz EU/US/CN | JP | ROW:

11b/g/n: Channel 1–11 (2412–2462MHz)

Bluetooth: Bluetooth v4.2 BR/EDR/LE, BR/DR-channel 1–79, LE-channel 0–39 (2402–2480MHz)

GPS: Geotagging via Leica FOTOS app using Bluetooth

### Power supply

Rechargeable battery: (Leica BP-SCL7)

Li-Ion (Lithium-Polymer) rechargeable battery, rated voltage: 7.4V / capacity: 1800mAh, Charging voltage/current: DC 1000mAh, 7.4V, operating conditions: +10°C to +35°C (charging) / +0°C to +40°C (discharged), manufacturer: Fuji Electronics (Shenzhen) Co., Ltd. made in China

Approx. 700 shots (in accordance with CIPA Standard in rangefinder mode), up to approx. 1700 shots (Leica adapted shooting cycle)

Charger: (Leica BC-SCL7) Optional accessories

Input: USB-C DC 5V, 2A, output: DC 8.4V, 1A, operating conditions: +10°C to +35°C, manufacturer: Dee Van Enterprises Co., Ltd., made in China

Switching adapter: (Leica ACA-SCL7) Optional accessories

Input: AC 110V - 240V ~ 50/60Hz, 0.3A, output: DC 5V, 2A, operating conditions: +10°C to +35°C, manufacturer: Dee Van Enterprises Co., Ltd., made in China

USB power supply: When in standby mode or Off: USB charging function

When On: USB power supply and intermittent charging