Press information

LEICA M10 MONOCHROM:

black-and-white photography enters a new dimension of quality

Wetzlar, 17 January 2020. Leica Camera AG has taken the next step forward in its successful digital black-and-white photography concept and presents the new Leica M10 Monochrom. With a newly developed 40-megapixel black-and-white sensor, the next camera generation delivers exceptional pictures that achieve an entirely new level of quality in black-and-white photography.

The ultra-high resolution black-and-white sensor of the M10 Monochrom delivers images with natural sharpness and previously unrivalled resolution of details in all lighting conditions. At the same time, the new M10 Monochrom is the first black-and-white camera of the rangefinder system to offer an exceptionally broad sensitivity range of ISO 160 to ISO 100000. Images captured at all ISO settings impress with finely grained rendition of details and no disturbing artefacts. As is the case with all Leica M-Cameras, the new black-and-white sensor is ideally matched to all lenses of the Leica M portfolio and fully exploits their performance with regard to contrast, resolution and rendition of finest structures. Photographers can therefore rest assured that the exceptional quality of the black-and-white images they capture brings out the best of every subject.

The technical details and the handling concept of the M10 Monochrom are identical to those of the serial production M10-P, a particularly discreet version of the Leica M-Camera that concentrates entirely on the most essential camera functions. Its features include an almost inaudible shutter and the quietest shutter release of all M-Cameras ever built, which make it the ideal tool for capturing authentic photographs from the heart of life itself. The design of the M10 Monochrom is as unobtrusive and minimalist as the discreet way of working it

supports. The camera has no Leica red dot logo on the front and features only the discreetly engraved logotype ‘Leica M10 Monochrom’ on the top plate. The consistent omission of colour-filled engravings is a design element that additionally emphasises the black-and-white character of the camera.

The materials and finishing of the Leica M10 Monochrom correspond to the same high standards as those familiar from all other Leica M-Cameras. The camera is made almost completely by hand by experienced specialists in elaborate construction and assembly processes and is so robustly built that it can take even the toughest conditions in use in its stride. The new Leica M Monochrom therefore also stands for the exceptional quality and reliability that assure lifelong functionality and enduring value.

Technical Data	**LEICA M10 MONOCHROM**
Camera type:	Compact digital view and rangefinder system camera with a dedicated black-and-white image sensor.
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:	B/W CMOS chip, active area approx. 24x36 mm, without color and 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, compressed loss-free), JPEG
File size:	DNG™: 40-60 MB, JPEG (40MP) 10-20 MB: Depending on resolution and picture content
Buffer memory:	2GB / 10 pictures in series
White balance:	Automatic, manual, 8 presets, colour temperature input
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 160 to ISO 100.000, adjustable in 1/3 ISO increments from ISO 160, choice of automatic control or manual setting
Exposure modes:	Choice of automatic shutter speed control with manual aperture preselection - aperture priority A, or manual shutter speed and aperture setting
Flash exposure control	
Flash unit attachment:	Via accessory shoe with central and control contacts
Synchronisation:	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 centre-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:	+/-3EV in 1/3EV increments
Displays in flash mode (in viewfinder only):	Using flash symbol LED
Viewfinder	

Construction principle:	Large, bright line frame viewfinder with automatic parallax compensation
Eye piece:	Calibrated to -0.5 dpt.; 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:	The 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) 0.73 x
Long-base rangefinder:	Split or superimposed image range finder shown as a bright field in the centre of the viewfinder image
Effective metering base:	50.6mm (mechanical measurement basis 69.31mm x viewfinder magnification 0.73x)

Displays

In the viewfinder:	Four-digit digital display with exposure alerts above and below
On back:	3" colour TFT LCD monitor with 16 million colours and 1,036,800 pixels, approx. 100 % image field, glass cover of extremely hard, scratch-resistant GorillaR glass, colour space: sRGB, for Live-View and review mode, displays

Shutter and shutter release

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/s
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; Model No.: BP-SCL5; Manufacturer: PT. VARTA Microbattery, Made in Indonesia, Operating conditions (in camera): 0°C - + 40°C
Charger:	Inputs: 100-240V AC, 50/60Hz, 300mA, automatic switching, or 12V DC, 1.3A; Output: DC 7.4V, 1000mA/max. 8.25V, 1100mA; Model No.: BC-SCL5; Manufacturer: Guangdong PISEN Electronics Co., Ltd., Made in China, Operating conditions: 0°C - + 35°C
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 Wifi protocol), channel 1-11, encryption method: Wifi-compatible WPA™/WPA2™ encryption, access method: Infrastructure mode

Camera body

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:	A . (.") DIN stainless steel in bottom
Operating conditions:	0–40 °C
Interfaces:	ISO accessory shoe with additional contacts for Leica Visoflex viewfinder (available as an accessory)
Dimensions:	(width x depth x height) approx. 139 x 38.5 x 80mm
Weight:	approx. 660g (with battery)
Scope of Delivery:	Charger 100-240V with 2 mains cables (Euro, USA, varies in some export markets) and 1 car charging cable, lithium ion battery, carrying strap, body bayonet cover, cover for accessory shoe