LEICA M11

Firmware update

FIRMWARE

Camera model	Firmware version
Leica M11	1.3.0.0

_NEW: Perspective control

_EXTENDED: Additional exposure metering method Highlight-weighted

_EXTENDED: Additional storage options DNG on SD /JPG on IN

_IMPROVED: Bugfixes in the firmware

FIRMWARE UPDATES

Leica is continuously working on the further improvement and optimization of your camera. Since many camera functions are entirely controlled by software, some of these improvements and additions to the functional scope can be installed in retrospect. Leica offers firmware updates at irregular intervals, which you can download from our website.
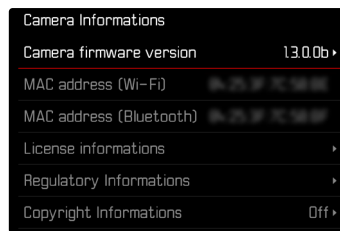
Leica will notify you of any new updates, once you have registered your camera. Users of Leica FOTOS will also be automatically notified about firmware updates for their Leica cameras.

There are two options for installing firmware updates:
– conveniently via the Leica FOTOS app
– directly via the camera menu

Find out which firmware version is currently installed

▶ Select Camera Informations in the main menu
  • The current firmware version is displayed next to the menu item Camera firmware version.

Camera Informations	
Camera firmware version	1.3.0.0b ▸
MAC address (Wi-Fi)	
MAC address (Bluetooth)	
License informations	▸
Regulatory Informations	▸
Copyright Informations	Off ▸

More information about registering, firmware updates and how to download them to your camera, as well as any amendments and additions to this manual can be found in the customer area of our website at:
club.leica-camera.com

EXECUTING A FIRMWARE UPDATE

Any interruption of a running firmware update may cause serious and irreparable damage to your equipment!

You will therefore have to take particular note of the following, when carrying out a firmware update:

- Do not switch off the camera!
- Do not remove the memory card!
- Do not remove the rechargeable battery!
- Do not remove the lens!

Notes

- A warning message will appear if the battery is insufficiently charged. Recharge the battery and then repeat the process described above.
- You will find additional device and country-specific registration marks and numbers in the Camera Informations submenu.

PREPARATION

- ▶ Fully charge and insert the rechargeable battery
- ▶ Any stored firmware files on the memory card must be removed
  - We recommend saving any images on the memory card and reformatting it before the update.
    (Caution: Loss of data! All data stored on the memory card will be lost during formatting.)
  - Make sure to back up any files saved to the internal memory as a precaution.
- ▶ Download the latest firmware version
- ▶ Save the download to the memory card
  - The firmware file must be stored in the main directory of the memory card (not in a sub-directory).
- ▶ Insert the memory card into the camera
- ▶ Switch the camera on

UPDATING THE CAMERA FIRMWARE

▶ Preparation
▶ Select Camera Informations in the main menu
▶ Select Camera firmware version
▶ Select Firmware update
  • A prompt with information about the camera is displayed.
▶ Check the version information
▶ Select Yes
  • The prompt Do you want to save profiles on SD card? appears.
▶ Select Yes / No
  • The update will start automatically.
  • The lower status LED will flash during this process.
  • Once the process has completed successfully, a relevant message will appear and the camera will restart.

Note
• Date & time, as well as the preferred language will have to be set up again after the restart. Relevant prompts will appear on screen.

PERSPECTIVE CONTROL

This assist function displays a frame showing the expected cropped section of the image after a correction of the perspective of vertical falling lines. Perspective Control helps to achieve a generally straighter vertical line and straight horizon, which ensures a natural image effect, specifically in architectural images.

The function "Perspective Control" calculates the image section and the required distortion correction based on the actual panning angles of the camera and the lens used. In effect, the camera orientation during recording (determined by internal camera sensors) is the decisive factor and not the lines visible in the image object. The function is therefore unlike automatic perspective control features used for post-editing, which are generally based on the image content.

The functionality depends on the picture format used (JPG or DNG). For JPG format images, the correction occurs directly in the camera and the corrected image is stored. For DNG format images, the relevant information is written to the meta data or the original image. Image correction is done later on using a program like Adobe Photoshop Lightroom® or Adobe Photoshop®*.
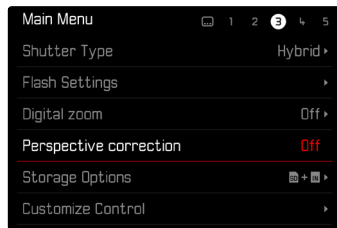
Factory setting: Off

Notes

- In case of large panning angles, the distortion correction needed for a complete perspective control would be too extreme. That is why this function is automatically skipped or only partially used where angles are too large. In that case, we recommend creating DNG format images and to effect the desired corrections in a post-editing step.
- The focal length of the camera lens must be known to use this function. It is automatically detected when M lenses with 6-bit encoding are used. The lens type must be entered manually when other lenses are used (Lens Detection).
- A histogram will not be available for technical reasons, while the function Perspective Control is active.
- The functions Digital Zoom and Perspective Control cannot be activated at the same time. Selecting one of these functions will automatically disable the other.

* See p. 8 for more information.

This function can only be used in Live View mode.

▶ You may have to activate Live View
▶ Select Perspective Control in the main menu
▶ Select On

Main Menu	⌨ 1 2 ❸ 4 5
Shutter Type	Hybrid ▸
Flash Settings	▸
Digital zoom	Off ▸
Perspective correction	Off
Storage Options	🖹 + 🖻 ▸
Customize Control	▸

ACTIVE PERSPECTIVE CONTROL

DETECTED PERSPECTIVE IN LIVE VIEW MODE

CORRECTED PERSPECTIVE IN REVIEW MODE

JPG FORMAT IMAGES

For JPG format images, the correction occurs directly in the camera and the only corrected image is stored. Any image content outside the frame will be lost.

DNG FORMAT IMAGES

In DNG format, the entire sensor image is stored unchanged. The data calculated by Perspective Control is written to the meta data of the image. Image correction is done later, using appropriate software like Adobe Photoshop Lightroom® or Adobe Photoshop®*. A corrected preview version of the image (thumbnail) is displayed in Review mode. The same applies for automatic review directly after the image is taken.

However, when opening the file in Adobe Photoshop Lightroom® or Adobe Photoshop®, the original recording will be displayed. Depending on the default settings of the software, the image can also be directly displayed with the corrections from the auxiliary frame.

PERSPECTIVE CONTROL IN ADOBE LIGHTROOM® AND ADOBE PHOTOSHOP®

Perspective Control can be done as part of the post-editing process for DNG format images using e.g. Adobe Photoshop Lightroom® or Adobe Photoshop®. Read the Adobe Online Help for more detailed information about the topic.

ADOBE LIGHTROOM®:

https://helpx.adobe.com/en/lightroom-classic/help/guided-up-right-perspective-correction.html

ADOBE PHOTOSHOP®:

https://helpx.adobe.com/en/photoshop/using/perspective-warp.html

CORRECTION AND DISPLAY OF AUXILIARY LINES

Select the function "With auxiliary lines" under "Geometry" > "Upright" to apply the correction defaults of the camera and display the auxiliary lines.

Correction will automatically applied if the RAW default setting "Camera Settings" is selected.

Correction can be disabled under "Upright" at any time.

https://helpx.adobe.com/en/photoshop/kb/acr-raw-defaults.html

▶ Select "Camera Settings" as the RAW default setting

EXPOSURE METERING METHOD "HIGHLIGHT-WEIGHTED"

EXPOSURE METERING METHODS

The following exposure metering methods are selectable.
Factory setting: Multi-Field

⬛ Spot

⬛ Center-weighted

⬛ Highlight-Weighted

⬛ Multi-field

SPOT

Spot metering only captures and analyzes a small area in the middle of the screen image, which is shown in a circle. The metering field may shift.

CENTER-WEIGHTED

This method considers the entire image field. The subject elements captured in the center will, however, impact on the calculation of the exposure value more so than areas around the edges.

HIGHLIGHT-WEIGHTED

This method considers the entire image field. The exposure value will, however, be adjusted to very bright subject elements. That prevents the overexposure of bright subject elements without having to measure them individually. This metering method is particularly useful for objects that are significantly more brightly lit than the rest of the picture frame (e.g. people in a spotlight), or that reflect the light significantly (e.g. white clothing).

Multi-field	Highlight-weighted
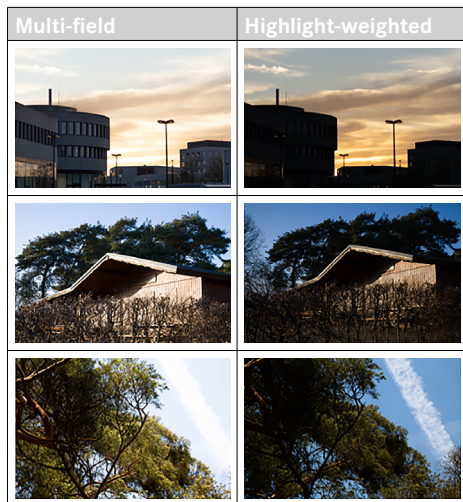
MULTI-FIELD

This metering method is based on the detection of multiple values. These values are used in an algorithm to calculate an exposure value appropriate for a good rendering of the assumed main subject.

▶ Select Exposure Metering in the main menu
▶ Select the desired metering method
  (Spot, Center-weighted, Highlight-weighted, Multi-field)
  • The selected metering method is displayed in the header of the screen image in Live View mode; it appears on the status screen if the viewfinder is used.

Spot metering allows a shifting of the metering field:

▶ Tap the LCD panel in the desired position

or

▶ Press the directional pad left or right as needed

All exposure metering methods are available for use, irrespective of whether Live View is currently active. Exposure metering will in any case occur via the shooting sensor. The displays used for assessing the correct exposure differ in rangefinder and Live View mode.
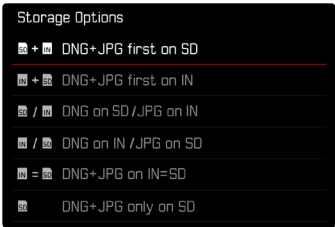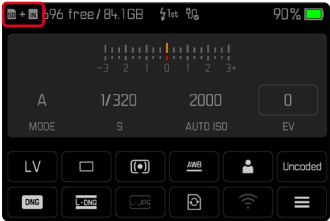
DATA MANAGEMENT

STORAGE OPTIONS

Leica M11 comes with a 64 GB internal memory. In combination with an inserted memory card, there will be various options for storing data.

Factory setting: DNG+JPG first on SD

▶ Select Storage Options in the main menu

▶ Select the desired setting

Storage Options

- + DNG+JPG first on SD
- + DNG+JPG first on IN
- / DNG on SD / JPG on IN
- / DNG on IN / JPG on SD
- = DNG+JPG on IN=SD
- DNG+JPG only on SD

An icon in the status screen denotes the selected setting.

Display	Storage options
SD + IN	**DNG+JPG first on SD** Files will initially be saved to the inserted memory card until it runs out of space. After that, files will be saved to the internal memory.
IN + SD	**DNG+JPG first on IN** Files will initially be saved to the internal memory until it runs out of space. Inserted After that, files will be saved to the memory card.
SD / IN	**DNG on SD /JPG on IN** The recordings are stored by format. JPG files are stored in the internal memory, and DNG files on the memory card.
IN / SD	**DNG on IN /JPG on SD** The recordings are stored by format. DNG files are stored in the internal memory, and JPG files on the memory card.
IN = SD	**DNG+JPG on IN=SD** All files are saved to both storage locations. That will ensure that there will always be a complete backup of all recordings.
SD	**DNG+JPG only on SD** All files are saved to the inserted memory card. The internal memory remains unused.
IN	**No storage option.** This is displayed if no SD card is inserted. Files will be saved to the internal memory (irrespective of the selected setting).