LEICA Q2

Firmware update

FIRMWARE

Camera model	Firmware version
Leica Q2	4.0

_NEW: Exposure metering method Highlight-Weighted

_NEW: iDR (Intelligent Dynamic Range) for the optimization of darker areas

_NEW: Firmware update via Leica FOTOS

_IMPROVED: In Playback mode, sorting will occur strictly by recording date

_IMPROVED: Bluetooth connection was optimized

_IMPROVED: Geotagging (via Leica FOTOS)

_EXTENDED: Image properties

_EXTENDED: Video formats

_EXTENDED: Data management

Download the full scope instruction manual here:
https://en.leica-camera.com/Service-Support/Support/Downloads

Please register via the following link if you would like to receive a printed copy of the full scope instruction manual:
www.order-instructions.leica-camera.com

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.

There are two options for installing firmware updates.

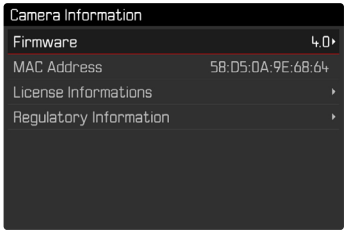
– conveniently via the Leica FOTOS app

– directly via the camera menu

Find out which firmware version is currently installed

▸ Select Camera Information in the main menu

• The current firmware versions are displayed.



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 Information 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.)
- 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 Information in the main menu
- Select Firmware
- Select Start Update
  - A prompt with information about the camera is displayed.
- Check the version information
- Select Yes
  - The prompt 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 on-screen message and prompt to restart the device will appear on screen.
- Switch the camera off and on again

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.

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

This metering method is concentrated exclusively on a small area in the center of the image. The metering fields are joined together when the exposure metering method Spot is combined with the AF metering methods Spot, Field and Zone. Exposure metering will then occur at the point specified by the AF metering field, even if it is moved.

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 line of the screen image.

Spot metering allows a shifting of the metering field:

- ▸ Press the directional pad left or right as needed

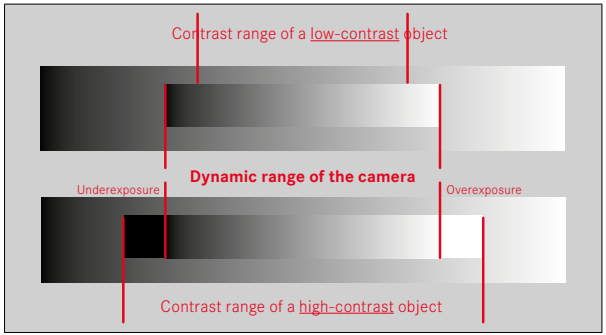
Notes

- The exposure information (ISO value, aperture, shutter speed and light balance with exposure compensation scale) will help to determine the settings required for correct exposure.

AUTOMATIC OPTIMIZATION OF DARKER AREAS

DYNAMIC RANGE

The contrast range of an object comprises all levels of brightness from the brightest to the darkest point in the image. All levels of brightness can be captured by the sensor, provided the contrast range of the object is lower than the dynamic range of the camera. In case of significant differences of brightness in the object (e.g. shootings of interior spaces with bright windows in the background, shootings with subject elements in shadow or directly lit by the sun, landscapes with dark areas and a very bright sky), the camera with its limited dynamic range will not be able to map the entire contrast range of the object. Information in 'edge areas' will be lost (under and overexposure).



iDR FUNCTION

The iDR (Intelligent Dynamic Range) function allows an optimization of the darker areas. Object details become much clearer. This function will only affect recordings in JPG format.

Without iDR	With iDR
	

You can specify beforehand if and to what extent you want to optimize darker areas (High, Standard, Low, Off). In the Auto setting, the camera will automatically select the right setting depending on the contrast range of the object.

In addition to that setting, the effect also depends on the exposure settings. The function will have the strongest effect in combination with low ISO values and fast shutter speeds. The effect is less pronounced with higher ISO values and/or slower shutter speeds.

Factory setting: Auto

- Select JPG Settings in the main menu
- Select iDR
- Select the desired setting (Auto, High, Standard, Low, Off)

Note

- The optimization of darker areas will slightly reduce differentiation in very bright areas.

GEOTAGGING

RECORDING THE SHOOTING LOCATION WITH GPS (ONLY IN CONNECTION WITH THE LEICA FOTOS APP)

The GPS (global positioning system) allows the pinpointing of a receiver anywhere in the world. The GPS function is activated automatically when a connection to the Leica FOTOS app is active and if the GPS function is active on the mobile device. The camera will then continuously receive the current GPS data (latitude and longitude, elevation above sea level) and writes this information into the Exif data of the images.

- ▸ Activate the GPS function on the mobile device
- ▸ Activate Leica FOTOS and connect to the camera

The current Geotagging status is displayed in the header line.

	The location information is current (most recent geolocation max. 15 mins prior).
	The location information is not necessarily current anymore (most recent geolocation max. 12 h prior).
	The available location information is outdated (most recent geolocation more than 12 h in the past). No location data will be written to Exif data.
No icon	Geotagging is deactivated.

Notes

- This function is available only as long as the camera is on line with the Leica FOTOS app.
- The use of GPS and associated technologies may be restricted in some countries or regions. Violations will be prosecuted by local authorities. You should therefore contact your travel agent or the embassy of your destination country for relevant information beforehand.

ADVANCED PARAMETERS FOR IMAGE PROPERTIES

The image properties of JPG pictures and video recordings can be changes slightly using several parameters. These are compiled in pre-configured profiles. Previously, only setting options for Contrast, Sharpness and Saturation were provided. These options have now been complemented with the parameters Highlight and Shadow. These parameters can be adjusted for all available profiles (Saturation only for color profiles).

HIGHLIGHT/SHADOW

Depending on the exposure selected and the dynamic scope of the object, some details in brighter or darker areas may no longer be clearly visible. The parameters Highlight and Shadow allow differentiated control over very brightly or less brightly lit areas. Where, for example, part of the object is in shadow, a higher setting for Shadow can help brighten these areas to make details more visible. Conversely, existing shadows or particularly bright areas might be additionally emphasized for reasons of image composition. Positive values will brighten the targeted areas, while negative values will darken them.

Selecting a profile (photo)

- Select JPG Settings in the main menu
- Select Film Style
- Select a profile

Adjusting a profile (photo)

- Select JPG Settings in the main menu
- Select Film Style
- Select Film Style Settings
- Select a profile
- Select Contrast / Highlight / Shadow / Sharpness / Saturation
- Select the desired level (-2, -1, 0, +1, +2)
- Confirm

Selecting a profile (video)

- Select Video Style in the main menu
- Select a profile

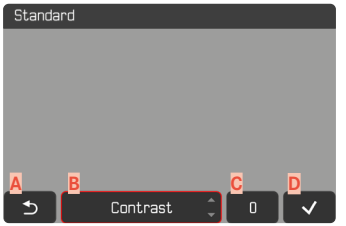
Adjusting a profile (video)

- Select Video Style in the main menu
- Select Video Style Settings
- Select a profile
- Select Contrast / Highlight / Shadow / Sharpness / Saturation
- Select the desired level (-2, -1, 0, +1, +2)
- Confirm

Note

- The Video Style function is unavailable if any other setting but Off is selected for Video Gamma.

SELECTING SETTINGS



A “Back” button
(Exit without saving)

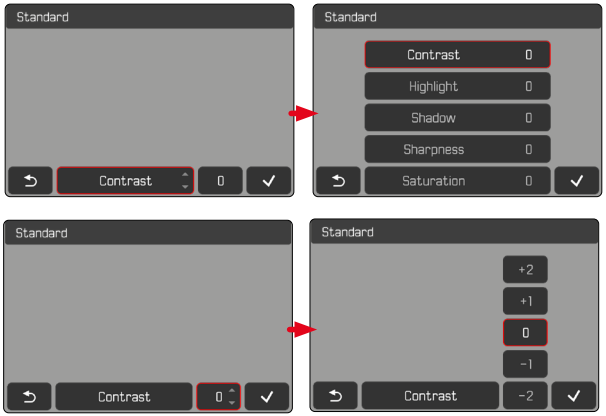
B “Parameter” button

C “Setting” button

D “Confirm” button
(Save and exit)

The operation is slightly different, depending on whether the settings are done via key control or touch control.

The screen image will remains visible continuously while settings are being adjusted. The result of the setting can be observed directly.



Using button control

Navigating between buttons

- Press the directional pad left/right
  - An active button is indicated by a red frame.

Applying setting

- Press the directional pad up/down
  - The button toggles directly between each of the options.

or

- Press the center button
  - All selectable options are displayed.
  - The “Parameter” button displays the currently set value for each of the parameter options.
- Press the directional pad up/down
  - An active button is indicated by a red frame.
- Press the center button
  - The options are no longer displayed.

Using touch control

- Tap the desired button
  - All available options are displayed for the buttons “Parameter” and “Setting”.
  - The “Parameter” button displays the currently set value for each of the parameter options.
- Tap the desired alternative

SAVE

- Select the “Confirm” button

CANCEL

- Select the “Back” button

NEW VIDEO FORMATS

MOV							
C4K	29.97 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	400 Mbps
	25 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	400 Mbps
	24 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	400 Mbps
4K	29.97 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	400 Mbps
	25 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	400 Mbps
	24 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	400 Mbps
FHD	29.97 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	200 Mbps
	25 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	200 Mbps
	24 fps	4:2:2 / 10 bit (SD & HDMI)	35 mm & APS-C	H.264	ALL-I	200 Mbps

MP4						
4K	29.97 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	100 Mbps
	25 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	100 Mbps
FHD	180 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	20 Mbps
	150 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	20 Mbps
	120 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	20 Mbps
	100 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	20 Mbps
	29.97 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	20 Mbps
	25 fps	4:2:0 / 8 bit (SD & HDMI)	35 mm & APS-C	H.264	Long GOP	20 Mbps

DATA MANAGEMENT

Folder numbers up to 999 can now be created. Image numbering was extended to 9999.