



Walker + Reader User Manual

“The Printable Version”

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<https://knowledge.elementice.com/>

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Compliance Statements (for North American devices)

Information to the user (FCC Part 15.105)

Class B product:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Modification Warning (FCC Part 15.21)

Warning: Any changes or modifications not expressly approved by MENTIS TECHNOLOGIES (trading as ELEMENTICE) could void the user's authority to operate this equipment.

This Device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-3 (B)/NMB-3(B)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Mounting and Connecting Walker to your Camera

The included L-Bracket is a universal 38mm mounting bracket. Use the shorter included D-bolt to mount the L-Bracket to your camera as pictured. The Walker has a corresponding dovetail slot to slide onto the mount, either to the left of the camera or underneath.

Left Side Mount (recommended for most cases)



- 1)** Slide the Walker into position from the top so that the blue face is facing the back of the camera and the indicator lights are visible to you while shooting.
- 2)** Finger tighten the Position Locking Bolt (longer D-bolt) so that the Walker can't slide off the mount by accident.
- 3)** Select the correct camera cable for your camera and plug the 2.5mm headphone jack into the Walker pushing firmly, and the USB end into your camera's USB port.

4) Secure the L-Bracket to your camera body so that the L-Bracket's vertical side safely covers and protects the USB port of the Camera.

Bottom/Right side mount

Bottom/Right side mount is usually only used for shooting with the camera in portrait orientation, on a tripod when this can't be done using a Left side mount. We'll start by setting up with the camera sitting normally on the table, and then you can turn it 90 degrees for portrait orientation when you attach it to the Tripod.



- 1)** Select the correct camera cable for your camera and plug the USB end into your camera's USB port.
- 2)** Secure the L-Bracket to your camera body so that the L-Bracket's vertical side safely covers and protects the USB port of the camera, but there is additional space for the Position Locking Bolt (longer D-bolt) to use the 1/4" thread at the bottom, near the corner of the L-Bracket.

- 3)** Slide the Walker onto the longer side of the L-Bracket from the right of camera so that the blue face is facing the back of the camera and the indicator lights are visible to you while shooting.
- 4)** Finger tighten the Position Locking Bolt so that the Walker can't slide off the mount by accident.
- 5)** Take the loose end of the USB cord you already plugged in, (it will be a 2.5mm headphone jack) and plug it in to the Walker, pushing firmly.

Mounting to Tripod.

You can now mount the camera to your tripod using any compatible universal quick release or directly using the 1/4" threads on the L-Bracket.

Bottom/Right side mount is usually only used for shooting with the camera in portrait orientation, on a tripod when this can't be done using a Left side mount. We'll start by setting up with the camera sitting normally on the table, and then you can turn it 90 degrees for portrait orientation when you attach it to the Tripod.

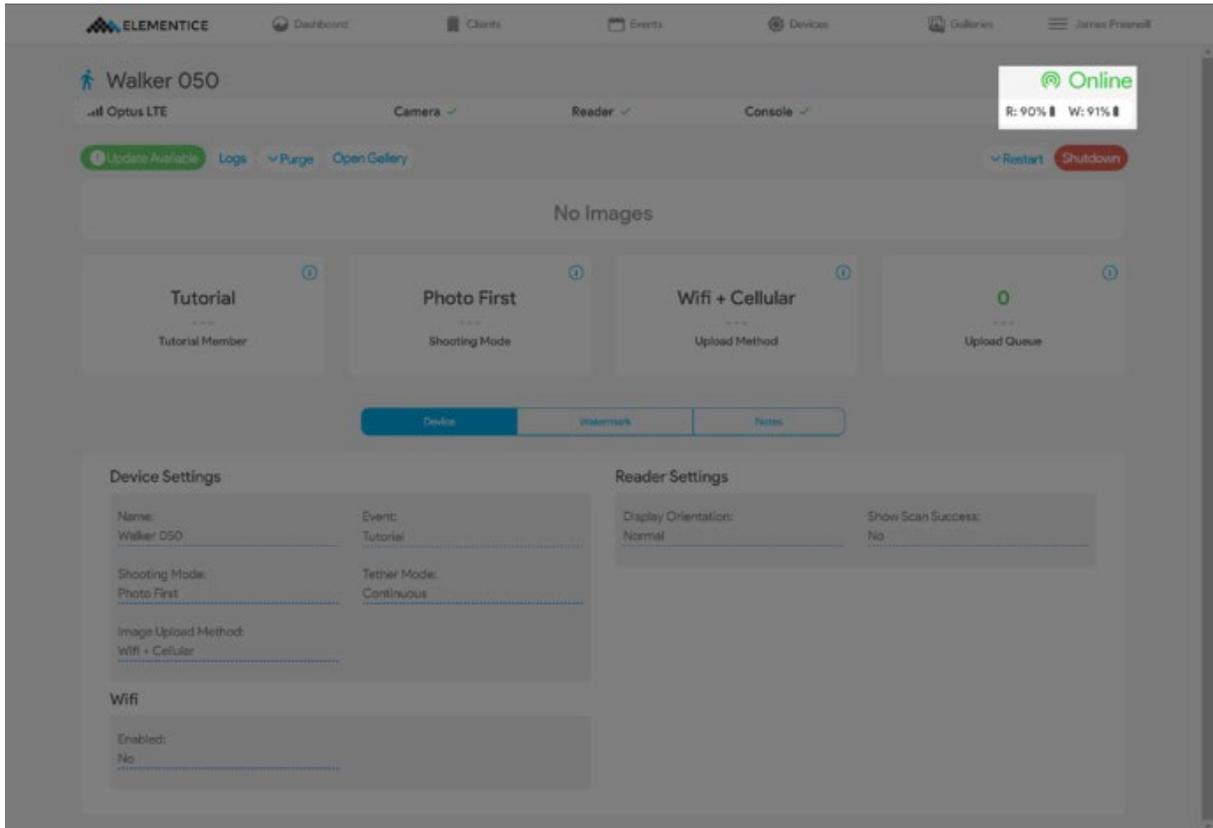
*If your quick release system is incompatible with the L-Bracket directly, you can also use the 1/4" threads on the L-Bracket as mounting points for your own quick release plates.

Battery Charging and Maintenance

The Walker does not have a display of its' own, but the connected Reader displays the battery level of itself (R) and the Walker (W) it is paired to, in the top right corner of it's screen.



You can also see the battery level of all online devices on the ELEMENTICE Console, including at the Device Page.

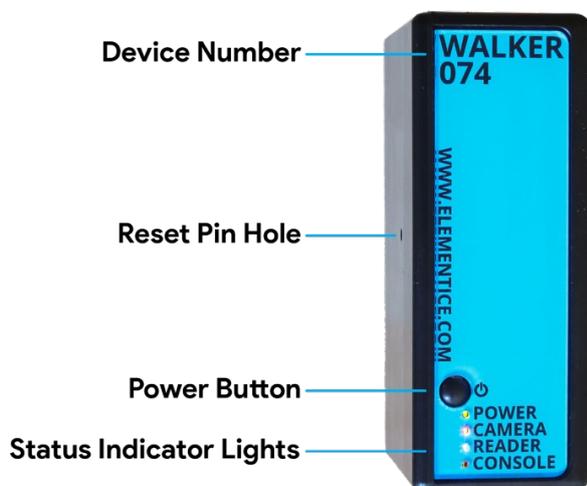


Our devices are compatible with Fast Charging. Using a fast charger, a Walker would charge to 50% in 30-40 minutes and 100% in around 90 minutes. Using a standard charger approximately doubles these times.

If the device battery was completely depleted on last use or the device was left off charge for an extended period, battery protection will have kicked in and you will need to charge the device to 100% before it will turn on again.

To ensure the ongoing health of your device's battery, each of your ELEMENTICE devices should be fully charged at least once every two weeks.

Powering on, powering off + rebooting a Walker



Powering On

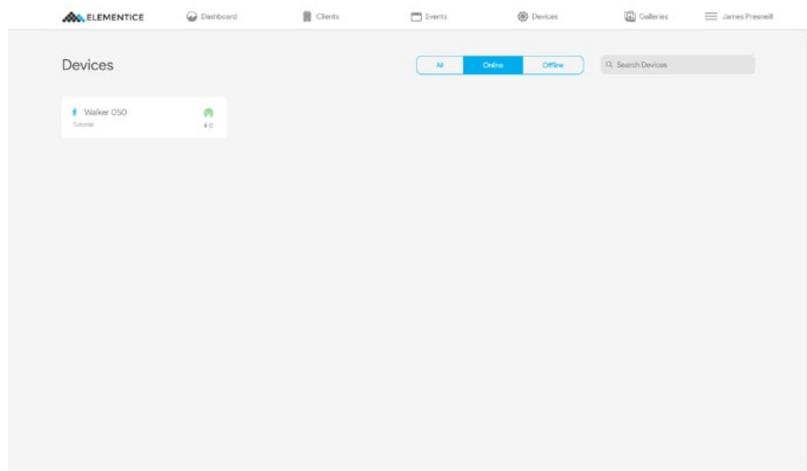
Press and HOLD the Power button for approximately three seconds (black button located on the blue face of your Walker... the only button on the entire Walker), then watch the four status lights next to the power button, as it boots...

Powering Off

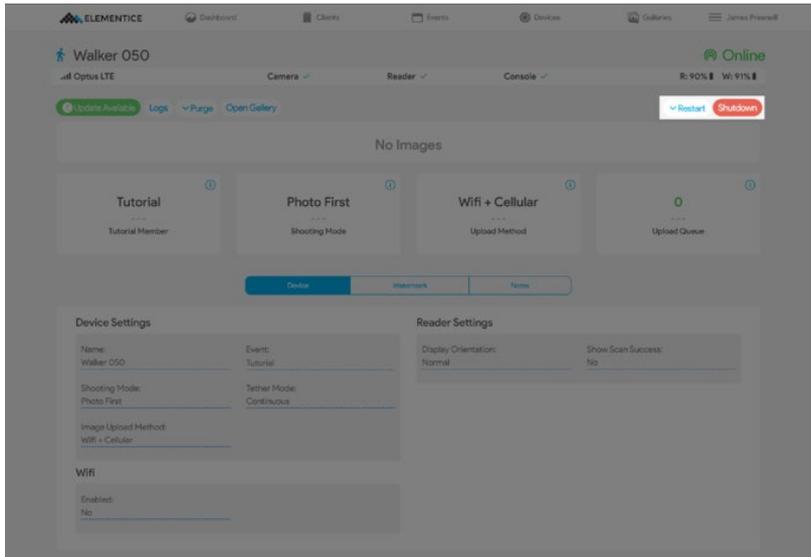
Press and HOLD the Power button for approximately three seconds until most of the status lights turn off. The green Power light will stay on for a short time while it completes power-down procedures. (If a Reader is paired, it will also shutdown automatically after the Walker shuts down.)

Restart or shutdown from Console

With your Walker turned on, open the ELEMENTICE Console and click on "Devices" tab on the top banner of the Console and select the relevant Walker.



You are now on the Device Page and can access the Shutdown or Restart commands from the row of controls above the image feed.



Hard Reset

If all else fails and you can't shut down your Walker, insert a paperclip into the reset pin hole on the device to push the internal button. The power will cut out immediately. Then you can follow normal power-on procedures.



Important Camera Settings

Memory Card

You must have a memory card in your camera. The faster, the better – if your

card is slow, it will take longer for the Walker to download the images off your camera and will slow down the entire system.

WiFi off

If your camera has WiFi, please turn it off so that it does not interfere with other signals.

Auto Power off / Standby Timer

Must be set to greater than 10 minutes so that the Walker can always communicate with the camera. If the camera goes to sleep it may cause images to not be uploaded.

Why 10 minutes? If there is a continuous period of 10 minutes of inactivity, the Walker will shut down to save battery – at this point, it is ok for the camera to go to sleep too.

Image aspect ratio

Our system is expecting 3:2 ratio images to be uploaded, if you need to use a different ratio, please contact us to ensure that you have appropriate adjustments in place prior to use.

Image Rotation/Auto Rotate

If this is turned off, there will be no metadata in the images to tell whether they are portrait or landscape, and can cause issues with watermarks. Make sure it is turned on either for both camera and computer or just for computer.

Picture Style

If you are used to photographing in RAW, you probably haven't changed this setting from neutral. Since we are delivering images Straight Out Of Camera, you should select a Picture Style setting which gives the jpeg images a level of colour and contrast that you are happy with. We tend to use 'Standard' setting on a Canon 5Dmk3.

Image Quality

Our system will only download JPEG files, so you must have JPEG files being saved to the/one of the memory cards.

We recommend using the smallest practical file size in order to save time uploading and to keep your data costs down.

Canon 5Dmk3	Image Resolution	File Size (approx)	Prints to (@250dpi)
S1 Small JPEG	2880x1920 (5.5 MP)	1.5MB	11.5"x7.5" Approx A4
Medium JPEG	3840x2560 (9.8MP)	3MB	15"x10" Approx A3
Large JPEG	5760x3840 (22MP)	5MB	23"x15" Approx A2

Saving JPEG + RAW

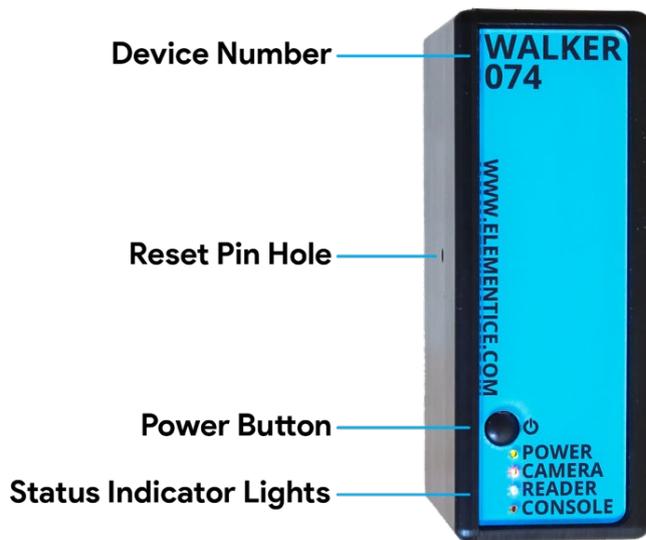
If you wish to save RAW files in addition to the JPEG files which are used for Walker, we recommend using a camera with dual card slots and using 'Record Separately'. This will allow you to save JPEG to one card, and RAW to the other card.

If you only have one memory card, make sure your camera is set to save both RAW and JPEG to the same card. Our system will ignore the RAW files and copy the JPEG files. The process will be slightly slower because the camera is writing two files before we can copy the JPEG, but it is an option.

**Warning. We do NOT recommend using 'Record to Multiple' as this will save a copy of the photo on each card. If you are shooting JPEG only, Walker will take both images and upload both – doubling your data usage and creating duplicate images in the user's gallery.*

If you are saving JPEG and RAW, you will end up with a RAW and a JPEG on each card. Walker will again, take both JPEGs and upload both, but it will take much longer because the camera needs to finish saving four files before Walker can access them.

Status Lights on Walker



Power (Green)

The green Power LED will light up to show that the Walker is powered on. This should happen immediately upon pressing the power button, but it will be up to 30 seconds before other status lights begin indicating.

Camera (Orange)

The orange Camera LED will keep flashing until the camera is BOTH plugged in and powered on.

Reader (Blue)

The blue Reader LED won't turn on until you try to pair the Reader.

Console (Yellow)

The yellow Console LED will keep flashing until it is able to connect to the internet (via 3G/4G) and make a connection with the ELEMENTICE Console. If there is decent mobile reception, the light should automatically go solid after approximately 10 seconds of flashing.

Wifi (Green) / some models

The wifi status light will illuminate if wifi is turned on and connected, or flash if wifi is turned on but not connected.

A solid light means

If a light is solid, it means it is connected or working (good).

A flashing light means

If the light is flashing, it means it is trying to connect. Usually you just need to give it a minute before it will go solid.

No light means

If a status light is not turning on at all, it means it isn't trying to do anything (for example the blue Reader light will not turn on until it is told to try and pair with a Reader). You might need to do an action or change a configuration in the Console to make it do things.

[Pairing a Reader](#)

With the Walker powered on (and other lights either flashing or solid), press the Power button once. The Walker will enter 'pairing mode' for 10 seconds and the blue 'Reader' light will begin to flash rapidly.

While the blue 'Reader' light on the Walker is flashing, press the centre (blue) button on the Reader. The Reader will show an ELEMENTICE logo on the screen as it boots, and then connect to the Walker.

When connected, the blue 'Reader' light on the Walker will stop flashing and go solid to indicate a connection. Meanwhile, the Reader will display useful information.

If you need to disconnect a Reader, press the power button on the Walker again. The Walker will drop the current reader connection and enter pairing mode again. You can either reconnect with the same Reader by pressing the centre Reader button again (while the blue 'Reader' light is still flashing quickly) or pair with a new Reader by pressing that Reader's centre button instead.

Reader Screen & Control Basics



- 1) **IDs** - Shows number of IDs scanned in this session.
- 2) **Battery** - Battery indicators for the Walker and Reader.
- 3) **Sync** - Shows the number of full-size images in the queue to upload. If there are no images waiting, it will display a tick.
- 4) **Right-hand button** - if held enters 'Continuous Scan Mode'
- 5) **Reset pin slot** - If required, insert a paperclip here to hard-reset the Reader.
- 6) **Centre button** - Used to pair the Reader with a Walker and once paired, activates the barcode/QR reader.
- 7) **Left-hand button** - Currently unmapped. A new feature will be added later. Check the online knowledgebase for updates.
- 8) **Pics** - Shows you the number of photos in this session.
- 9) **Network** - Shows mobile network provider and 3G/4G signal strength.

Inverted Screen Mode

If the normal orientation of the Reader screen doesn't fit with your workflow, you can change the Walker's settings to invert the screen of the paired Reader via the ELEMENTICE Console.

[Using the Barcode/QR Code Scanner](#)

Once the Reader is connected and displaying the standard screen, pressing the centre (blue) Reader button will activate the barcode scanner. A red dot and square will be projected from the end of the Reader. Point that red dot at the barcode or QR code that you wish to scan. If it's not scanning, try moving the Reader closer or further away from the barcode or QR code.

The red light will turn off again when it achieves a successful scan or after five seconds (whichever happens first). You'll know you've had a successful read if the Reader beeps and buzzes, plus the number of IDs displayed on the screen will increase. You can see this in action in the Shooting Modes video available at the online knowledgebase.

Continuous Scan Mode

Continuous scan mode on the Reader makes the Barcode/QR code reader motion activated, rather than having to press the centre button of the Reader to activate the scanner.

To activate Continuous Scan mode, hold down the right-hand button on the Reader until the Reader beeps twice and 'CS' appears at the top of the Reader screen (alongside the battery icons).

To scan while in CS mode, simply wave something in front of the barcode/QR code scanner. You'll notice the red light activate. The Reader will beep and buzz to indicate a successful read, plus the number of IDs displayed on the screen will increase.

To return to normal scanning mode, hold down the right-hand button on the Reader until the Reader beeps twice and 'CS' disappears from the top of the Reader screen.

Show Scan Success

Sometimes a beep and buzz just aren't enough, if you'd also like a big tick to display on the Reader screen upon successful scan... This can be configured via the ELEMENTICE Console.

[Console + remote management of device settings](#)

For information on configuring your device for different shooting modes, tether modes, performing device software updates etc. (with a bunch of helpful tutorial videos) see the online Knowledge base at:

<https://knowledge.elementice.com/>