Blink User Manual

FARO

April 2025
Regulatory Model: GGS1

Legal Notices

Release Notice

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Chapter 1: Safety Information

Read this user manual carefully and completely and refer to it before using the product. Pay close attention to all warnings and follow the instructions step by step. In this document, the scanner and its accessories are also referred to as *the devices*.

Notes and Signs

DANGER! A DANGER denotes a hazard. It calls attention to an operating procedure or practice that, if not correctly performed or adhered to, will result in personal injury or death. Do not proceed beyond a DANGER notice until the indicated conditions are fully understood and met.

WARNING! A WARNING denotes a hazard. It calls attention to an operating procedure or practice that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

CAUTION! CAUTION denotes a hazard. It calls attention to an operating procedure or practice that, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

NOTICE: A NOTICE denotes a hazard. It calls attention to an operating procedure or practice that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a NOTICE notice until the indicated conditions are fully understood and met.

NOTE: A NOTE is additional information that aids you in the use or understanding of the equipment or subject. They are not used when a WARNING or CAUTION is applicable. They are not safety related and may be placed either before or after the associated text.

General Safety Information

CAUTION!

- Do not open the housing. Opening the housing can result in serious personal injury due to dangerously high voltages, or damage to the product, which will affect the product's warranty.
- Do not use parts not supplied or recommended by FARO.
- Only replacement parts authorized by FARO may be used, and in accordance with the instructions provided by FARO.
- Do not expose the Blink scanner and its accessories to **extreme temperatures**. The ambient temperature must not be lower or higher than given in the specifications. Do not use the Blink scanner near heat sources, such as radiators, heat registers, or other heat-producing products (including amplifiers).
- Do not **immerse** the Blink scanner and its accessories in **water**. Liquid inside the product enclosure can lead to damage, fire, or electric shocks.
- Properly dispose of the product and batteries in accordance to the local and national regulations. For more information, see *Nameplate symbols* on page 3.
- Do not use the Blink scanner and its accessories in an **explosive environment**. Do not operate the instrument in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a safety hazard.
- Do not use the Blink scanner in the vicinity of strong **magnetic or electrical fields**.
- Before operating the Blink scanner and its accessories in **hazardous areas**, contact the local safety authorities and safety experts.
- For **outdoor use**, ensure that the device is protected from rain or spray water. Use the scanner in a non-condensing environment.

CAUTION! When the product is transferred from a cold to a significantly warmer environment, water may condense on some elements inside the scanner. To avoid this, place the scanner in an airtight plastic bag before transfer. This allows the condensation to form on the bag rather than inside the scanner. If you cannot pack the scanner in an airtight manner, wait until observable **condensation water** evaporates from the scanner before switching the Blink scanner on.

Nameplate symbols

One or more of these symbols may be found on your FARO device and accessories. Refer to the information below to understand what they mean.


Indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling. Contact your local government or local waste disposal operators to ensure you comply with local laws.


Indicates that FARO has provided important information in the user manual regarding intended use and safety. Read this information before using the device.


Indicates that documentation is provided and required to use the product.

Indicates that the device is for indoor use only.


Indicates that there are no user serviceable parts inside the housing.


Indicates that the battery should be recycled in an environmentally suitable way.


Indicates that the battery should neither be incinerated nor set on fire.


Indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area.


Indicates that the product contains components with the Recognized Component Mark, which is a type of quality mark issued by Underwriters Laboratories (UL).


Indicates that the electromagnetic radiation from the device is below the limits specified by the Federal Communications Commission.


Indicates that a product complies with the Japanese Radio Act.


Indicates that the product complies with the requirements of the relevant Australian Communications and Media Authority standards made under the Radiocommunications Act 1992.


Indicates the position of the USB-C interface on the product.

Intended Use

- Use the devices with the operating conditions and limitations described in this manual.

Improper Use

- Improper use means using the product other than described in this user manual, or under operating conditions which differ from those described herein.
- Improper use of the product may impair the protection provided by the product, and product damage or serious personal injury may be caused.

Operators

In the interests of safety, the FARO scanner and its accessories should only be used by suitably-trained and knowledgeable operators, after they have read and understood this manual, and carefully considered all potential hazards involved.

We recommend that operators participate in trainings offered by FARO.

Electrical Safety

WARNING! Do not open the housing. Dangerously high voltages are present inside the enclosure. Only qualified service personnel should open the housing. Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or cause short circuits. This could result in a fire, electric shock, or damage to the product.

NOTICE: This device is not intended for use in residential environments, and it cannot ensure a suitable degree of protection of radio reception in such environments.

- This product should be operated only from a battery supplied or recommended by FARO.

Battery Safety

The following safety measures must be followed when working with the battery (ACCS-PWR-0014[1]):

- Charge the battery only a charger supplied or recommended by FARO.
- Ensure that the specifications of the AC converter are met. If you do not know the power-line voltage in your area, consult your local power company.
- Do not charge or discharge damaged batteries.
- Do not charge the battery when it is stored in the transport case.
- Do not use wet or dirty batteries in the device or with the charger.
- Charge between 0 °C and +45 °C (+32 °F and +113 °F) environmental temperature. Recommended charging temperatures: +10 °C to +30 °C (50 °F to +86 °F).
- Discharge between +5 °C to +40 °C (+41 °F to +104 °F) environmental temperature.
- Insert or remove batteries in dry and dust-free environments only.
- When the scanner is not in use for a longer period, remove the battery.
- Store the device only when it is charged (at least 30% charge state). It is recommended to charge the device once a year when it is stored long term.
- Storage temperatures when at 30% charge are:
  1 month: -20 °C to 60 °C (14 °F to 140 °F)
  3 months: -20 °C to 45 °C (14 °F to 113 °F)
  1 year: -20 °C to 25 °C (14 °F to 77 °F)
- Do not bring metal objects into contact with the batteries' terminals. The terminals may short circuit and generate heat in this condition.
- Do not immerse batteries into water or fire (danger of explosion).
- Dispose of batteries in accordance with environmental regulations. Contact your local waste disposal management authority for guidelines concerning lithium-ion batteries.

[1] In China, the battery part number is ACCS-PWR-0014-CN.

Battery Charger Safety

These safety measures must be followed, when working with the FARO battery charger ACCS-PWR-0013:

- Do not charge any batteries other than the FARO batteries in the FARO charger.
- Regularly check the plug, cord, and charger. In case of damage, contact FARO Customer Service.
- Do not bring metal objects or fluids into contact with the charger terminals. The terminals may short circuit and generate heat.
- To avoid electrical shock, use the charger and the power supply unit in dry indoor environments only.
- The charger should be kept in a dry room, out of the reach of children and pets.

NOTICE: Do not leave the battery in the Power Dock when it is not being charged, as this can result in a deep discharge state from which the battery cannot be recharged.

DANGER! Do not operate the charger in an environment allowing exposure to moisture, combustible fluids, or gases. There is a danger of explosion.

Laser Safety

- The Blink scanner is classified as a **CLASS 1 LASER PRODUCT** in accordance with IEC 60825-1:2014 (ed. 3).
- Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.
- The Blink scanner is safe under reasonably foreseeable conditions of operation. The maximum permissible exposure (MPE) cannot be exceeded. It is harmless to the eyes if it is used and maintained in accordance with the instructions in this User Manual.

Mechanical Safety

CAUTION! General Use The Blink scanner may only be used when set on a flat and stable surface. Injuries and serious damage to the device may result if the scanner overturns. Avoid grabbing the scanner if the tripod tips—grab the tripod instead. Only use equipment recommended by FARO and follow the FARO setup instructions or the equipment manufacturer's instructions.

CAUTION! Do Not Open the Housing Opening the housing can cause serious personal injury and damage to the product.

NOTICE: Rotating Scanner The scanner rotates counter-clockwise up to 360° when performing a scan. Ensure that the scanner's scanner head can rotate freely and will not hit any objects during the scan.

NOTICE: Replacement Parts Use only replacement parts authorized by FARO according to the instructions obtained from FARO. Do not use parts not supplied or recommended by FARO.

NOTICE: Maximum height of tripod (FARO part number ACCS-TRPD-0015) with device: 147 cm (4 ft 9.87 in).

Chapter 2: Getting Started with Blink

The Blink scanner is a high-speed, three-dimensional scanner for detailed measurement and documentation. The scanner uses high resolutions cameras and LiDAR technology to produce a high-resolution panorama picture and detailed three-dimensional images of complex environments and geometries in less than 30 seconds. The resulting images consist of millions of 3D measurement points.

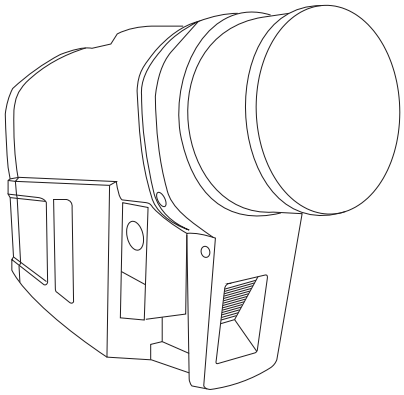
The scanner provides cost-effective, exceptional capturing efficiency, data quality and accuracy for professional applications across the construction, public safety, operations and maintenance and manufacturing markets.

Blink Included Equipment

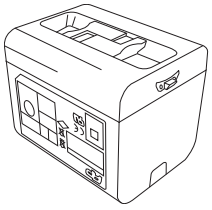
NOTICE: Keep all packing materials. Pack the scanner in the box in which it was shipped when returning it for service.

NOTE: The drawings in this section are not to scale.

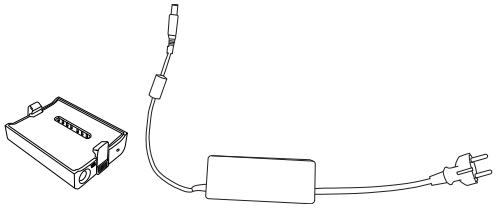
Blink scanner



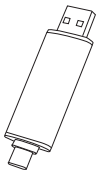
Three (3) Batteries (For larger scan projects, we recommend that you purchase extra batteries. Part number ACCS-PWR-0014[1])



Battery charger

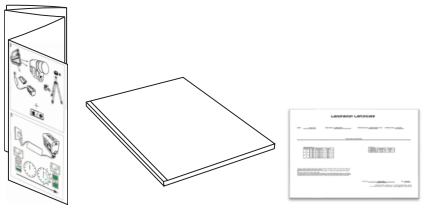


USB flash drive (512 GB)

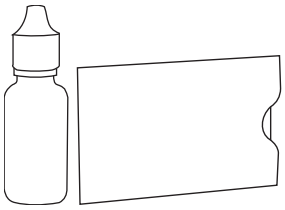


[1]In China, the battery part number is ACCS-PWR-0014-CN.

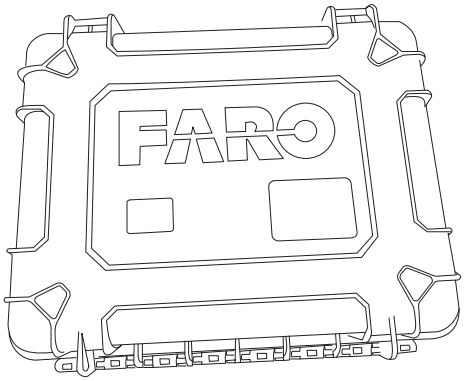
Quick start guide, safety manual, and calibration certificate



Optics cleaning fluid and cleaning tissues



Scanner transport and carrying case



Required Additional Equipment

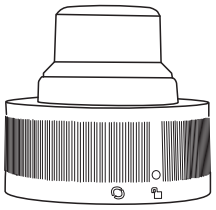
- A recent, high-end phone or tablet with Android 13 (or higher) or iOS 18 (and higher) with a minimum of 64 GB of storage capacity and 8 GB RAM. We recommend 25 GB and 16 GB RAM for larger scan projects. (Phones and tablets are referred to in this document as *mobile devices*.)
- A tripod. FARO strongly recommends the FARO Blink tripod (part number ACCS-TRPD-0015).

Recommended Additional Equipment

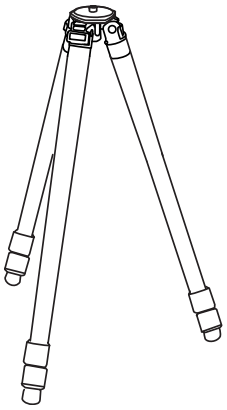
NOTE: The instructions in this document assume that you have this additional equipment.

Backpack
ACCS-CASE-0033

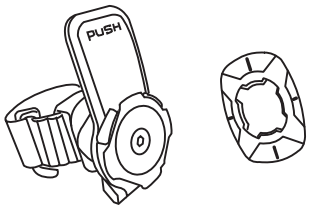
Quick Mount
ACCS-MNT-0020



Tripod
ACCS-TRPD-0015



Phone Mount
ACCS-MNT-0021 and GS_310275



Parts of the Scanner

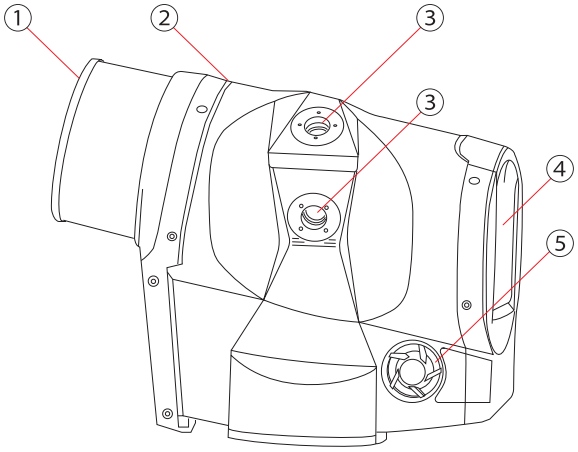


Figure 2-1 Blink scanner, camera side

① LiDAR sensor

② LED status indication ring

③ Cameras

④ Battery cover

⑤ Cooling fan - keep this opening uncovered and at least 18 cm (7 in) from the floor or any other surface.

⑥ Power button

- Short press to start scanner or start a scan
- 3-4 second press to shut-down scanner
- 10 second press for a hard shutdown if scanner is not responding.

⑦ LED Power indicator
25%, 50%, 75%, 100%. The 25% light will flash when the power is less than 10%.

⑧ Reset button
(Use only if directed to do so by FARO Support.)

⑨ LED indicator for USB port (currently inactive)

⑩ USB-C port
(For USB flash drive only. Do not apply power to this port.)

⑪ Cooling vent - keep this opening uncovered and at least 18 cm (7 in) from the floor or any other surface.

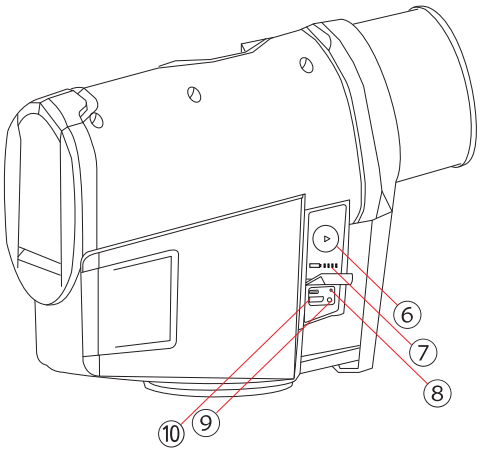


Figure 2-2 Blink scanner, power button side

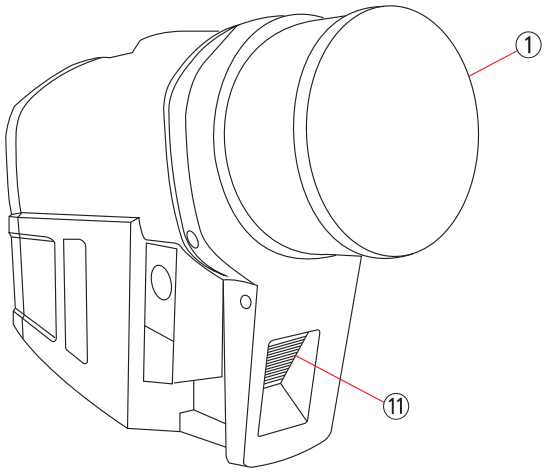


Figure 2-3 Blink scanner, sensor side

Chapter 3: Your First Scan Project

Before beginning your scan project, roughly plan where you need to scan to capture all the surfaces that are important to you. Read the section *Best Practices & Troubleshooting* on page 28 before you begin.

1. Charge and insert the battery as described in *Charging the Battery with the Power Dock charger* on page 13 and *Inserting the Battery into the Scanner* on page 16.
2. Install Stream on your mobile device as described in *Install Stream* on page 17.
3. Sign up for a Sphere XG account.
4. Assemble the tripod and described in *Attaching and Using the quick mount* on page 19 and attach the *Attach Your Mobile Device to Tripod* on page 21.
5. Check the camera lenses and the laser sensor and clean if necessary.
6. Position the tripod for your first scan. Read the section, Carrying the Scanner to learn how to correctly lift and move the tripod and scanner.
7. Start to scan by pressing the icon in Stream. While scanning remember to move around the scanner to avoid being scanned, as explained in the section, *How To Use The Scanner While Scanning* on page 23. When the scan is complete, you will see the scanned environment in Stream.
8. After the scan is complete, Lift the tripod and move the scanner to the next scan position. As you move, pay attention to what Stream shows you. Your position relative to the last scan will be shown on the screen, as well as a line showing how you have moved. You will also see a blue ring that gives an indication of how far you should move from the original scan to ensure that the two scans have enough overlap and can be automatically aligned with each other (this is called *registration*).
9. In between scans, you can add information to your scans, such as pictures or annotations.
10. When the tripod is positioned for the next scan, move to ensure that you will not be captured by the scanner and press the scan icon.

Repeat the steps above until you have scanned the area that is important for your project. When you are finished, you can upload your scan project to Sphere XG for processing and visualization, or export to the USB flash drive to upload into SCENE.

Charging the Battery with the Power Dock charger

As a safety precaution, new batteries are shipped with a charge of less than 30%. New batteries must be completely charged before first use. Full capacity of a new battery will only be reached after a couple of charge/discharge cycles. We recommend fully charging the battery before each use. Keep a spare battery, if necessary, during your scan project.

DANGER! Danger of explosion or fire Do not immerse batteries in water or fire. Do not bring metal objects into contact with the battery terminals. The terminals may short-circuit and over-heat.

DANGER! Danger of fire or electric shocks Ensure that the devices are protected from rain or spraying water. The battery charger is not intended for outdoor use.

The battery charger can be used in various countries. It is compatible with a 100 V AC to 240 V AC 50/60 Hz power source. Use a voltage adapter, if necessary.

NOTICE: Do not leave the battery in the Power Dock when it is not being charged, as this can result in a deep discharge state from which the battery cannot be recharged.

1. Connect the power-supply unit's cable to the power socket of the FARO Power Dock. Do not use force while inserting the plug in the wrong direction, or the plug and the Power Dock can be damaged.

   NOTICE: Place the FARO Power Dock on a flat, non-slip surface. Ensure that the cable is positioned, so that it cannot accidentally be pulled by passing objects. If the Power Dock is dropped, check the device and replace if damaged.

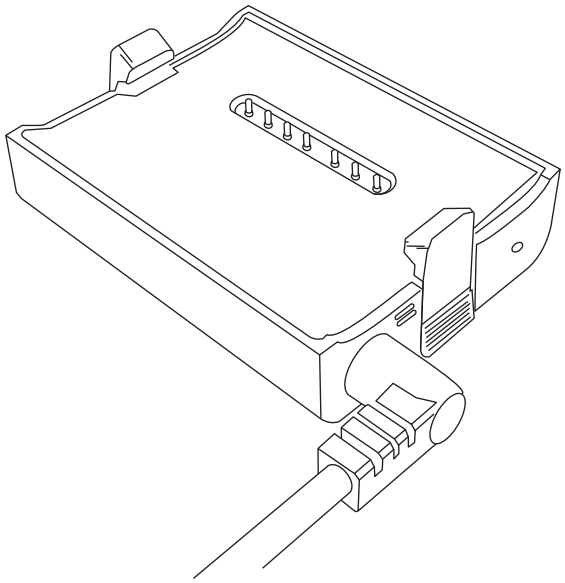


Figure 3-1 Power Dock with connected power cable

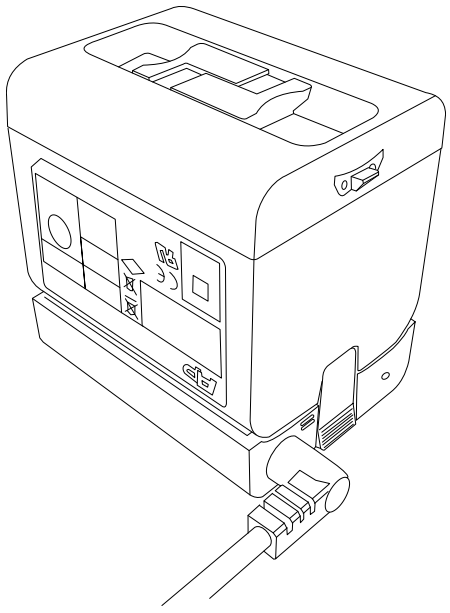


Figure 3-2 Placing the battery on the Power Dock

2. Connect the AC power cable to the power-supply unit and a power outlet. Check the input voltage on the type label before connecting.
3. The LED of the Power Dock illuminates white for ACCS-PWR-0013, when power is correctly connected.
4. Place the battery on top of the Power Dock . Ensure that the battery terminals are aligned correctly with the pins of the charger. Snap the battery into place.
5. Charging starts automatically; the LED blinks and illuminates according to the current charging state of the battery.

After charging, when the LED shines green, carefully press the charger interlock mechanism and remove the battery.

NOTICE: Check the Power Dock for damage before use, being sure to check that the safety clamps have not been damaged, which can occur if the Power Dock falls while holding a battery.

Figure 3-3 Undamaged vs damaged safety latch

① **Undamaged safety latch** - Note the *vertical* position.
② **Damaged safety latch** - Note the *slanted* position.

NOTICE: Do not use a damaged Power Dock. Doing so may damage the battery.

Inserting the Battery into the Scanner

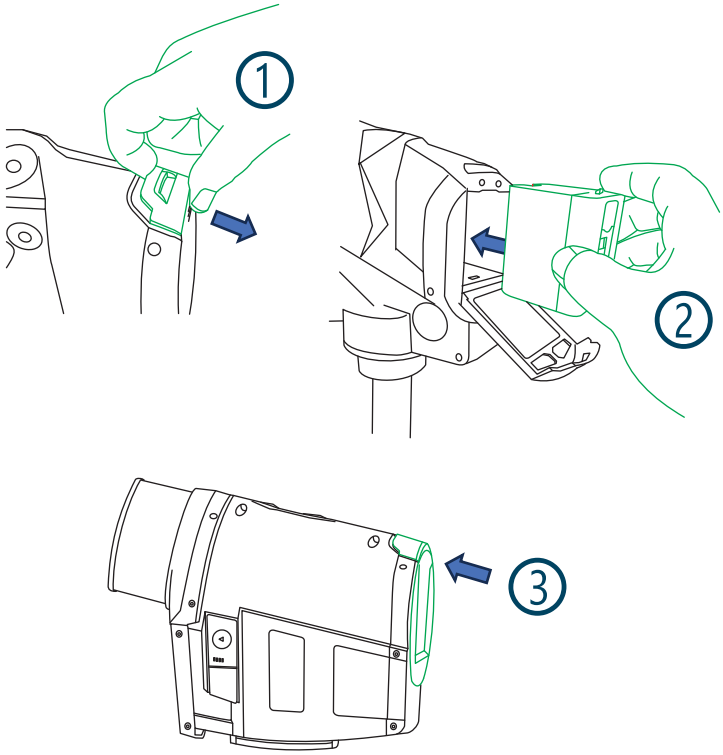


Figure 3-4 Inserting the battery

1. Pull up and back on the latch as shown in step ①.

2. Align the battery with the contacts on the left side.

3. Carefully slide the battery into the scanner as shown in step ②. When you hear a click, the battery is secured in the chamber.

4. Close the door and push to secure the latch as shown in step ③.

To remove the battery, repeat step 1, above, then pinch the latches together, and pull the battery out of the chamber.

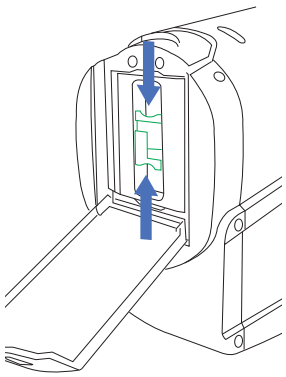


Figure 3-5 removing the battery

Tips for Using the Battery

- Charge the battery the day of use, or the day before. An unused, charged battery gradually loses its charge.
- If the battery empties quickly after being fully charged, replace it with a new one.
- For optimal battery performance, use the device when the ambient temperature is within the limits listed in this manual. In colder or warmer locations, battery performance and operation time may temporarily decrease, and charge time may increase. If the battery temperature is too high, it may not charge at all until the battery cools down.

NOTE: Before starting a scan project, ensure that your mobile device and scanner batteries are fully charged. For larger projects, we recommend that you use an off-the-shelf power bank to ensure that your phone or tablet has power for the entire working day.

Install Stream

To work effectively with Blink, you need to download FARO Stream. Stream is an app for your Apple or Android mobile device that enables you to control a FARO scanner, get a real-time view of scan progress as it happens, and upload the project to the cloud. Use the instructions below to install the app.

1. On your mobile device, open Google Play or the Apple App Store.
2. Download and install the FARO Stream app, provided by FARO Technologies Inc.

Always check to ensure that you have the most recent version of the app, and the scanner firmware that the app requires. You can find this information on the app's page in Google Play or the Apple App Store. The latest Blink firmware can be downloaded and installed with the Stream app.

Sign up for a FARO Sphere XG account

Although you can use Stream without a FARO Sphere XG account, Sphere XG allows you to modify and share your project in the cloud. If you don't use Sphere XG you will need SCENE, FARO's desktop software to work with your scans.

To sign up for Sphere XG:

Scan the QR code below or enter https://www.holobuilder.com/free-trial/ in a browser and follow the instructions.

Attaching and Using the Quick Mount

WARNING! Danger of injuries, especially to children or kneeling persons
Injuries may result, if the scanner overturns.
- The scanner may only be used on a flat, stable surface.
- If using a cart or tripod dolly, move the setup with special care. Never move the cart by pulling at the power cables. Pushing or pulling the cart with too much force, sudden stops, or over an uneven surface can upset the scanner.
- In windy conditions, use sandbags to stabilize each foot of the tripod.

The quick mount enables you to quickly and safely attach and remove the scanner from the tripod.

Prepare the Tripod

1. Extend the tripod legs and place the tripod on a stable surface at a convenient height. Ensure that all legs of the tripod are secure. The tripod has three leg segments, two of which are extendable. Fully extend segment ②, leaving segment ③ collapsed. Extend segment ③ only if absolutely necessary to achieve the necessary height.

NOTE: If you use a tripod not recommend by FARO, it might be equipped with one or more set screws in the platform. Ensure that the set screws are recessed below the platform. They must not stick up out of the surface.

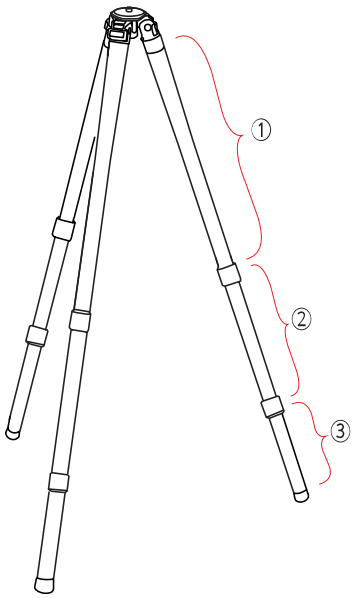
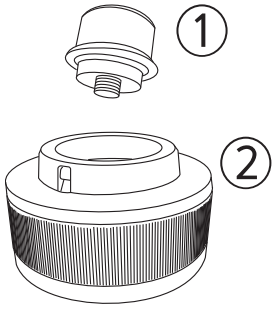


Figure 3-6 Tripod leg extension

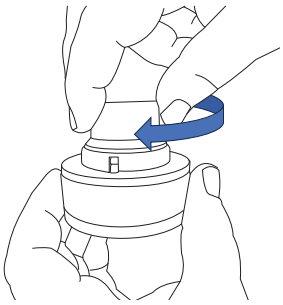
Use the Quick Mount with Blink

CAUTION! Never use the quick mount without the pilot cone. If the scanner is placed on the quick mount without the pilot cone, it can fall and cause serious damage to the scanner or injury to persons near the tripod.

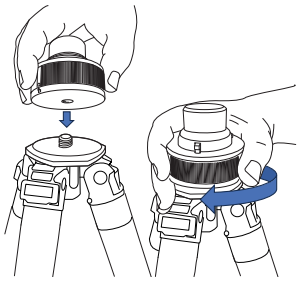
1. You need the pilot cone ① and quick mount ② to use the quick mount with Blink.



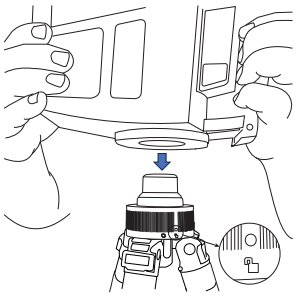
2. Screw the pilot cone into the quick mount. The cone should be hand-tight only—do not use tools.



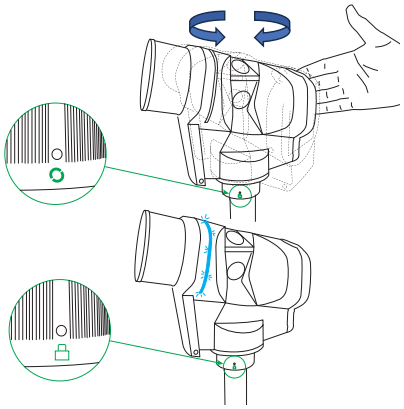
3. Screw the quick mount into the screw on the top of the tripod. It should be hand-tight only—do not use tools.



4. Set the quick mount to unlocked as shown in the picture by turning the knurled center ring. Then place the Blink scanner onto the quick mount.



5. Set the quick mount to *secured* if you want to adjust its position. Set it to locked for scanning. Verify the locked position before you start to scan.



CAUTION! Do not rotate the scanner, powered or unpowered, when the quick mount is locked, as it may damage the pan-axis. To avoid accidentally pinching your fingers, move the quick mount to the secured position if you need to rotate the scanner while it is powered on. *Never move the tripod when the* quick mount *is open or unlocked*! It must always be locked so that the scanner cannot fall from the tripod while moving or scanning.

Attach Your Mobile Device to Tripod

Attach the mobile device to the tripod. This example shows a phone, but a tablet can also be attached in this way.

NOTICE: Clean the mobile device or case with alcohol before applying the adapter.

① Remove the adhesive backing from the Quadlock adapter.

② Press the Quadlock adapter onto your mobile device. Take care to avoid the camera lenses. You may want to put the Quadlock onto a case, rather than directly onto the device.

③ Attach the Quadlock strap mount to the leg of the tripod as shown, then connect the device to the tripod using the Quadlock adapter. Ensure the mount is secure before attaching the device, to prevent it from disconnecting and falling.

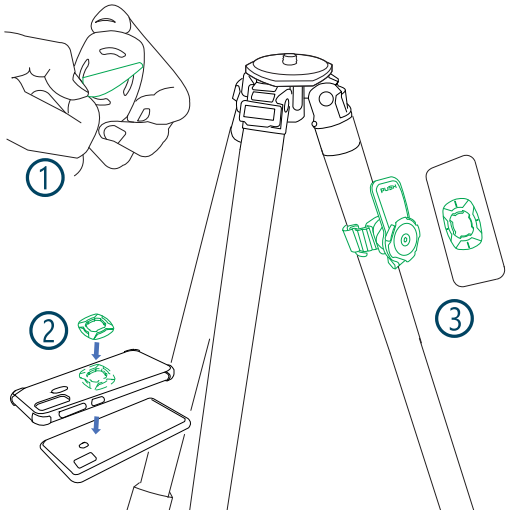


Figure 3-7 Attaching the Quadlock

Connecting Blink with Stream

When you are ready to start scanning, follow the steps below.

1. Insert a fully-charged battery into the scanner.
2. Attach the scanner to a tripod.
3. Turn on the scanner by pressing the power button.

4. On your mobile device, connect to the Blink scanner WiFi. If you are connecting the scanner to the device for the first time, use the QR code on the bottom of the scanner to help you connect to the scanner WiFi.

NOTE: Some mobile devices have low-resolution front cameras that may not scan QR codes well. If you have trouble, flip the device over and use the higher-resolution back camera.

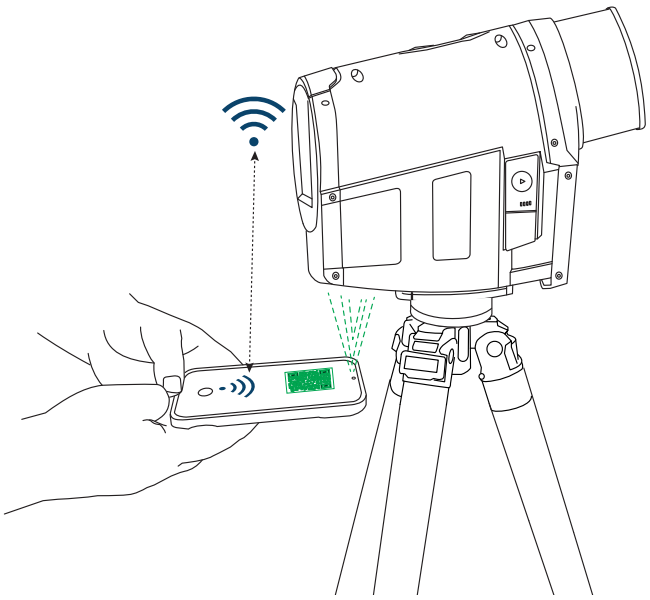


Figure 3-8 Scan the QR code to connect to the Blink WiFi

5. Start the FARO Stream app on your mobile device.

   Stream will automatically search your network for a scanning device. This may take a few of seconds. When Stream connects to your Blink scanner, you will see the following icon at the top of the app . If the scanner doesn't connect automatically, switch to **Device List** to see additional information. If you have connected other scanners to Stream, you may need to select the scanner you want by tapping it in the device list.

6. Tap the Play icon to start scanning.

How To Use The Scanner While Scanning

It is strongly recommended to use the FARO Stream app for scanning (see next chapter). It provides a convenient and efficient way to handle all scanning workflows and requirements and will help you achieve best results.

Before starting a scan, stand with some distance behind the battery compartment and side of the Blink scanner. Watch the scanner when it starts to rotate and slowly walk and turn with the scanner body.

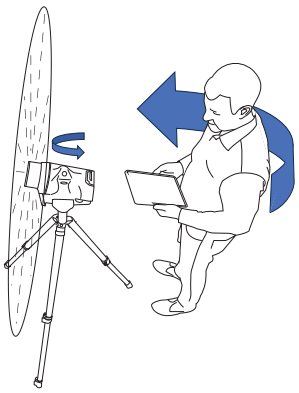


Figure 3-9 Move to avoid being scanned

Always try to stay behind the battery compartment to avoid being in the area of the camera field or the beams of the LiDAR sensor. During a scan (a single 360° rotation) the scanner stops five times to capture photos with the integrated cameras. Make sure you stand away from the field of view of the cameras.

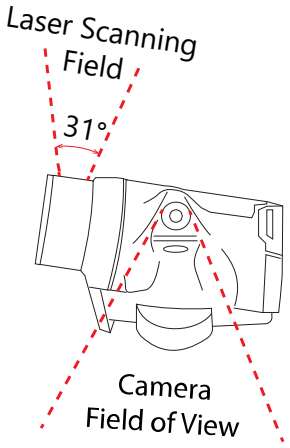


Figure 3-10 Scanning fields

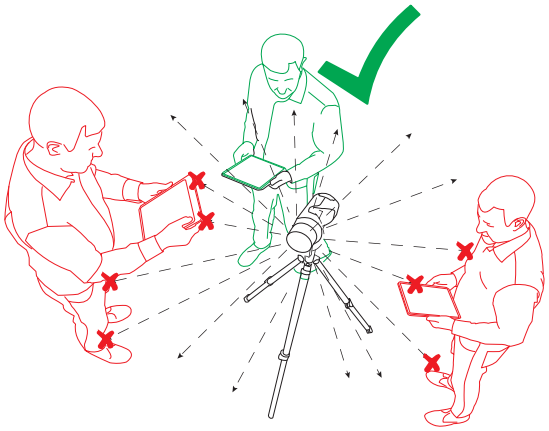


Figure 3-11 Move to avoid being scanned

The integrated LED ring and start scan button will blink during the individual scans.

Moving to the Next Scan Position

Scan projects have multiple scans depending on the area you are scanning. Multiple scans are necessary when you want to capture all sides of an object, if you need to scan multiple rooms, or if the area to scan is too large to capture at one time. For most scan projects, all three of these situations will require you to make scans from many different positions so the software needs to *register* the scans. *Registration is the process*

of aligning multiple scans in a parent coordinate system using reference positions common between scans. References are common points between scans that are used to create a "best-fit" alignment.

To ensure that the software algorithm can successfully register the scans, it is important that the scans have overlapping areas. Stream provides you with visual feedback, a colored ring, to show you if you if you have moved the scanner to an area that has enough overlap, or if you are in a position that will create a scan may be difficult to register. If the indication ring turns yellow, move the scanner towards the last scan until the ring turns blue.

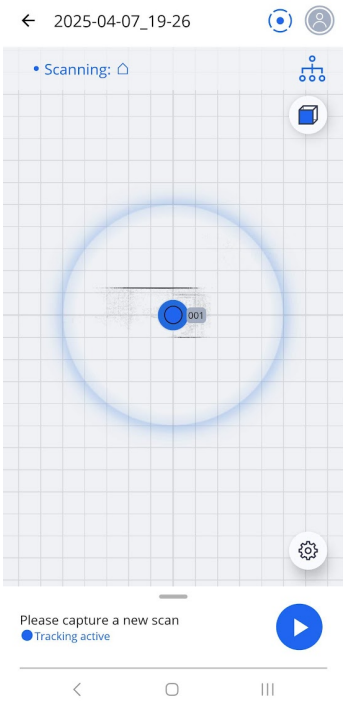


Figure 3-12 First scan finished

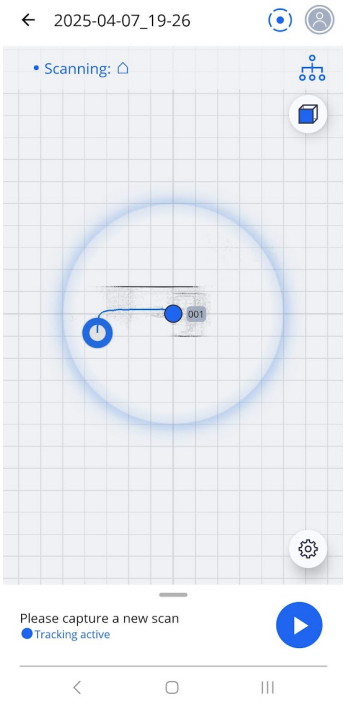


Figure 3-13 Next scan good position

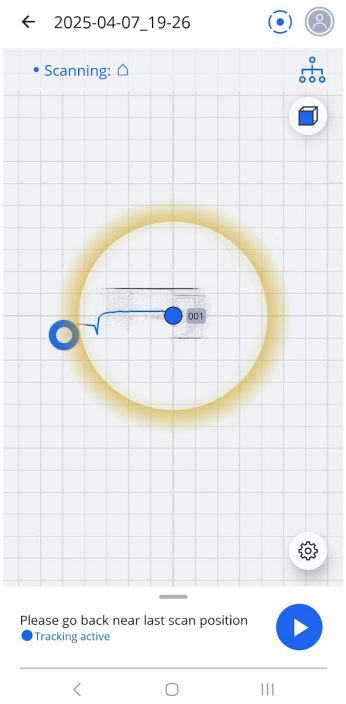


Figure 3-14 Next scan too far

NOTE: Notice that the led ring on the scanner also flashes yellow if the scanner moves too far from the previous scan. This can be helpful if the screen on your mobile device is difficult to see while moving the scanner.

Switching Off the Blink Scanner

It's best to switch off the scanner using Stream, but you can switch it off manually by pressing the power button for about four seconds.

If for some reason the scanner does not react for a longer time, you can perform a hard shutdown by pressing the on/off button about 10 seconds. Note that this can cause data loss.

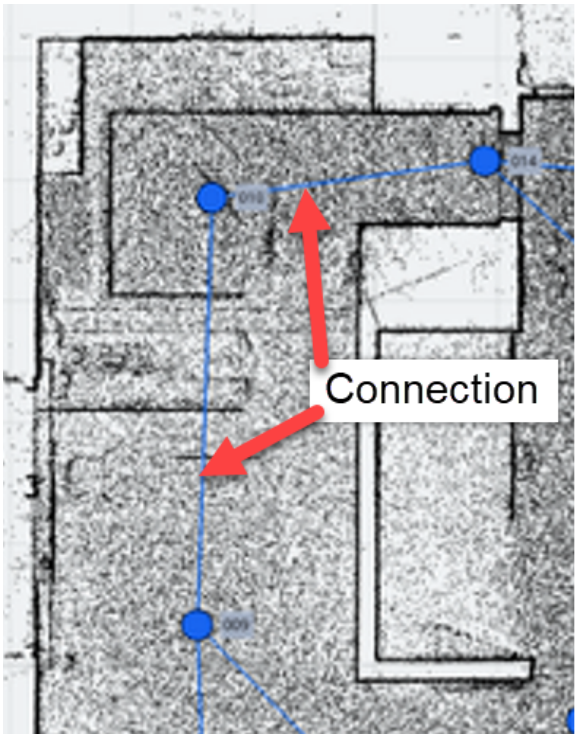
NOTICE: Never switch off the scanner by removing the battery.

To remove the battery:

1. Open the battery compartment cover.
2. Remove the battery.

Making Manual Connections

Connections are the links between scans that are registered. You see them in Stream as straight lines between the scan markers.



You can manually add connections between two scans that were not automatically connected in Stream. This usually occurs when you start a project in one area, and then return to that area later for other scans. Adding a manual connection between the first and last scans when they are close to each other can correct small tracking errors so that areas that are recorded more than once in a single scan are properly positioned.

To add a manual connection:

1. Tap the first scan that you want co connect to open the radial menu.
2. Tap the manual registration icon ( ).
3. Tap the second scan.
   If the registration is successful, you will be notified that the scans are registered and a connection line will appear between the two scans.

NOTE: If the position of one of the scans is changed by the registration, connections to that scan will be broken and need to be connected again by hand.

Using the USB Flash Drive

You can access scan data and log files using the USB flash drive provided with your Blink scanner.

1. Flip up USB cover to access the USB port.
2. Insert the small end of the USB flash drive into the blink scanner. The data transfer will begin automatically. All scan data and all log files will be transferred to the flash drive. The LED ring will flash green while data is being transferred. When the ring shines blue, the transfer is complete.

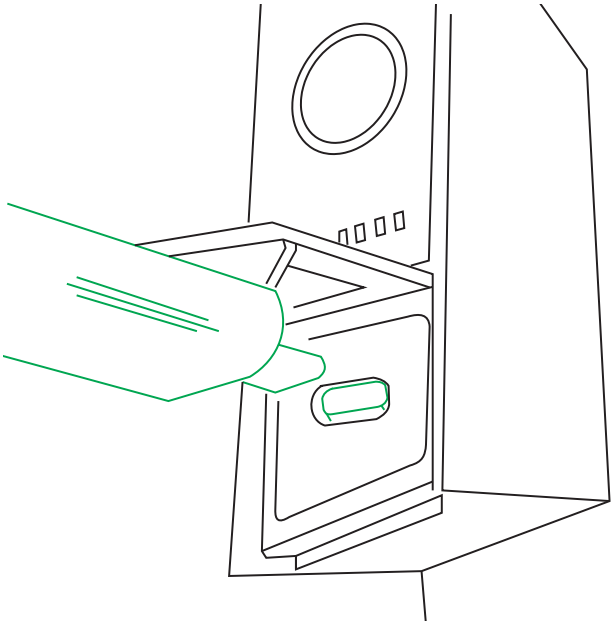


Figure 3-15 Inserting the USB flash drive

NOTE: All data that is on the scanner, but not on the flash drive, will be transferred. After transferring data to the flash drive, consider moving it to a different backup media, and then deleting the information from the scanner. This will reduce subsequent transfer times.

Create a Scan Without Stream

It is recommended to use the Stream app to control the Blink scanner. Stream provides you with visual feedback as you scan, informational messages, easy transfer of data and other helpful features. It is possible, however, to scan without using Stream using the instructions below.

1. Connect the equipment.
2. Turn on the scanner by pressing the power button.
3. When the LED ring indicates that the scanner is ready, press the power button again to start the scan. Do not touch the scanner while it is scanning.

NOTE: Stream is required to create new projects and add certain properties (such as scan name pictures, annotations, etc.) Without Stream, a new project will be created after each reboot with a name automatically created from the current time stamp (YYYY-MM-DD_hh:mm:ss).

Best Practices & Troubleshooting

Preparing to Scan

- For best performance and accuracy, switch the scanner on to warm it up before beginning to scan.
- Identify limitations such as obstructions, power needs, and additional equipment requirements.
- For existing outdoor structures, consider printing a satellite image to help plan your scanning strategy.
- Group areas into scan clusters to simplify registration and localization.
- Assign meaningful names to your projects (e.g., case numbers, client names, street locations).
- Check that the scanner tripod’s legs lock securely and that the scanner attaches correctly.
- Inspect the scanner’s outer casing for any signs of damage or distortion.
- Adjust scanning positions to work around obstructions like trees or columns.
- Choose optimal angles to reduce the total number of scans while ensuring sufficient scan overlap and capturing necessary details.
- Keep both camera lenses, the sensor, and air vents clean.
- Avoid scanning in the rain. Water drops on camera lenses will reduce picture quality and colorization, and may affect the point data that the laser sensor collects.

While Scanning

- Do not scan moving objects, if possible.
- While moving the scanner between scans, move the scanner and tripod smoothly, without fast or jerky movements.
- Use Stream to control the scanner.
- Follow the distance ring guidelines to ensure scans are close enough for automatic registration.
- As the scanner rotates, move to avoid being captured by its cameras and scan head.
- For projects with multiple rooms, scan both sides of doorways for better alignment.

Chapter 4: Using Stream

This chapter explains the details of the Stream app.

Using Stream

Stream is an app for your Apple or Android phone or tablet that enables you to control a FARO Blink scanner, get a real-time view of scan progress as it happens, and upload the project to the cloud.

NOTE: The graphics in this document may look different in your version the Stream app depending on your device and operating system. This document refers to Stream version April 2025.

Requirements

To use FARO Stream you need the following:

- A recent, high-end phone or tablet with Android 13 (or higher) or iOS 18 (and higher) with a minimum of 64 GB of storage capacity and 8 GB RAM. We recommend 25 GB and 16 GB RAM for larger scan projects. (Phones and tablets are referred to in this document as *mobile devices*.)
- A FARO Blink scanner.
- The FARO Stream app.

Recommended

- A FARO Sphere XG account.
- High-speed wireless network access.

NOTE: Before starting a scan project, ensure that your mobile device and scanner batteries are fully charged. For larger projects, we recommend that you use an off-the-shelf power bank to ensure that your phone or tablet has power for the entire working day.

Download the App

You need the app to use the Stream workflow. Use the instructions below to install the app.

1. On your mobile device, open Google Play or the Apple App Store.
2. Download and install the FARO Stream app, provided by FARO Technologies Inc.

Always check to ensure that you have the most recent version of the app, and the scanner firmware that the app requires. You can find this information on the app's page in Google Play or the Apple App Store.

Sign up for a FARO Sphere XG account

Although you can use Stream without a FARO Sphere XG account, Sphere XG allows you to modify and share your project in the cloud. If you don't use Sphere XG you will need SCENE, FARO's desktop software to work with your scans.

To sign up for Sphere XG:

Scan the QR code below or enter https://www.holobuilder.com/free-trial/ in a browser and follow the instructions.

Stream Icons

The icons that you see in Stream depends on the scanner that is connected. You will only see a subset of these icons.


About


Account / Settings (If you have an avatar in Sphere XG, it is shown in place of this icon when you are connected.)


Add item to scan


Battery state of the connected scanner


Cluster, active


Cluster contains a mix of visible and hidden.


Cluster , inactive


Dataview locked


Dataview move


Delete


Edit


Log file

More options


Move object


Refresh


Registration, align


Root cluster of project.


Scan profiles, scan settings


Scan control, start


Scan control, stop


Scan marker unlocked


Scan marker: active scan


Scan marker: currently streaming


Scan marker: inactive


Scan marker: last scan registered


Scan status: hidden


Scan status: visible


Scanner connected


Scanner error


Scanner not connected


Scanner warning


Settings


Structure view


Take a picture


Upload project


View front (active)


View side (active)


View top (active)

Radial Menu

The radial menu appears when you tap the scan marker's position in the Data View. It displays icons that allow you to perform different tasks. The icons may be different depending on the situation. Here are some of the icons you may encounter:

Manual registration.

See, *Add an Annotation* on page 34.

Lock or unlock the scan's position in relation to other scans in the project. Subsequent unlocking of multiple scans will add them to the group of unlocked scans.

Tap to delete the selected scans. Note that deleted scans **cannot** be restored.

Toggle the visibility of the point-cloud data for this particular scan. You can change the visibility of hidden scans later in the Structure View. Hidden scans are not used during registration.

Other Tasks

This section describes more about what you can do with the Stream app.

Add an Annotation

An annotation is text or graphics or both, that you add to a scan to provide additional information. You might want to include a photograph of a floor plan, the expiration date on a fire extinguisher, or text describing something about the area being scanned that cannot be captured by the scanner.

1. Tap in the radial menu.
2. In the **Annotation** field, give the annotation a name.
3. In the **Description**, add whatever text is you need for the annotation.
4. Add an existing picture from your mobile device, or make a new picture.
5. Tap the check mark to save the annotation or X to cancel.

You can add multiple annotations to a scan by repeating the above mentioned procedure.

Edit an Existing Annotation

To edit an existing annotation or add annotations after scanning:

1. Navigate to the scan list (tap the project name,).
2. Tap the specific scan. This will open a list with existing annotations.
3. Tap the annotation to edit. You can tap to create a new annotation.

Modify Project Properties

A *project* is the top-level container for all the scans and related information about the site you are scanning.

To see all projects:

1. Tap to return to the Projects view. A list with all known projects on the connected scanner and the Blink app will open.
2. Tap for the project you want to modify, then tap to open the individual project settings.

Remember that changing or deleting a project in the app will also change or delete the project on the connected scanner (and also when the scanner is reconnected at a later time.)

Structure View / Add Clusters

The Structure view provides an overview about your current active scan project. Tap to open the Structure View. Here you are able to add and manipulate clusters and scans.

A *cluster* is an organizational unit that lets you group scans together—much like data files in a folder. If you put related scans that have good overlapping areas into a cluster, it improves the accuracy of registration. Managing larger projects with clusters also helps you to improve the overall performance of Stream (and registration) by hiding or showing only certain clusters. You can click a cluster eye icon to hide/show the complete cluster.

You can create and access clusters via the Structure View ( ).

The Structure View page displays the structure of your scan projects. A scan project usually consists of a main project that has several sub-projects called clusters. For example, if you are scanning a multi-level building as a project, each floor of this building might represent one cluster, and each of these floors or clusters can have further clusters, for rooms.

The structure of a scan project is similar to this:

- Office building
  - Floor 1
    - Room 1
    - Room 2
    - Room 3
  - Floor 2
    - Room 1
    - Room 2

Before starting a scan project, you can manually enter this structure here.

Once the project structure has been created, assign the single scans to the corresponding clusters. To do this, select the active cluster (see below) before starting a scan. This cluster should correspond to the current scanner position. For example, if you take scans in the office building on Floor 2, in Room 2, select *room 2* from the cluster list, then start taking the scans in that room. The next scans are then assigned to the selected cluster or sub-project *room 2* until you select another cluster. This information is attached to each scan. It helps SCENE automatically assign scans to scan clusters, thus automating the scan registration. For more information on scan registration and assigning scans to scan clusters, see the SCENE user manual. Tap the topmost cluster “Root” ( ) to disable any sub-cluster.

The active cluster doesn’t activate the visible cluster. To show or hide individual scans or complete clusters tap and toggle the button.

Tap the > icon (or down arrow) to expand or collapse specific clusters.

NOTE: In Stream versions before 4.0.0, it was not possible to use clusters with the same names in a project or different projects. This limitation of unique cluster names was eliminated with Stream 4.0.0. However, when reusing cluster names it may happen that scan names automatically increase the index numbers, so scan names will not have sequential indexes.

Select the Active Cluster

You can designate a cluster as the *active cluster*. This is the cluster to which new scans are automatically added. Note that only one cluster can be designated as the active cluster. To choose an active cluster, do the following.

1. Open the structure view ( ).
2. Tap the cluster icon that you want to designate as the active cluster.

You will see a blue dot in the cluster icon of the cluster you chose.

Workflow to Switch Between Clusters

1. Make scans in the first cluster until your last scan for that cluster is completed.
2. Switch to the next cluster and perform the next scan in this cluster. Make sure the cluster and last scan for registration is visible. To hide or show scans toggle visibility with the button in Structure View. If scanning different rooms we recommend that you perfrom the last scan right *before* the door frame, then switch to the new cluster and perform the next scan right *after* the door frame. This guarantees both scan have maximum overlap for successful registration.

   NOTE: In some cases it might be required to manually register a scan in a new cluster to the last scan from the previous cluster.

3. Tap the scan marker of the new scan and select the manual registration icon to register this scan.
4. Repeat as necessary for each new cluster.

To add clusters to a project with existing scans:

1. Open the Structure View and swipe the topmost entry (the root) to the left or press the … button. Tap the Plus button to create a child cluster.
2. Enter a name for the cluster.
3. Tap ✓ to create the cluster or ✕ to cancel.

To move scans or clusters to another cluster tap **Select** and mark the scans or clusters. Select the move icon ( ) and then tap the name of the specific new cluster.

NOTE: The Data View will only show the visible scans and clusters which are indicated by the eye symbol in the Structure View. (The scan markers remain visible for hidden scans.)

Activate the eye icon of the root if you need to display all clusters. Activate this top cluster to show all clusters and related scans.

NOTE: If you experience a low performance and lagging in the Data View, hide individual clusters which are not required to complete your scan job. For larger projects, we recommended that you display only individual clusters to improve the graphical performance of your mobile device. Showing a large number of scans may decrease the visualization speed on your device and cause lag in the view. In the Data View Settings (see Data View Settings) you have further options to improve the performance of your device.

Sync Project to Sphere XG

Sphere XG is FARO's cloud solution. By syncing your project to Sphere XG, you put your project in the cloud where you can evaluate and share it.

Before the upload to Sphere XG cloud can start, the full-resolution scans must be transferred from the Blink scanner to Stream.

NOTE: Note: A Blink project can be very large. Your smart device needs to have enough storage space to temporarily store the project until it is uploaded. (A single Blink scan is about 300 MB, so a project with 10 scans will have about 3 GB. A project with 100 scans will have about 30 GB.

To sync a project from the scanner to your mobile device:

1. Ensure that your mobile device is connected to the scanner's WiFi network.
2. From the Projects screen, tap ⋮, then ☁↑. A window appears with the notice "Transfer the project to your smartphone."
3. Tap **Transfer the Data**. The project will be transferred to the Stream app.

After the full scan download from the scanner to Stream is completed, you can disable the connection to the scanner.

To sync a project from your mobile device to Sphere XG:

NOTICE: Projects can be very large, consisting of hundreds of gigabytes. Make sure that your Internet connection is unmetered before you upload.

1. Login to Sphere XG
   a. Tap the account icon to open the side window, then tap again.
   b. Tap **Login**.
   c. Select your server .
   d. Enter your account information.

To sync a project to Sphere XG:

1. Ensure that you have an Internet connection and are logged into your FARO Sphere XG account.
2. From the Projects screen, tap ⋮, then ☁↑. A window appears with the notice "Upload project to the cloud."
3. Select the group where you want to upload the project, then tap **Upload**.
4. A dialog will open with progress bars for the upload. For best performance keep the Stream app in the foreground until the upload completes.

After the upload is completed, the app can be closed.

Remember that larger projects can take up significant memory on your phone or tablet. Be sure to delete completed projects from the Stream app to free up space on your device.

Deleting Scans and Projects

When deleting a project or individual scans from Blink, both the projects and the individual scans are automatically removed from the connected scanner's storage. This deletion process continues even if the mobile device is not actively connected to Blink during the deletion, as long as it reconnects later. This means that any deletions made to projects or scans in Blink will automatically synchronize with the scanner.

NOTICE: It's crucial to be aware of this automatic synchronization between Blink and the mobile device as it could potentially result in data loss. We strongly advise you to back up or transfer your data manually before deleting anything in Blink to avoid accidental data loss. However, to improve the overall performance of the devices, it is strongly recommended to backup all projects and then delete them from Stream and the scanner after a project is complete.

Blink Device Settings

WiFi

- Mode
- WiFi Region Restriction (Regulatory Domain)

NOTE: Some scanners do not have a predefined WiFi region. By default, they are limited to the slower 2.4 GHz band to comply with local regulations, regardless of where they are used. You can set the WiFi region to match your location. If local regulations permit, the scanner will then be able to use the faster 5 GHz band. To set the region, tap Regulatory Domain and select the country where you are operating the scanner.

- IP address

Device Details

- Name
- Model
- Scanner Serial Number
- Firmware Version

Log Files

Data View Settings

Tap the settings icon ( ) at the bottom of the screen to open the Data View Settings panel. Here, you can adjust how the scans appear in the Data View.

- **Scan markers and labels**
  - Last scan: only last scan that was registered.
  - Visible scan: only scan marker of visible scans.
  - Active cluster: only scan marker from active cluster.
- **Scan name length**
  Choose whether you want to see the full scan name or only the last three digits of the name.
- **Registration connections**
  Enable this setting to see connections between scans that are calculated by registration algorithms.
- **Performance**
  Depending on the computing power of your device and the number of scans in your project, you may want to restrict the number of scans that are shown in the Data View.

  Show latest: Use the slider to adjust the number of visible scans. Scans will be shown in reverse chronological order up to the number of scans you select here.

  Prioritize active cluster
  When selected, the scans in the active cluster are prioritized for viewing when **Show latest** is selected under Performance. When deselected, the latest scans are shown, regardless of whether they are in the active cluster.
- **Scanning Guidance**
  - **Show guidance ring**: here you can toggle the scan guidance ring on and off. The ring changes color to show you when you have moved so far from the previous scan that registration may be difficult.

App Log File

Stream provides access to log files that contain information which can be helpful if it becomes necessary for FARO Support to diagnose issues with Stream or your scanner.

To see the most recent logfile, or to download all logfiles, tap > App Log File.

App Settings

Use the Setting page to change various defaults in the app.

Tap , **Account** and adjust the settings for your situation.

Display Settings
Switch Dark Mode on or off. Using Dark mode may prolong the life of the battery in the device where you are running the Stream app.

Language Settings
Select the language you would like the interface to display.

Automatic Firmware Download
Choose whether you want to download firmware whenever an Internet connection is available, only via a wireless network, or never.

Registration Settings
Set the **Manual Registration Distance Limit**. This limits the amount that the algorithm can move a scan during manual registration. For large scan projects where you need to zoom out to see where a scan fits into the project, limiting the distance that you can manually move the scan may prevent you from accidentally moving the scan far from its intended position.

Set the **Manual Registration Angle Limit**. This limits the amount that the algorithm can rotate a scan during manual registration. For large scan projects where you need to zoom out to see where a scan fits into the project, limiting the distance that you can manually rotate the scan may prevent you from accidentally rotating the scan far from its intend position.

Unit Settings
Choose feet or meters as your unit of length.

Notifications
Choose how you want to be notified that the scanner has finished scanning and can be moved. You can select a vibration (if your device supports vibration) or a sound notification.

Data Transfer Settings
Choose whether to automatically download scan data when opening existing projects. Downloading larger projects can take a significant amount of time if the project was not captured on the mobile device that is currently being used. The newest scans are downloaded first.

Automatic Firmware Download
Indicate if you want to automatically download new firmware for the device when it becomes available

Usage Analytics
Decide whether to help FARO improve Stream by sending us anonymous usage data. We encourage you to enable this option. This will help us to improve our app features and scanner settings. No project data or scans are transferred to FARO.

Upgrade Firmware

Occasionally, FARO provides firmware upgrades for Stream-supported scanners to add support for new features, improve performance, and fix problems. To be notified about firmware updates and to download them, use the following procedure:

1. In the *App Settings* on page 40 set **Automatic Firmware Download** to always or only when connected to WiFi. You only need to do this once. Note that firmware files are large and you may be charged for the data download by your mobile Internet provider, depending on your data plan.

2. When new firmware is available, Stream will notify you. You may need to switch to a WLAN network with Internet connectivity, depending on your settings.

3. When the download is complete, switch back to the device's WLAN. Stream will search for your FARO scanner.

Update Blink Firmware

1. Switch on the scanner and connect to Stream. When Stream connects to scanner, you will see a message informing you that firmware is available.

NOTICE: Before upgrading firmware, ensure that the scanner battery and your mobile device are both fully charged to ensure that the devices do not lose power during the upgrade. Loosing power during an upgrade could damage your device.

2. Tap **Install** to begin the installation process. The LED ring will begin to quickly flash white.

NOTICE: Do not remove the battery from the scanner or switch off your mobile device during installation. Doing so could damage your device.

3. During installation, the Blink WiFi network will go offline. When it reappears, the upgrade is complete.

4. Restart the scanner. Check your network settings and reconnect when it is available.

NOTE: You can check your firmware version in Stream by checking under **Available Devices**.

Chapter 5: Maintenance

The device is a precision instrument that contains many sensitive components, and it must be handled with care. Follow these procedures to prevent problems with your system:

- Store the scanner and accessories in its transport case when not in use.
- Protect the devices from shaking, shocks, vibration, and large variations in temperature.
- Check the cable for damage to outside insulation, connectors, and pins.
- Check the housing of the scanner for damage.

We recommend that you check your scanner at least once a month. This allows you to spot trouble before it starts, and provides you with an efficient measuring system.

- Check the cables for damage to outside insulation, connectors, and pins.
- Check the housing and the connectors of the battery for damage.
- Do not lubricate the Blink scanner.

If the housing of the device becomes dirty or dusty, clean it with a soft dry cloth. If necessary, dampen the cloth with isopropyl alcohol. Always remove the battery before cleaning with alcohol.

Transport

The following precautions must be taken when transporting the laser scanner equipment:

- The scanner must be transported in a transport case.
- The scanner must be turned off during transportation or shipping.
- When carrying the scanner, be careful not to drop it. Strong impact can seriously damage the laser scanner, and render it incapable of proper operation.
- Carry the laser scanner separately from its equipment or, for optimal protection, use the original transport case.
- When shipping and transporting the laser scanner by rail, sea, air, or road, use its original transport case and a suitable outer cardboard box for optimal protection against shock and vibration.

- The Blink batteries are lithium-ion batteries and are thus classified as dangerous goods. When transporting or shipping the Blink batteries, ensure that you observe all applicable local and international rules and regulations. For further information, contact your local carrier before transportation or shipping.
- For lithium-ion batteries with less than 100 Wh energy content, an exemption is provided that allows you to carry such a battery without further paperwork. The maximum battery energy a single person can carry on an airplane is 200 Wh.

Ensure that the total energy content of all batteries that any individual person carries on an airplane is less than 200 Wh, and that no single battery has more than 100 Wh energy content. Review currently applicable national and international regulations for transport of Li-On batteries and also verify with your airline or freight company in advance.

NOTE: One fully-charged battery does not exceed 100 Wh.

Storage

Pack the devices in the transport case to protect them from environmental hazards.

Store in an environment with the following characteristics:

- low humidity level
- relatively stable temperature
- no extreme temperatures
- no extreme environmental conditions (dust, dirt, etc.)
- no heavy vibrations

CAUTION! Do not run the scanner when it is in the case.

Chapter 6: Blink Technical Data

General

Power supply voltage	14.4 V, DC (internal battery)
Power consumption	Max. 50 W
Typical battery operation time	About 3 hours
Weight (with battery)	3.5 kg (7.5 lbs)
Size	280 x 110 x 220 mm (11 x 4.3 x 8.67 in)

Ports ⚠

USB C port Supports USB 3	Rating voltage: 5 V, DC Power: max. 5 W

Interfaces

Wireless Communication	IEEE 802.11 ac/a/b/g/n 2x2 MIMO, as access point (2.4 or 5 GHz)

3D Scanning

Scan time	< 30 seconds
3D points per scan	up to 50 million
Range	0.5 m - 80 m (1 ft, 7.69 in - 262 ft, 5.61 in.)
3D accuracy at 10 m (32 ft 9.7 in)	4 mm (0.16 in)

Laser (Optical Transmitter)

Laser class	Laser class 1
Wavelength	905 nm

Data Handling and Control

Data storage	SATA 3.0 SSD 512 GB[1]
Device control	WiFi connection to app on mobile device.

Color Unit

Raw image Resolution	125 megapixels

Ambient Conditions

Operating temperature	+5 °C to +40°C (+41 °F to +104 °F)
Storage temperature	-10 °C to +60 °C (+14 °F to +149 °F)
Environment	Indoor and temporarily outdoor use, pollution degree 2
Humidity	Non-condensing, max. 95% relative humidity
Altitude	< 5000 m (16404 ft)
IP rating of the device when powered in an upright position and battery cover closed.	IP54

Blink LED Codes

The table below explains the meaning of the colors and blink patterns of the ring and power LED.

[1]Some of this space is reserved for the device's software and is not available for scan projects.

Color / Pattern	Functionality	LED
Blue, no blink	Ready to scan	Ring and power
Blue, rotating	SLAM tracking quality Good	Ring only
Blue, rotating with yellow blink	Overlap with previous scan low. Perform a stationary scan	Ring only
Blue, slow blink	3D scanning in progress	Ring and power
Green, fast blink	USB-C export	Ring and power
Red, fast blink	USB drive full	Ring and power
Red, no blink	System failure. See Stream for error message.	Ring and power
White, fast blink	Firmware update is running	Ring only
White, slow blink	Shut-down or startup	Ring and power
Yellow/Red, rotating	SLAM tracking weak. Make a stationary scan.	Ring only
LED off (during scanning)	Color capture in progress	Ring and power

Power Dock LED Codes

When the Power Dock is connected to the power source, its LED displays the charging state as described in the table below. (Blinking = charging. Not blinking= not charging.)

Color	State
Violet blinking	Battery charging. Charge at < 5%
Red blinking	Battery charging. Charge at 5% - 15%
Orange blinking	Battery charging. Charge at 15% - 25%
Yellow blinking	Battery charging. Charge at 25% - 95%
Green blinking	Battery charging. Charge at >95%
Green	(fully charged) ~100%
White	no battery
Cyan blinking quickly	error

Maintenance of the Power Dock

The Power Dock does not require much maintenance. If the charger becomes dirty or dusty, clean it with a soft dry cloth. If necessary, dampen the cloth with isopropyl alcohol. Always unplug the Power Dock and remove the battery before cleaning with alcohol. Be cautious and do not damage or bend the connectors.

Appendix A: Technical Support

FARO Technologies, Inc. is committed to providing the best technical support to our customers. Our Service Policy is detailed under Industrial Service Policy in this the user manual. If you have any difficulties using one of our products, follow these steps before contacting our Technical Support Team:

- Be sure to read the relevant sections of the documentation.
- Visit the FARO Customer Care area on the Web at www.faro.com to search our technical support database. This is available 24 hours a day 7 days a week.
- Document the problem you are experiencing. Be as specific as you can. The more information you can give us, the easier the issue is to solve.
- If you still cannot resolve your issue, have your device's serial number available before calling.
- Emails or faxes sent outside regular working hours are usually answered before 12:00 noon the next working day. If our staff are on other calls, leave a voice mail. Calls are always returned within 24 hours on business days. Remember to leave a detailed description of your difficulty along with your device's serial number. Do not forget to include your name, email, and telephone number with extension, so we can promptly reach you.

North America	Support Hours (Monday through Friday) 8:00 a.m. to 7:00 p.m. Eastern Standard Time (EST) Email: support@faro.com Phone: +1 800 736 2771, +1 407 333 3182 (Worldwide) Mexico: 866-874-1154 Fax: +1 407-562-5294
Europe	Support Hours (Monday through Friday) 8:00 a.m. to 5:00 p.m. Central European Standard Time (CET) Email: support.emea@faro.com Phone: +800 3276 7378, +49 7150 9797 400 (Worldwide) Fax: +800 3276 1737, +49 7150 9797 9400 (Worldwide)
Asia	Support Hours (Monday through Friday) 8:30 a.m. to 5:30 p.m. Singapore Standard Time (SST) Email: supportap@faro.com

	Phone: +1 800 511 1360, +65 6511 1350 (Worldwide)
	Fax: +65 6543 0111 Support Hours (Monday through Friday)
	9:00 a.m. to 5:00 p.m. Japan Standard Time (JST)
Japan	Email: supportjapan@faro.com
	Phone: +81 561 63 1411 (Worldwide)
	Fax: +81 561 63 1412 Support Hours (Monday through Friday)
	8:30 a.m. to 5:30 p.m. China Standard Time (CST)
China	Email: supportchina@faro.com
	Phone: +400.677.6826
	Fax: +86 21 6494 8670 Support Hours (Monday through Friday)
	9:30 a.m. to 5:30 p.m. India Standard Time (IST)
India	Email: supportindia@faro.com
	Phone: 1800.1028456
	Fax: +91 11.4646.5660

Appendix B: Software License Agreement

This Software License Agreement is part of the Operating Manual for the product and software system for which you have purchased from FARO (collectively, the "Licenser"). With your use of the software, you are agreeing to the terms and conditions of this Software License Agreement. Throughout this Software License Agreement, the term "Licensee" means the owner of the System.

I. The Licenser hereby grants the Licensee the non-exclusive right to use the computer software described in this Operating Manual (the "software"). The Licensee shall have no right to sell, assign, sub-license, rent or lease the software to any third party without the Licenser's prior written consent.

II. The Licenser further grants the Licensee the right to make a backup copy of the software media. The Licensee agrees that it will not decompile, disassemble, reverse engineer, copy, transfer, or otherwise use the software except as permitted by this section. The Licensee further agrees not to copy any written materials accompanying the software.

III. The Licensee is licensed to use the Software only in the manner described in the Operating Manual. Use of the Software in a manner other than that described in the Operating Manual or use of the software in conjunction with any non-Licenser product which decompiles or recompiles the software or in any other way modifies the structure, sequence or function of the software code, is not an authorized use, and further, such use voids the Licenser's set forth below.

IV. The only warranty with respect to the software and the accompanying written materials is the warranty, if any, set forth in the Quotation/Purchase Order and *Purchase Conditions* on page 52 pursuant to which the software was purchased from the Licenser.

V. THIS WARRANTY IS IN LIEU OF OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SOFTWARE AND WRITTEN MATERIALS. IN NO EVENT WILL THE LICENSER BE LIABLE FOR DAMAGES, INCLUDING ANY LOST PROFITS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE SOFTWARE, NOTWITHSTANDING THAT THE LICENSER HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, THE LICENSER WILL NOT BE LIABLE FOR ANY SUCH CLAIM BY ANY OTHER PARTY.

VI. In the event of any breach by the Licensee of this Agreement, the license granted hereby shall immediately terminate and the Licensee shall return the software media and all written materials, together with any copy of such media or materials, and the Licensee shall keep no copies of such items.

VII. The interpretation of this Agreement shall be governed by the following provisions:

A. This Agreement shall be construed pursuant to and governed by the substantive laws of the State of Florida (and any provision of Florida law shall not apply if the law of a state or jurisdiction other than Florida would otherwise apply).

B. If any provision of this Agreement is determined by a court of competent jurisdiction to be void and non-enforceable, such determination shall not affect any other provision of this Agreement, and the remaining provisions of this Agreement shall remain in full force and effect. If any provision or term of

this Agreement is susceptible to two or more constructions or interpretations, one or more of which would render the provision or term void or non-enforceable, the parties agree that a construction or interpretation which renders the term of provision valid shall be favored.

C. This Agreement constitutes the entire Agreement, and supersedes all prior agreements and understandings, oral and written, among the parties to this Agreement with respect to the subject matter hereof.

VIII. If a party engages the services of an attorney or any other third party or in any way initiates legal action to enforce its rights under this Agreement, the prevailing party shall be entitled to recover all reasonable costs and expenses (including reasonable attorney's fees before trial and in appellate proceedings).

Appendix C: Purchase Conditions

All Purchase Orders (hereafter, the "Order") for FARO-provided products and services (hereafter, the "Product") are subject to the following terms and conditions, which are agreed to by the Purchaser. All capitalized terms are defined in Section *8.00 Definitions* on page 56 hereafter.

1.00 Payment of Purchase Price

1.01 Purchaser hereby promises to pay to the order of FARO all deferred portions of the Purchase Price, together with interest on late purchase price payments payable at 1.5% per month (18% per annum).

1.02 The Purchaser grants to FARO a security interest in the products sold pursuant to the Order, which may be perfected by UCC-1 Financing Statements to be recorded in the applicable County of the Purchaser's business location and filed with the Secretary of State's Office, which security interest will remain in effect until payment in full of the purchase price together with interest on late purchase price payments payable thereon had been received by FARO.

1.03 If the Purchaser fails to make full payment of the purchase price within the period set out in the Order, FARO shall at its option have the following remedies, which shall be cumulative and not alternative:

a) the right to cancel the Order and enter the Purchaser's premises to re-take possession of the Product, in which event the Purchaser agrees that any down-payment or deposit shall be forfeited to FARO, as liquidated damages and not as a penalty, and all costs incurred by FARO in connection with the removal and subsequent transportation of the Product shall be payable by the Purchaser upon written demand;

b) the right to enter the Purchaser's premises and remove any Software, components of the Product or other items necessary in order to render the Product inoperative;

c) the right to withhold all services which would otherwise be required to be provided by FARO pursuant to the Warranties set out in Section *4.00 Warranties and Limitation of Liability* on page 53 hereof;

d) terminate any existing software license agreement and

e) pursue any other available remedy, including suing to collect any remaining balance of the purchase price (i.e., accelerate the payment of the purchase price causing the entire balance to immediately become due and payable in full).

f) Customer will be charged a 20% restocking fee for refusal to accept equipment as delivered. Equipment must be returned unopened within 10 business days of receipt at customer facility.

1.04 If Purchaser fails to make payment(s) in accordance with the terms of this Order, the Purchaser's Products may be rendered inoperable until such payment terms are met.

No waiver by FARO of its rights under these conditions shall be deemed to constitute a waiver of subsequent breaches or defaults by the Purchaser. In the event more than one Product is being purchased pursuant to the Order, unless otherwise set forth herein, each payment received by FARO from Purchaser

shall be applied pro rata against the cost of each product rather than being applied to the purchase price of any product.

2.00 Delivery and Transportation

2.01 Delivery dates are estimates and not guarantees, and are based upon conditions at the time such estimate is given.

2.02 FARO shall not be liable for any loss or damage, whether direct, indirect or consequential, resulting from late delivery of the Product. The Purchaser's sole remedy, if the Product is not delivered within 90 days of the estimated delivery date, shall be to cancel the Order and to recover from FARO without interest or penalty, the amount of the down-payment or deposit and any other part of the purchase price which has been paid by the Purchaser. Notwithstanding the foregoing, such right of cancellation shall not extend to situations where late delivery is occasioned by causes beyond FARO's control, including, without limitation, compliance with any rules, regulations, orders or instructions of any federal, state, county, municipal or other government or any department or agency thereof, force majuere, acts or omissions of the Purchaser, acts of civil or military authorities, embargoes, war or insurrection, labor interruption through strike or walkout, transportation delays and other inability resulting from causes beyond FARO's control to obtain necessary labor, manufacturing facilities or materials from its usual sources. Any delays resulting from such causes shall extend estimated delivery dates by the length of such delay.

2.03 Responsibility for all costs and risks in any way connected with the storage, transportation, and installation of the Product shall be borne entirely by the Purchaser. If any disagreement arises as to whether or not damage to the Product was in fact caused in storage, transit or on installation, the opinion of FARO's technical advisors, acting reasonably, shall be conclusive.

3.00 Installation and Operator Training

3.01 The Purchaser shall be responsible for installation of the Product, including, without limitation, the preparation of its premises, the uncrating of the Product and setting up of the Product for operation. Purchaser may elect to order contract services from FARO to perform this service should they elect to do so.

4.00 Warranties and Limitation of Liability

4.01 FARO warrants that (subject to Section 4.06), the Product shall be free from defects in workmanship or material affecting the fitness of the Product for its usual purpose under normal conditions of use, service, and maintenance. A complete statement of FARO's maintenance/warranty service is set forth in *Purchase Conditions* on page 52.

4.02 FARO warrants that the Software shall operate according to specifications and the System shall operate and perform in the manner contemplated in connection with the usual purpose for which it is designed.

4.03 The maintenance/warranty set out in paragraphs 4.01 shall expire at the end of the twelve (12) month period commencing on the date of shipment from the FARO factory (the "Maintenance/Warranty Period").

4.04 Subject to the limitations contained in Section 4.06, the Warranties shall apply to any defects found by the Purchaser in the operation of the Blink and reported to FARO within the Maintenance/Warranty Period. If the Blink or the Software is found by FARO, acting reasonably, to be defective, and if the defect is acknowledged by FARO to be the result of FARO's faulty material or workmanship, the Blink will be repaired or adjusted to the extent found by FARO to be necessary or at the option of FARO, replaced with a new Blink or parts thereof at no cost to the Purchaser.

4.05 Claims under the Warranties shall be made by delivering written notice to FARO of the defect in the System, the Blink. Within a reasonable time of receipt of such notice, FARO shall have the System and

Blink diagnosed by its service personnel, and maintenance/warranty service will be provided at no cost to the Purchaser if the System and Blink is found by FARO to be defective within the meaning of this Section.

(If, in the reasonable opinion of FARO after diagnosis of the system and the Blink are not defective, the Purchaser shall pay the cost of service, which shall be the amount that FARO would otherwise charge for an evaluation under a non-warranty service evaluation.

4.06 The Warranties do not apply to:

a) Any defects in any component of a System where, if in the reasonable opinion of FARO, the Blink, Software or System has been improperly stored, installed, operated, or maintained, or if Purchaser has permitted unauthorized modifications, additions, adjustments, and/or repair to any hard drive structure or content, or any other part of the System, or which might affect the System, or defects caused or repairs required as a result of causes external to FARO workmanship or the materials used by FARO. As used herein, "unauthorized" means that which has not been approved and permitted by FARO.

b) The Warranties shall not cover replacement of expendable items, including, but not limited to, fuses, diskettes, printer paper, printer ink, printing heads, disk cleaning materials, or similar items.

c) The Warranties shall not cover minor preventive and corrective maintenance, including, but not limited to, replacement of fuses, disk drive head cleaning, fan filter cleaning and system clock battery replacement.

d) Any equipment or its components which was sold or transferred to any party other than the original Purchaser without the expressed written consent of FARO.

4.07 Factory Repairs

a) IF SYSTEM IS UNDER MAINTENANCE/WARRANTY: The Purchaser agrees to ship the Product to FARO in the original packing containers. FARO will return the repaired or replacement Product. FARO will incur the expense of the needed part and all return shipping charges to the Purchaser. FARO may authorize the manufacturer of a component of the Product to perform the service.

b) IF SYSTEM IS UNDER PREMIUM SERVICE PLAN: When practical and subject to availability, FARO will make available to the Purchaser substitute component parts or Blink’s ("Temporary Replacements") while corresponding parts of the Purchaser’s system or Blink are undergoing repair at FARO’s factory. Shipping charges for these "Temporary Replacement" parts or Blink’s will be the responsibility of FARO.

c) IF SYSTEM IS NOT UNDER MAINTANENCE/WARRANTY: The Purchaser is responsible for the cost of the replacement part or software, and all shipping charges. All charges shall be estimated and prepaid prior to commencement of repairs.

d) Replacement parts used for repair may be new, refurbished, or contain refurbished materials.

4.08 Nothing herein contained shall be construed as obligating FARO to make service, parts, or repairs for any product available after the expiration of the Maintenance/Warranty Period.

4.09 Limitation of Liability

FARO shall not be responsible under any circumstances for special, incidental or consequential damages, including, but not limited to, injury to or death of any operator or other person, damage or loss resulting from inability to use the System, increased operating costs, loss of production, loss of anticipated profits, damage to property, or other special, incidental or consequential damages of any nature arising from any

cause whatsoever whether based in contract, tort (including negligence), or any other theory of law. FARO's only liability hereunder, arising from any cause whatsoever, whether based in contract, tort (including negligence) or any other theory of law, consists of the obligation to repair or replace defective components in the System or Blink subject to the limitations set out above in this section.

This disclaimer of liability for consequential damage extends to any such special, incidental or consequential damages which may be suffered by third parties, either caused directly or indirectly resulting from test results or data produced by the system or any component thereof and the Purchaser agrees to indemnify and save FARO harmless from any such claims made by third parties.

4.10 The foregoing shall be FARO's sole and exclusive liability and the Purchaser's sole and exclusive remedy with respect to the system.

THE SOLE RESPONSIBILITY OF FARO UNDER THE WARRANTIES IS STATED HEREIN AND FARO SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES, WHETHER THE CLAIM IS FOR BREACH OF WARRANTY, NEGLIGENCE, OR OTHERWISE.

OTHER THAN THE EXPRESS WARRANTIES HEREIN STATED, FARO DISCLAIMS ALL WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.

4.11 FARO does not authorize any person (whether natural or corporate) to assume for FARO any liability in connection with or with respect to the Products. No agent or employee of FARO has any authority to make any representation or promise on behalf of FARO, except as expressly set forth herein, or to modify the terms or limitations of the Warranties. Verbal statements are not binding upon FARO.

4.12 The Maintenance/Warranties extend only to the Purchaser and are transferable, only under the following conditions:

- The scanner is currently under maintenance/warranty.
- New owner is, or becomes, a certified user.
- A FARO maintenance/warranty transfer form is completed, and submitted to Customer Service.

All claims under the Warranties must originate with the Purchaser, or any subsequent owner, and the Purchaser will indemnify and save FARO harmless from any claims for breach of warranty asserted against FARO by any third party.

4.13 Oral representations of FARO or its sales representatives, officers, employees or agents cannot be relied upon as correctly stating the representations of FARO in connection with the system. Refer to this purchase order, any exhibits hereto and any written materials supplied by FARO for correct representations.

4.14 PURCHASER ACKNOWLEDGES THAT IT HAS PURCHASED THE SYSTEM BASED UPON ITS OWN KNOWLEDGE OF THE USES TO WHICH THE SYSTEM WILL BE PUT. FARO SPECIFICALLY DISCLAIMS ANY WARRANTY OR LIABILITY RELATED TO THE FITNESS OF THE SYSTEM FOR ANY PARTICULAR PURPOSE OR ARISING FROM THE INABILITY OF THE PURCHASER TO USE THE SYSTEM FOR ANY PARTICULAR PURPOSE.

5.00 Design Changes

5.01 The Blink, the Software and the System are subject to changes in design, manufacture, and programming between the date of order and the actual delivery date. FARO reserves the right to implement such changes without the Purchaser's consent, however, nothing contained herein shall be construed as obligating FARO to include such changes in the Blink, Software or System provided to the Purchaser.

6.00 Non-Disclosure

6.01 All Software including, without limitation, the Operating System Program and any FARO special user programs, provided to the Purchaser as part of the system, either at the time of or subsequent to the delivery of the Blink, is the intellectual property of FARO. The Purchaser shall not reproduce or duplicate, disassemble, decompile, reverse engineer, sell, transfer or assign, in any manner the Software or permit access to or use thereof by any third party. The Purchaser shall forthwith execute any further assurances in the form of non-disclosure or licensing agreements which may reasonably be required by FARO in connection with the software.

7.00 Entire Agreement / Governing Law / Miscellaneous / Guarantee

7.01 These Purchase conditions constitute the entire agreement between FARO and the Purchaser in respect to the Product. There are no representations or warranties by FARO, express or implied, except for those herein contained and these conditions supersede and replace any prior agreements between FARO and the Purchaser.

7.02 No representative of FARO has any authority to modify, alter, delete or add to any of the terms or conditions hereof. Any such modifications shall be absolutely void unless made by instrument in writing properly executed by an actual authorized employee or agent of FARO.

7.03 The terms and conditions hereof shall be binding upon FARO and the Purchaser, and shall be construed in accordance with the laws of the State of Florida, United States of America.

7.04 FARO shall be entitled to recover all of its reasonable fees and costs including, but not limited to, its reasonable attorney’s fees incurred by FARO in connection with any dispute or litigation arising thereunder or in connection herewith, including appeals and bankruptcy or creditor reorganization proceeds.

7.05 These conditions shall not be construed more strictly against one party than another as a result of one party having drafted said instrument.

8.00 Definitions

8.01 "FARO" means FARO

8.02 "Purchaser" means the party buying the Product and who is legally obligated hereunder.

8.03 "Software" means all computer programs, disk drive directory organization and content, including the computer media containing such computer programs and disk drive directory organization and content, sold pursuant to the Order.

8.04 "Product" means the Blink, the Software, operating manuals and any other product or merchandise sold pursuant to the Order. If the Purchaser is buying only a Blink, or the Software, Product will mean the product being purchased by the Purchaser pursuant to the Order.

8.05 "System" means a combination of the Blink, the Software, the Computer, and optional parts and accessories associated with the Blink.

8.06 "Purchase Order" means the original document issued from the Purchaser to FARO, listing all parts and/or services to be purchased and the agreed purchase price.

8.07 "Maintenance/Warranty Transfer Form" means a document to be completed for the transfer of the FARO Maintenance/Warranty. This document is available from FARO upon request.

Appendix D: Industrial Products Service Policy

A one-year maintenance/warranty comes with the purchase of new FARO manufactured hardware products.

The most regular of the FARO Standard Maintenance Terms and Conditions can be found in the FARO Knowledge base.

FARO Software

All FARO Software users will receive maintenance releases until the end of life for the version at no charge electronically or at a minimal fee for the computer media package. All enhancement and functionality upgrades will be available for purchase upon release.

Hardware & Software Training

FARO's training program is designed to instruct trainees in the operation of FARO's hardware and software, which the customer has purchased. The training classes are set up for each trainee to obtain valuable hands on application exposure. This will help the trainees in their everyday use of the hardware and software. FARO also feels that once the trainee completes the training, finding solutions to problems or applying applications will be simpler.

Appendix E: Industrial Service Policy

This Service Plan (hereafter, the "Plan") is part of the Operating Manual for the FARO manufactured product purchased from FARO (hereafter, "FARO"). The Plan and all of the optional additions, are subject to the conditions in Appendices A, B, & C, and are subject to change. This appendix refers to FARO's service plans as written in the sales advertising literature, and is meant to provide additional details that the literature does not permit.

1.00 The purchase of the Plan shall occur with the purchase of the FARO products.

1.01 The plan shall apply to systems exclusively created or authored by FARO.

1.02 The plan shall include FARO product hardware only, and can not be extended or transferred through the sale of any part of the system to a third party unless the entire system has been sold or transferred.

1.03 The plan shall not cover Hardware or Software which has been subjected to misuse or intentional damage. FARO reserves the right to determine the condition of all returned Hardware and/or Software.

1.04 FARO shall determine the service method and contractor to service/repair all hardware which is not directly manufactured by FARO. All outside contractor terms and conditions are available from FARO and are incorporated herein by reference.

1.05 FARO shall not be responsible for any non-FARO authored software which inhibits the operation of the system. Furthermore the plan will not cover the re-installation of any software.

1.06 The Hardware and Software are subject to changes in design, manufacture, and programming. All updates are as follows:

a) Hardware - The Scanner and all of the associated optional parts, and the Computer are not subject to updates.

b) Software - All computer programs, authored by FARO, which are used in conjunction with the FARO provided Hardware, will be updated (maintenance upgrades) for the life of the Purchaser's current version. All enhancement and functionality upgrades must be purchased.

c) 3rd Party Software - All computer programs not authored by FARO will not be updated under the Plan. The purchaser is responsible for the acquisition of all 3rd party software updates and warranty service or claims.

1.07 In the event that FARO replaces any product or replacement product, FARO retains all right, title, and interest in and to all products or portions of products that were replaced by FARO.

2.00 Definitions

2.01 "FARO" means FARO Technologies Inc.

2.02 "Purchaser" means the party buying the Product and who is legally obligated hereunder.

2.03 "Software" means all computer programs, disk drive directory organization and content, including the diskettes containing such computer programs and disk drive directory organization and content, sold pursuant to the Order.

2.04 "Product" means the Scanner, the Software, operating manuals and any other product or merchandise sold pursuant to the Order. If the Purchaser is buying only a scanner, or the Software, Product will mean the product being purchased by the Purchaser pursuant to the Order.

2.05 "System" means a combination of the Hardware, the Software, the Computer, and optional parts associated with the Blink.

2.06 "Hardware" means the scanner and all of the associated optional parts, and the Computer if provided by FARO.

2.07 "Software" means all computer programs, authored by FARO, which are used in conjunction with the FARO provided Hardware.

Service Plans

Information about FARO's service plan options can be found on the FARO Knowledge Base https://knowledge.faro.com/Essentials/General/Service_Plans_for_FARO_Hardware.

Appendix F: Certifications

- The following compliance details apply to the Regulatory Model: GGS1 which covers the Blink.
- One or more of the compliance details listed in this chapter are relevant for your product. The relevant details can be identified by the symbols and text on the nameplate.

European Union

CE Declaration of Conformity

Hereby, FARO Europe GmbH declares that the radio equipment type Blink is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address:

https://www.faro.com/en/Support-Overview/Technical-Documentation/Certificates

RF exposure statement

The minimum distance between the user or any bystander and the radiating structure of the transmitter is 20 cm (7.87 in).

5150 ~ 5350 MHz is limited to indoor use in these countries:

	BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR
	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT
	RO	SI	SK	FI	SE	UK(NI)	LI	IS	NO	TR	CH

China

CMIIT ID: 25J99T99G100

Canada

IC Statement

Contains IC ID 6158A-WNFQ269AXBT

This device complies with Industry Canada's license-exempt RSSs. 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.

Contient IC ID 6158A-WNFQ269AXBT

Le présent appareil est conforme aux CNR d'Industrie 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.

Japan

Radio Equipment Certification Under the Radio Act of Japan

当該機器には電波法に基づく、技術基準適合証明等を受けた特定無線設備を装着している

R003-220345

W52 and W53 is for indoor use only.

USA

FCC Equipment Authorization

Trade name: FARO

Product Name: Blink

Regulatory Model: GGS1

This device complies with Part 15 of the FCC Rules

Operation is subject to the following conditions:

1. The devices may not cause harmful interference, and
2. The devices must accept any interference received, including interference that may cause undesired operation.

Contains FCC ID RYK-WNFQ269AXBT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is not likely to cause harmful interference.

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