# User Manual

**FOR OUTDOOR TRACKING ONLY** unless used in conjunction with an Indoor Tracking Accessory.

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Your SOLOSHOT3

In the Box

Tag
1. Power Button
2. OLED Screen
3. Function Button

Base & Camera
1. Hot Shoe
2. Mono Mic
3. 3.5 mm Auxiliary Jack
4. Indicator LED
5. K-Lock Slot
6. Accessory Port/Tag Charger
7. Mini USB Charging Port + USB Type A Port
8. HDMI Out
9. Micro SD Card Slot
10. Camera Release Button
11. Power Button
12. Touchscreen
13. 3/4” Tripod Mounting Head
Getting Started

Charging your Base and Tag

1. Dock the Tag, with buttons facing up, into the Accessory Port on the front of the Base.
   Attach the Tag to the Base by first inserting from the top, as depicted in the graphic below.

2. Insert USB cable into a USB outlet adapter (not included) rated at 1.5A to 2.1A (most tablet charger adapters) and plug it into the Base.

3. Fully charge the Base and Tag prior to use. This will take about 4 hours. Charging time varies based on USB wall adaptor rating.

Connecting the Base to your Tripod

1. For the best results, we recommend mounting the Base on a Tripod with a 3/8" mounting screw.
   If you already have a pan/tilt head on your tripod, please remove it prior to connecting your Base.
   If your tripod only has a ¼" screw, use the provided Tripod Adapter Screw.

2. Hand tighten the Base onto your tripod until you feel light resistance from the panning motor. Avoid excessive manual panning and tilting of the BASE motors by hand.

4. Use the provided Tripod Tool to finish tightening.

NOTE

Only Base & Tag contain batteries and must be recharged.

For the best experience, use a sturdy tripod.
Visit soloshot.com/accessories to purchase a recommended tripod.
Preparing your SOLOSHOT3

1. Insert an approved MicroSD card into the side of the OpticX Camera. You will hear a click when fully inserted.

   ![Dock the OpticX Camera to the Base](image)

   **IMPORTANT**
   Your SD card will be **completely erased**. Make sure to save any content that you don’t want erased!
   Visit soloshot.com/sd-card for a list of compatible SD Cards.

2. Dock the OpticX Camera to the Base by guiding it down onto the tilt drum from above, and then pushing it forward until it securely clicks into place.

3. To power on Base, press and hold the POWER button for 3 seconds. To power on Tag, press the POWER button.

Update and Registration

1. Create a SOLOSHOT account on the web at: [soloshot.com/ss3setup](http://soloshot.com/ss3setup)

2. Power on Base and follow on-screen instructions to update your device.

   ![Power on Base](image)

   **IMPORTANT**
   Base must be charged or charging to update.

3. After registering your Tags, you are prompted to select the tracking preferences of the Tag.

   ![Register Tags](image)

   **IMPORTANT**
   Screen will be blank for up to 1 minute during certain steps of update process. **Do not** power down device during update.
**Auto Track:** When the Tag is turned on and within range of the Base, the Base will automatically track this tag. This is the default.

**Ask to Track:** When the Tag is turned on and within range of the Base, the Tag will need to be toggled within the Tag Manager. Tags that are toggled off will not be tracked by the Base.

Finish setup by registering your Base and Tag(s) to the SOLOSHOT account created from Step 1.

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**Location Setup**

**To ensure the best filming results:**

- **a.** Level your SOLOSHOT using the bubble level on the TRIPOD.
- **b.** Ensure that both the BASE and TAG always have a clear view of the sky.
- **c.** Do not bring the TAG and/or BASE inside once powered on.
- **d.** Do not setup under an overhang, dense tree canopy, or close to a building or cliffs.

**Setting up the SOLOSHOT Tripod**

Open and set up the Tripod by unlocking the Leg Locks (b) and extending the telescoping legs until the Tripod is at the desired height. Lock the Leg Locks. In windy or otherwise unstable conditions, be sure to widen the leg stance using the Wide Leg Locks.

**Tripod Neck Extension:**
Extend the Tripod Neck by loosening the Neck Thumb Screw (a), Tighten Neck Thumb Screw and Leg Locks when desired height is achieved.

**Wide Leg Lock Option:**
Use a wider stance if necessary to improve stability or to account for local topography. For example, in windy or unstable conditions, or in areas where the Tripod may be bumped or jostled, you should use a wider stance.

**Windy Conditions:**
Add a weight to the hook on the bottom of the Tripod neck and/or widen the leg stance, as outlined above.
Safety and Security

1. Make sure the location you choose for your SOLOSHOT3 is safe and secure.
   Be smart and creative when selecting your setup location when leaving your Base and Camera unattended.

   ![IMPORTANT]

   Do not use SOLOSHOT near high voltage power lines, radar/radio jamming equipment, or telecommunications towers. To ensure proper functionality of your SOLOSHOT, stay at least 500m (0.3mi) away from these areas.

2. Use the k-lock accessory to secure the Camera to the Base.
   Available at soloshot.com/products/lock.

   ![SOLOSHOT INC IS NOT RESPONSIBLE FOR THEFT OR DAMAGE TO YOUR SOLOSHOT3 AND ITS ACCESSORIES.]

Home Screen

1. Tags: Select Tags that you would like to track.

   Track: Start/stop tracking, toggle record on/off, trigger single photos or bursts, adjust tracking and camera settings, quickly manage your Tag(s), and live stream.

   Time Lapse: Capture a series of photos at preselected intervals.

2. Settings: Manage Wi-Fi, format the SD card, adjust screen brightness and more.

   Update: Install the most recent software updates on the Base, Tag and/or Camera. When updates are available, the user will be notified upon entering the Update App.

   Gallery: Playback your video and photos on the touchscreen. (Coming soon)

3. Account: Manage your SOLOSHOT account on the Base.
Using the Track App

Begin Tracking

1. Within the HOME SCREEN, tap TRACK to enter the Track App.

2. Tap the TRACK button.

3. This is the tracking action sheet, which allows you to either begin tracking, or change tracking settings.

   - Select TRACK.

4. Choose TRACK MODE

   - WATER: For performing activities on the water. Examples: surfing, kiteboarding and sailing.
   - FIELD: For performing activities on a LEVEL playing field. Examples: soccer, track & field and equestrian.
   - TERRAIN: For performing activities on UNEVEN surfaces. Examples: skating, snowboarding and motocross.
   - FLIGHT: For performing aerial activities. Examples: RC planes, drones (UAVs) and paragliding.

5. Tap CONTINUE to begin calibrating the system.

IMPORTANT

If no Tags are selected, go to the Tag Manager.

See section: Select Tags
Calibrating

The BASE will spin for about 1 minute as it calibrates the sensors.

**Successful Calibration**

Once calibration is successful, your Base will automatically begin tracking the selected Tag(s).

The Camera viewfinder appears on the screen.

The LED at the front of the BASE blinks green.

If every selected Tag indicates they do not wish to be tracked, then the Base will be idle.

**Problem Detected**

Calibration may fail due to poor GPS signal or local magnetic interference. In this case, follow the on-screen instructions.

Please be sure to set up your Base in a location with a clear view of the sky and away from sources of magnetic interference.

See: LOCATION SETUP

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**Green Indicator LED States**

LED is highly directional & changes brightness with distance. If you can see it, the Base is pointing at you and you are within range.

**Slow Blinking**

Base is actively tracking. No problems detected.

**Medium blinking**

Base has begun tracking, but computer vision is not yet engaged.

**Rapid blinking**

Problem detected. Return to the Base immediately and resolve the issue via on-screen instructions.

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**TIP**

Before beginning your activity, we recommend that you walk back and forth in front of the CAMERA a few times in the area where you will be performing your activity if possible. This will allow the CAMERA’s smart tracking system to center you in the screen.
Using the Viewfinder

1 Tag Manager
Displays how many Tags are being tracked. Tap to navigate to the Tag Manager.

2 Track
Start or stop tracking.

3 Record
Start or stop recording.

4 LIVE
Start or stop live streaming.

5 Status Bar
Displays Wi-Fi strength and battery level.

6 Pulldown Menu
Access the home screen, Wi-Fi, camera controls, and settings.

7 SD Card Indicator
Available SD Card Space and Record Time

Pulldown Window
8 SD Card Storage Space
Displays how much recording time or number of photos remaining.

9 Home
Exits the Track App, stops tracking/recording and takes you back to the Home Screen.

10 WiFi
Opens WiFi settings.

11 Refine
Allows you to manually adjust the framing of the subject in the viewfinder.

12 Settings
Opens the Settings window, allowing you to change Camera Mode and Tracking Settings.

Using the Tag Screen

1 Battery Level
Displays the remaining battery level.

2 Tracking Status
Displays whether the TAG would like to be tracked.

3 GPS Status
Displays the status of the TAG’s GPS signal.

4 Record
Displays if TAG would like to be recorded.
Track App (Tag Icon)

1. The Tag icon represents the Tag Manager.

   Below the icon are two numbers. The numerator shows how many Tags are currently being tracked in your session. The denominator shows how many Tags are available to track. These are Tags that are turned on, detected, and within range of the Base.

2. Tapping the Tag icon will take you to the Tag Manager.

   See section: Tag Manager

Wearing the Tag

1. Snap the Tag into the Armband clip with the button side aligned with the clip window.

2. You will hear a distinct click when Tag is in place. Check the alignment and adjust if necessary.

3. Always wear the Tag with buttons facing upward.
### Start and Stop Recording

#### From Tag
Press and hold the button to toggle record on or off.

#### From Base
Tap the RECORD button to start or stop recording.

### Pause and Resume Tracking

#### From the Tag
Double tap the button to pause or resume tracking.

#### From the Base
Tap the TRACK button to pause or resume tracking.

#### NOTE
The system is smart. If there are no other Tags to track, then the Base will automatically stop recording. Users can override this from the Base.

#### IMPORTANT
Good GPS signal is required for tracking.

- **Good GPS Signal**
- **Poor GPS Signal**
Start and Stop Live Streaming

Pre-requisites

Connected to Wi-Fi.
Internet Speed Requirements: Stream quality depends on the internet connection speed – a minimum of 1.5 Mbps upload speed is required.

Base is calibrated.
See section: CALIBRATING

Warning:
All live streams are viewable to the public on the SOLOSHOT app.

1. Tap the LIVE button.

2. This is the live streaming action sheet, which allows you to either begin streaming or change live stream settings.

3. Add a Title and Description to your stream. Both fields are required. This information will appear on your stream in the SOLOSHOT app.

   The Title is a required field. When left blank, it will default to "Live with #SOLOSHOT3"

4. Select GO LIVE
   The Base will attempt to connect to the SOLOSHOT network.

   Live Stream Started
   while live stream is active, the track app interface shows the LIVE highlighted in red.

   Live Stream Failed
   blurb on why you may not be successfully live streaming.

5. To stop live streaming, tap the LIVE button, then END LIVE.

Regardless of recording resolution, the live stream video is compressed at 720p60.

Your live streams appear on the SOLOSHOT app and app.soloshot.com. Be sure to download the SOLOSHOT app on the App Store or Google Play!

By streaming, you agree to all terms and conditions including privacy as described at soloshot.com/terms
Moving the Base

1. It is possible to reposition the Base at any time.
   
   **NOTE**
   Maintain location setup best practices.
   See section: LOCATION SETUP

2. Simply pick up the BASE (and TRIPOD) and move it to a new location.
   If tracking is on, picking up the Base will automatically pause tracking and recording. Once stable, the Base will re-calibrate and resume tracking and/or recording.
   If tracking is paused, the Base will re-calibrate once the user resumes tracking.

Tracking Distance

- **Minimum Distance**
  The Base is optimized to track Tags at least 10 feet away. When tracking Tags inside a 10 feet radius, the Base may temporarily lose the subject.

- **Maximum Distance**
  Up to 2,000 feet away. If Tags fall out of range, the Base will become idle, or track the next available tag in multi mode.

Advanced Track Settings

1. Many tracking settings are available to suit your filming preferences.
   Tracking settings can be adjusted prior to calibration or any time during tracking/filming.
   
   **The default settings are:**
   Camera Mode: Video
   Resolution: 1080p60 fps
   Framing: Bottom Center
   Field-of-View: Medium
   Trajectory: 3-seconds

2. To adjust tracking settings
   Select the TRACK button.
   
   **NOTE**
   Tracking and recording stop when accessing settings.

3. Tap TRACK SETTINGS
### Track Mode

**WATER**
For performing activities on the water. Examples: surfing, kiteboarding and sailing.

**FIELD**
For performing activities on a LEVEL playing field. Examples: soccer, track & field and equestrian.

**TERRAIN**
For performing activities on UNEVEN surfaces. Examples: skating, snowboarding and motocross.

**FLIGHT**
For performing aerial activities. Examples: RC planes, drones (UAVs) and paragliding.

### Field of View

The Field of View (FOV) determines how much of the shot is visible on Camera. The tighter the FOV, the camera will zoom in. The subject will appear larger in the frame relative to the visible background. The wider the FOV, the Camera will be zoomed out. The subject will appear smaller in the frame relative to the visible background.

**Field-of-View Parameters:**
- Tight: 10 meters
- Medium: 20 meters
- Wide: 40 meters
- Extra Wide: 80 meters

### Framing

Framing determines where the subject will appear within the shot. Choosing a framing setting is entirely based on personal preference.

**Example 1:** Framing the subject at Bottom Center will focus the camera on subject and the background of the subject. There will be little foreground in front of the subject.

**Example 2:** Center framing will put an equal emphasis on foreground and background, while keeping the subject at the center of the action.

**Framing Parameters:**
- Top Left
- Top Center
- Top Right
- Middle Left
- Middle Center
- Middle Right
- Bottom Left
- Bottom Center
- Bottom Right

### Trajectory

If the Base temporarily loses the Tag’s signal, the trajectory will determine how long the Base will continue to move in the same direction and speed at the time the signal was lost.

**The default is set to 3 seconds. Range is 1-10 seconds.**

**Example:** Great for surfing when becoming completely covered up in a barrel. This mode keeps the Camera tracking on the last known trajectory to ensure that you’re still in frame when reemerging.

The Camera will pause temporarily pause tracking if it’s unable to reacquire the Tag’s signal within the specified trajectory time setting. In other words, if you plan on being inside a barrel for more than 3 seconds, then set trajectory to 4 seconds or more.

Once the Camera reacquires the Tag’s signal, it will automatically resume tracking.
Access Camera Settings

1. To Access Camera Settings
   Tap the PULLDOWN MENU.

2. Select SETTINGS.

3. Select CAMERA SETTINGS.

Video Mode

1. By default, the Camera is set to Video Mode with a resolution of 1080p60.
   Within Camera Settings, tap RESOLUTION to change the record resolution.

2. Resolution Parameters
   - **Optic65x**
     - 4k30
     - 2.7k30
     - 1080p30
     - 1080p60
     - 1080p120
   - **Optic25x**
     - 1080p30
     - 1080p60
     - 720p120

3. Tap the back arrow button to exit CAMERA SETTINGS.
Photo Mode

1. Within Camera Settings, tap Camera Mode to switch to PHOTO MODE.
   Tap the back arrow button to exit CAMERA SETTINGS.

2. From this menu, adjust the PHOTO MODE
   **SINGLE** or **BURST**
   **TIMER:** The delay time between when you tell the CAMERA to take a photo(s) to when the shutter fires.

3. When selecting PHOTO BURST, a new option is available.
   **RATE:** This setting allows you to choose the number of consecutive photos to take over a period of time.

Taking Photos

1. **Pre-requisites**
   **In Photo Mode**
   Base does not need to be calibrated.

2. **From the Tag**
   Press the Button on the Tag and the Camera will take photos based on your selected settings.

3. **From the Base**
   Tap the SHUTTER/RECORD button.
Multi-Mode

Follow Mode Settings

Pre-requisites:
At least 2 TAGS and/or BASES.
Purchase additional products at soloshot.com/shop.

1. On each Base, choose between 3 settings that instructs your Base which Tag to follow.
   Each Base may be configured differently.

   ![FOLLOW MODE](image)

   - **Closest**
     The Base will track the closest Tag.
   - **Fastest**
     The Base will track the fastest moving TAG.
   - **Button Press**
     Tapping the button on the Tag will trigger all Bases on the Button Press setting to begin tracking that Tag. The Base will continue to track this Tag until another Tag performs the button press.

Filming Scenarios: Multiple Tags from a single Base

1. Setup and calibrate your Base with a single Tag. *(See section: BASIC TRACKING)*
2. Enter the TAG MANAGER.
   Toggle tracking on for the Tags that you would like to track.

   ![TAG MANAGER](image)

3. Select Follow Mode.
   Exit the TAG MANAGER by pressing the back arrow.

   ![FOLLOW MODE](image)
Filming Scenarios: Single Tag from multiple Base

1. Setup and calibrate each Base with a single Tag.  
(See section: BASIC TRACKING)

2. Follow Mode does not apply here as there is only one TAG in the system.

Filming Scenarios: Multiple Tags from multiple Bases

1. Setup and calibrate your Base with a single Tag.  
(See section: BASIC TRACKING)

2. On all Bases being used:  
Enter the TAG MANAGER.

3. Select Follow Mode.
Exit the TAG MANAGER by pressing the back arrow.

Toggle tracking on for the Tags that you would like to track.

The Tags that you’d like to track in the session must be saved to the Base.
Motion Time-Lapse

Setting MTL Parameters

1. Motion Time Lapse is the ability to capture a series of photos at while moving at predetermined intervals.
   Tap the settings panel to configure how many photos you’d like to take over a period of time.

   ![Settings Panel]

   - **Interval**: 5s, 10s, 30s, 60s
   - **Number of Frames**: 10, 100, 300, 450, 900, 1800

   **Interval Parameters**
   Use a shorter interval [1-3 seconds] when capturing faster moving objects.
   Use a longer interval [5 seconds or more] when capturing slower moving objects.

2. The INTERVAL represents how many seconds will elapse in between each photo.
   The NUMBER OF FRAMES represents how many photos will be taken in the session.

   ![Number of Frames Panel]

   **Tips**
   - Use a shorter interval [1-3 seconds] when capturing faster moving objects.
   - Use a longer interval [5 seconds or more] when capturing slower moving objects.

**NOTE**

The Elapsed Time is the total time it takes to perform the motion time lapse. It is calculated by multiplying the interval by number of frames, and is displayed in total minutes.

Setting Start and End Points

1. Use the arrows to find a START point and adjust the field of view [degree of ZOOM].
   Tap SET.

   ![Set Start Point]

2. Use the arrows to select the END point.
   Tap SET.

   ![Set End Point]

3. Tap the icon to begin.
   At this time, the Camera will re-position to the starting point and begin.

**NOTE**

The MTL can be cancelled at any time by tapping on the Stop Button. When stopping an MTL, you have the option of saving the incomplete MTL into the SD card, or discarding all the photos taken during the session.
**Tag Manager**

1. **Select one or more Tags that you would like to track.**

   The TAG MANAGER is accessible both through the TRACK APP and from the home screen.

   Tap TAGS from the home screen to enter the TAG MANAGER.

   **Pre-requisites**
   
   In order for a Tag to be detected by a Base, it must be:
   
   - Powered on
   - Have been docked to the Base in the past
   - Be within the 2,000-ft distance
   - Have a GPS signal

2. **SESSION:** This list comprises of Tags that the Base is currently tracking, meets the pre-requisites to be tracked, or has been tracked in the current session.

   The list starts out empty until a Tag meets the pre-requisites. Tags remain in the list until the Base has been turned off, but will remain in the ALL list.

3. **ALL:** This list shows a history of every Tag that has ever been docked onto the Base, even if they do not meet the pre-requisites.

   This allows you to view and manage your history of Tag, including the ability to forget Tags.

**Update App**

1. **SOLOSHOT3 and its components continually improve over time through software updates.**

   Updates contain performance improvements, new features, and bug fixes just like software updates on your smartphone or computer.

2. **In the home screen, select the UPDATE APP.**

   The system will automatically check for available update.

3. **If an update is available, you can view the changelog and/or begin the update by tapping “Update.” Follow the on-screen instructions to update the Base, Tag, and Camera.**

   If no updates are available, then tap DONE to return to the home screen.
From Home Screen, Tap SETTINGS

1. **Wi-Fi**
   - Wi-Fi network is required to perform software updates and to live stream.
   - **Supported Networks:**
     - 2.4 GHz
     - **Non-supported Networks:**
     - 5.0 GHz
     - Captive portals

2. **SD Card**
   - View capacity and format your SD card. Remaining storage is calculated based on the currently selected recording resolution in the Track App. [Recommended: Format your SD card the first time before use through Settings > SD Card > Format]
   - Use only approved SD Cards available through authorized sellers. For a complete list of approved SD Cards visit soloshot.com/sd-card

3. **Display**
   - Adjust the screen brightness and sleep timer.

4. **Battery**
   - View the charging status and current battery level.

5. **Date & Time**
   - Set the date & time, and time zone. [Recommended: set automatically]

6. **Account**
   - Within the Account app, view the name and details associated with your BASES(s). Creating an account is part of the process when using a new BASE for the first time. Go to soloshot.com/ss3setup to create an account.
   - **Base Name:** Your first BASE registered with your account will be listed as B1_username.
     - If you register a second BASE, it will be listed at B2_username, and so on.
     - You can register an unlimited number of BASES to your account.
   - **Base Details:** View detailed information and to unregister your BASE from the current account.
     - Unregistering your BASE is helpful when logging into a new or different account.
     - For security reasons, your account password must be entered to successfully unregister.

7. **About**
   - View software, legal, and regulatory information.

8. **Help**
   - Visit support.soloshot.com

9. **Factory Reset**
   - Resets your device back to out-of-box defaults.

10. **Developer Options**
    - Not for general use.
The Base contains many electrical and mechanical parts and must be cared for to prolong life.

As a general rule of thumb, here are do's and don'ts.

**DO**
- clean the Base by lightly wiping with a damp cloth.
- DO remove the Base from the tripod after each use.
- DO consistently update to the latest software to optimize the Base.
- DO rinse your Tag and armband in fresh water after contact with saltwater.
- DO clean the lens with a microfiber cleaning cloth.

**DO NOT**
- submerge the Base and Camera underwater. They are not water resistant.
- stick any foreign objects between the tilt and main structure of the Base.
- manually pull the lens out of the camera. Attempting to do so will damage the motors.
- manually force the Base to tilt or pan.
- attempt to open the Base to troubleshoot. This will void your warranty.
- keep cables plugged in during device calibration.

**WARNING**
To avoid damage, remove all cables prior to and during calibration as the Base spins.

The Base outputs uncompressed video from the Optic65 and Optic25 Cameras at 720p60.

HDMI out is available anytime Camera Preview is available on the Base.

Micro HDMI cable is required.

The color space of the HDMI output is RGB.

**HDMI Out**
Output and Video Playback for TVs and Monitors

The Base outputs uncompressed video from the Optic65 and Optic25 Cameras at 720p60.

HDMI out is available anytime Camera Preview is available on the Base.

Micro HDMI cable is required.

The color space of the HDMI output is RGB.

**WARNING**
To avoid damage, remove all cables prior to and during calibration as the Base spins.

**Maintenance**