

# Asset Tracker AT1

Installation Guide

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# 1 Quick Install Guide: AT1+ Asset Trackers

## 1.1 Install your new AT1+ asset tracker in 5 easy steps:

1. Unpack and Charge the Device The AT1S+ tracker should be placed outside in direct view of the sun to fully recharge which can take up to 60 hours.
2. Download the Unity Install App Download the Unity Install app on your mobile device and perform a Health Check to confirm the tracker is reporting.
3. Mount the Device Physically mount the AT1+ tracker on a suitable location on the asset. Ensure the tracker has a clear line of sight to the sky for optimal signal reception.
4. Confirm Signal Strength Once the tracker is mounted, use the Unity Install app to confirm the signal strength, ensuring the tracker is receiving a strong signal to guarantee accurate and consistent reporting.
5. Login to Unity Log in to Unity to see your asset displayed on the map.

You're now ready to enjoy the benefits of real-time tracking and reporting of your asset in Unity!

### 1.1.1 Using the Unity Install App

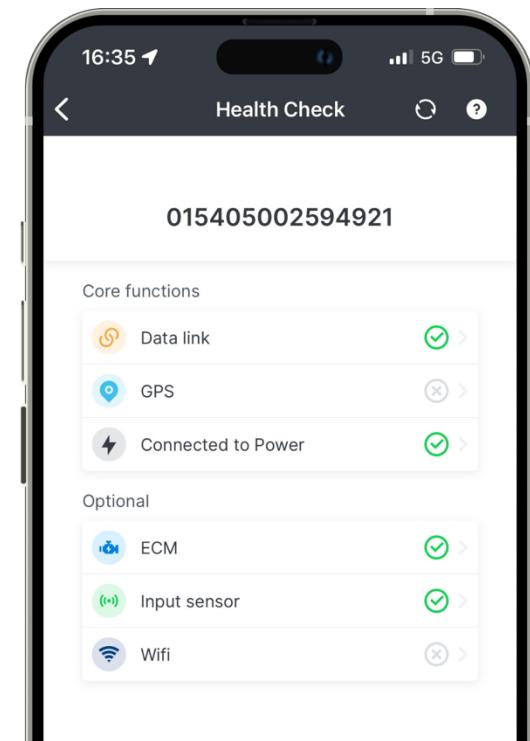
Download the Unity Install mobile application for a step-by-step guide through the installation process to ensure your device is setup correctly. Simply login using your Unity credentials and password. If you do not yet have an Unity account, please check the activation email sent to you, which prompts you to create your Unity account and password. The Unity Install app makes installations seamless so you can start tracking with confidence.



Download for Android  
[Unity Install](#) on Google Play



Download for iOS  
[Unity Install](#) on the App Store



## 2 Mounting & Installation

### 2.1 Determine the optimal mounting location

To ensure optimal performance of the asset tracker, it is essential to select a suitable mounting location. Ideally, mount the device at the highest point of the asset with a clear view of the sky. Avoid placing it under metal surfaces, as this can reduce the range and effectiveness of GPS and cellular signals. Additionally, ensure that any metal parallel to the sides of the asset tracker is at least 15 cm (6 inches) away.

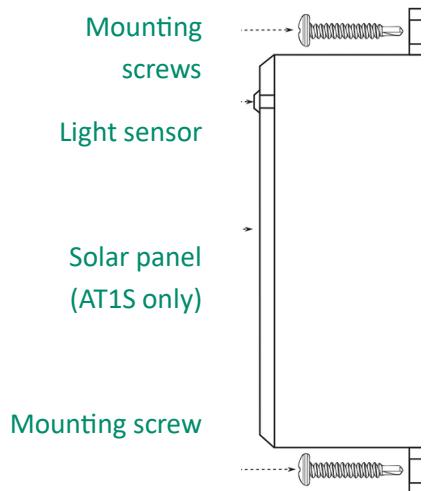


Mounting the device too close to metal or in an improper orientation can negatively affect the asset tracker's performance. This may result in inaccurate GPS location fixes as well as unreliable cellular network connectivity and increased power consumption.

#### 2.1.1 Using Screws (preferred)

Attach the device to a flat surface using the supplied self-tapping screws, ensuring not to overtighten to prevent base cracking.

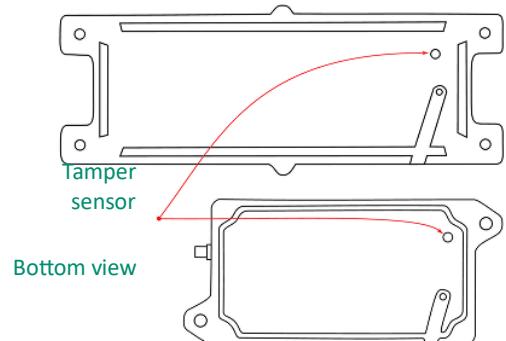
1. Be cautious when using the mounting screws to avoid puncturing or damaging any radiators, coolant lines, electrical wires, or fluid tanks.
2. The asset tracker should always be oriented with the light sensor on top facing the sky. Note that this is different from the tamper sensor located on the bottom.
3. For heavy-duty construction equipment, it is recommended to use both screws and VHB tape.



#### 2.1.2 Using Zip Ties or Adhesive (alternative)

For interior or temporary setups, you can also use zip ties or 3M VHB (Very High Bond) double-sided tape. If you choose VHB tape, ensure the mounting surfaces are clean and free of any residue before applying.

1. When using VHB double-sided tape, ensure the optical tamper sensor on the bottom of the asset tracker stays uncovered and exposed.
2. The asset tracker package does not include zip ties or 3M VHB double-sided tape.



### 3 Recommendations & Best Practices



AT1S+  
Solar Rechargeable Battery

- The solar asset tracker must be mounted with the solar panel facing upwards and having an unobstructed view of the sky. This is essential to ensure the tracker can recharge from daylight.
- It is strongly recommended to install the solar asset tracker in a horizontal orientation with the solar panel facing upwards towards the sky, as this is the ideal setup. If vertical installation is necessary, ensure the light sensor on the top surface is facing upward, and the label on the side is facing left or downward.
- Ensure the bottom surface of the asset tracker is securely against the mounting surface to block light from reaching the tamper sensor. This also helps prevent dirt and debris from getting underneath the device.
- Because the solar asset tracker requires sunlight for recharging, it is strongly recommended to use it only on assets located outdoors. Indoor operation may not provide enough sunlight for the internal battery to recharge properly.



AT1H+  
Hardwire Rechargeable Battery



| Wire color: | Purpose:                    | Note:           |
|-------------|-----------------------------|-----------------|
| Pink        | Power IN (6.5 to 40 VDC)    | 500 mA max draw |
| Grey        | Ignition IN (5.5 to 40 VDC) |                 |
| Black       | Common/GND                  |                 |
| White       | Do Not Connect (future use) |                 |
| Brown       | Do Not Connect (future use) |                 |
| Blue        | Do Not Connect (future use) |                 |
| Yellow      | Do Not Connect (future use) |                 |
| Red         | Do Not Connect (future use) |                 |

- Power IN must be connected to a constant power source. This can be directly to the battery or other common sources like the license plate light or trailer running lights.
- Following best practices, it is highly recommended to use an inline fuse for the Power IN and Ignition IN connections.
- Individually insulate and secure each unused wire.
- Connect the Ignition wire only to a switched power source, or leave it disconnected if the hours of service feature is not in use. Do not connect the Ignition (grey) wire to the Power IN (pink) wire.
- When mounting under a trailer, position the tracker in an unobstructed location close to the perimeter of the trailer.