



## QUICK START GUIDE

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LapSnapper

Website address: [www.lapsnapper.com](http://www.lapsnapper.com)

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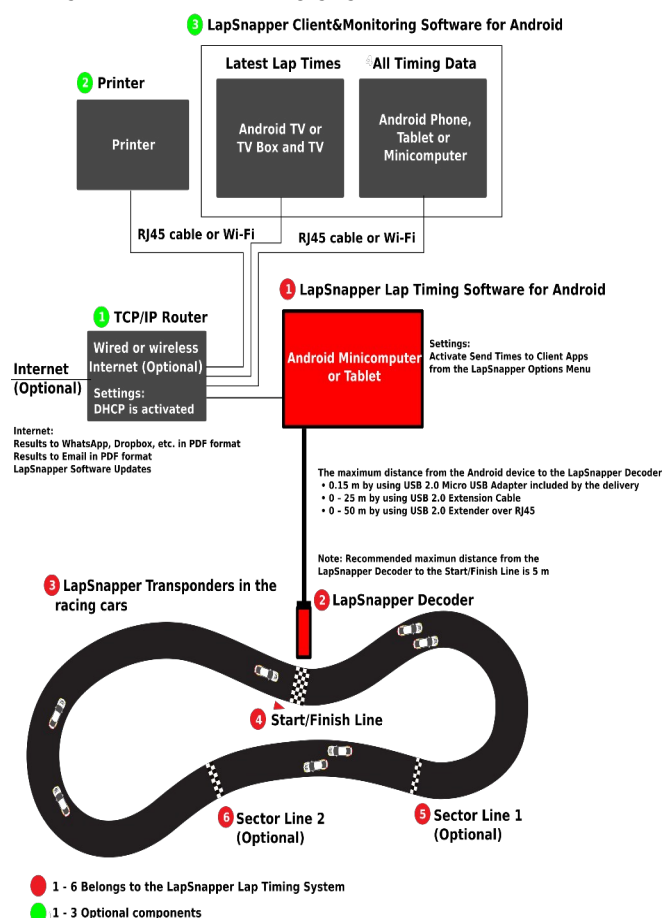


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## OVERVIEW

**LapSnapper is a transponder-based lap timing measurement system that includes lap timing software, a decoder, transponders, and start/finish lines. Built on proven technology, LapSnapper simultaneously measures and records lap and sector times for multiple drivers, while also managing practice and race sessions. It allows for real-time sharing of lap and sector times to LapSnapper Client & Monitoring devices via LAN or WiFi. These LapSnapper Client & Monitoring devices are portable smart devices running Android® and LapSnapper Client & Monitoring Software. LapSnapper is ideal for use in events, training sessions, and races.**

### LAPSNAPPER LAP TIMING SYSTEM



information to the LapSnapper Lap Timing Software. The LapSnapper Decoder is powered through the USB connector of the Android tablet or minicomputer, requiring no additional power source.

The **LapSnapper Lap Timing Software** is installed on an Android tablet or minicomputer to manage the lap time measurement process. This software interfaces with the LapSnapper Decoder to receive and process lap time data, while also communicating with the LapSnapper Client & Monitoring Software for real-time tracking and monitoring.

The **LapSnapper Client & Monitoring Software** communicates with the LapSnapper Lap Timing System via LAN. It is capable of measuring, displaying, and recording lap and sector times received from the system. Additionally, the software can host and manage race sessions, providing real-time monitoring and data management throughout the event.

**LapSnapper Magnetic Strips** are used to detect start/finish and sector lines on the race track. These strips can be embedded into asphalt, concrete, ground, or floor surfaces. The system supports up to three magnetic strips, allowing for one start/finish line and two sector lines. LapSnapper Magnetic Strips are passive and do not require any external power supply, making installation straightforward and efficient.

The **LapSnapper Transponder** is used to uniquely identify each racing car. Each transponder is assigned a unique ID known as the transponder ID, and every racing car must be equipped with its own transponder. The transponder detects when the car crosses a start/finish line (magnetic strip) and sends the time data to the LapSnapper Decoder. LapSnapper Transponders are compact, battery-powered devices that do not require an external power supply, ensuring ease of use and reliability.

The **LapSnapper Decoder** connects to an Android tablet or minicomputer that hosts the lap time measurement. It receives time data from the LapSnapper Transponder when the driver crosses a start/finish line and forwards this



## INSTALLATION OF LAPSNAPPER LAP TIMING SOFTWARE

**Step 1:** Download the **LapSnapper Lap Timing Software for Android** from the **LapSnapper Software Download Center** at [www.lapsnapper.com/download](http://www.lapsnapper.com/download). You will need the **product key**, which can be found on the label inside the product package.

**Step 2:** Open file manager of Android tablet and locate the **LapSnapperPro.apk** file. Double-click to start the installation and select Install. Follow the on-screen instructions to complete the process.

**Step 3:** When prompted, enter the **product key** to activate the software.

Once the **LapSnapper main menu** appears on the screen, the installation is complete and the software is ready to use!

## INSTALLATION OF THE LAPSNAPPER DECODER

**Step 1:** Connect the **LapSnapper Decoder** to the **USB connector** of your **Android tablet** or **minicomputer**. The recommended maximum distance from the decoder to the **start/finish line** is **5 meters**. If needed, use a **USB-C to USB 2.0 adapter** or a **USB extension cable**.

**Step 2:** When the **LapSnapper Decoder** is connected, the **LapSnapper Lap Timing Software** will prompt you for permission to open automatically. Select "**Use by default for this device**" and press OK to confirm.

The **LapSnapper Decoder** is successfully installed when the **LapSnapper main menu** appears on the screen.

## INSTALLATION OF THE LAPSNAPPER TRANSPONDER

**Step 1:** Select a suitable installation location for the **LapSnapper Transponder** on the racing car. Typically, the transponder is mounted on the base plate of the car, where it is protected from water, dirt, and shocks. Ensure the **maximum magnetic strip detection distance** is not exceeded: 13 cm with a single magnetic strip and 18 cm with a double magnetic strip. Avoid installing the transponder in areas with metal above or below it, as metal will block the magnetism and radio signals. The signal passes through materials like plastic, aluminium, and carbon fiber, but not metal.

**Step 2:** Install the **LapSnapper Transponder** at the selected location using **screws** or **double-sided tape**. Ensure the installation is secure and that the transponder is protected from water and dirt. Note that the transponder label has an arrow, which must point **forward** or **backward** during installation. Once installed, test the transponder to ensure it operates reliably.

## INSTALLATION OF LAPSNAPPER MAGNETIC STRIPS

**Step 1:** Identify the appropriate locations for the **start/finish line** and **sector lines** on the race track. Measure the width of each line and determine how many **LapSnapper Magnetic Strip Modules** are needed to cover the required length.

**Step 2:** Create a groove in the surface (ground, asphalt, concrete, or floor) that is **35 mm deep** and **15 mm wide**. This will be the space where the magnetic strips are placed.

**Step 3:** Carefully install the **LapSnapper Magnetic Strip** into the groove. Position the magnetic strip modules horizontally in a row with the narrower edge facing upwards. The modules should be placed without a gap between them. For a double magnetic strip, install two strips side by side.

**Step 4:** Use a strong adhesive to secure the magnetic strip firmly in place within the groove.

*Please ensure that the magnetic strip modules are positioned so that they push against each other and the magnetic strip modules are tightly pressed against each other!*



## ADDITIONAL INFORMATION

or detailed information about LapSnapper products, please refer to the LapSnapper User Manual. The manual is available on the LapSnapper website at: [www.lapsnapper.com/support/technical-documentation](http://www.lapsnapper.com/support/technical-documentation).

## WARNINGS

Although LapSnapper is a precision electronic lap timing system, improper use or misinterpretation may lead to unsafe conditions. By using these products, you accept full responsibility and use them at your own risk. To minimize potential risks, thoroughly review and understand all aspects of **LapSnapper User Manual** before using LapSnapper.

LapSnapper Magnetic Strips are made from ferrite magnets and should be handled with care to avoid accidents or damage. During installation, it is crucial to keep the magnetic strip modules sufficiently separated from metal objects and from each other. The recommended minimum distance between modules during installation is 0.5 m.

Avoid storing transponders near magnets. The minimum storage distance between the transponders and magnetic strips should be 0.5 m.

## LIMITED WARRANTY

LapSnapper products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. During this period, LapSnapper will, at its sole discretion, repair or replace any components that fail under normal use. Repairs or replacements will be provided at no charge for parts or labor, although the customer is responsible for any transportation costs.

This warranty does not cover:

- Cosmetic damage, including scratches, nicks, and dents;
- Consumable parts, such as batteries, unless damage is due to a defect in materials or workmanship;
- Damage caused by accident, abuse, misuse, water, fire, flood, or other external causes;
- Damage resulting from service performed by anyone other than an authorized LapSnapper service provider;
- Damage to products that have been modified or altered without written consent from LapSnapper.

Furthermore, LapSnapper reserves the right to refuse warranty claims for products or services obtained and/or used in violation of any local or international laws.

***This product is designed solely for lap time measurement and should not be used for any other purpose that requires precise time tracking.***