



Sprintshield

an overtaking companion

Sprintshield Touch

User Manual

Thank you for purchasing the Sprintshield Touch.

The POI based warning system that alerts you to roadside Traffic Cameras,
Speed Traps and other similar points of interest.

We welcome you to the new world of interactive roadmap Points of Interest.

Features include:

- Regularly updated and Over-The-Air delivered POI speed trap database
 - Adding of user POI locations to memory
 - 3G Internet connectivity
 - Li-ion battery
 - Bluetooth connectivity

Responsible driving should be hassle free and enjoyable, and this is the system
that guarantees plenty of enjoyment.

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Contents



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2. Sprintshield Touch Docking station
3. GPS antenna
4. Speaker
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Sprintshield Touch

Sprintshield Touch is a device that manages and alerts you about Points of Interest (POI) based on your GPS location. The device is primarily intended for car use. Sprintshield Touch uses GPS for location tracking, analyzing available POIs and displaying the nearest one on the screen. You can add or remove your own points of interest into the database.

Sprintshield Touch is the smallest of all similar POI based warning products, designed to be handy and enable discrete mounting in any car interior. It is equipped with a docking station so it can be powered at all times when the car is running. The product will be installed in a fixed position in the car. When the vehicle is not started, the product will continue to stand by through the battery.

Sprintshield Touch is equipped with 3G capability for easy internet software updates and enabling daily downloads and updates of POI database from the internet. The POI Database includes speed camera locations, red light cameras and similar points of interest and will receive regular updates. It is developed and maintained by professionals for drivers requiring a high level of accuracy and reliability.

Sprintshield Touch has a powerful external speaker used for POI notifications and alerts. Even if the Sprintshield Touch is left in a less visible position, the driver can rely on audio alerts from the speaker.

Location is monitored by an external GPS antenna supplied with your Sprintshield Touch. External GPS antennas are faster locking and more precise so you can rely on timely and precise notifications.

3G Internet connectivity

Internet connection is realized over inbuilt 3G modem. For its operation it is necessary to insert a nano-sized telecom operator SIM-card to the Sprintshield Touch. SIM-cards are purchased separately (in some cases a distributor may supply a SIM-card with the Sprintshield Touch).



SIM-card socket is located on the back of the Sprintshield Touch under a rubber protective door. Remove the door and slide the SIM-card locker to the right to unlock the locker. Open the locker and insert the SIM-card. Be careful to properly orient the SIM-card. Close the locker and return it to locked position to the left. Return the rubber door for proper humidity and dust protection.

Docking Station overview



Docking station performs routing of several important lines from the Sprintshield Touch to the outside.

- Power supply for charging of the internal battery and for operation while docked. Cable 1,5 m in length with a USB-A connector. Can be plugged to a supplied 12 V to 5 V adapter or to any USB charging socket.
- Speaker cable 1,5 m in length with a 3,5 mm female mono socket at the end. Connect the supplied speaker to the socket.
- GPS SMA female pigtail cable is to be connected to the supplied external GPS antenna.

Warning! Docking station routes signal from the GPS antenna to the Sprintshield Touch. When removed from the docking station the Sprintshield Touch will have difficulty determining its geographic location and thus alerting functions will be limited. Use the un-docked battery operation mostly for editing settings.

GPS Antenna and 12 V power adapter



External GPS antenna is supplied with the Sprintshield Touch. Antenna should be mounted with the view unobstructed view of the sky or under a plastic, glass or other non-metal vehicle part. Antenna is connected to the docking station and via pogo pins to the Sprintshield Touch.

Power converter that converts vehicle's 12 V power supply to 5 V is also supplied. Connect the red wire to the positive switched power supply +12 V and black wire to the vehicle chassis/ground or to the negative power supply.

Sprintshield Touch can also be powered by a standard USB power charger or vehicle USB power socket.

Speaker



Sprintshield Touch is delivered with a loud 3 W Speaker for crystal clear alerts even in noisy vehicle cabin surroundings. When using the Sprintshield Touch un-docked the audio signal is routed to the built-in speaker so navigating the settings will perform an audio feedback as well.

Sprintshield Touch layout



There are three buttons on the Sprintshield Touch housing.

1. Power button (mechanical button) – on the right side of the Sprintshield Touch.
2. Back level-up button (touch panel button) - on the lower right side of the bezel.
3. Drive-screen button (touch panel button) - on the upper right side of the bezel.

All other buttons appear on the screen itself and are dynamic.

Powering on

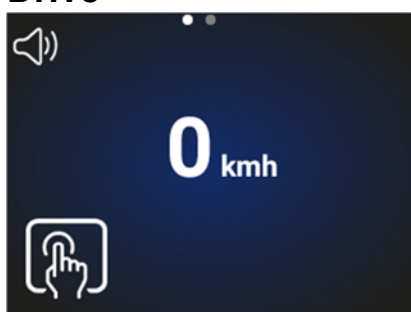
By pressing the power button for 1 second or longer you will turn on the Sprintshield Touch. It will also turn on automatically when it detects presence of 5 V charging voltage on its docking station.

Battery operation

Built-in li-ion battery allows 2 hours of autonomy when un-docked, while screen is on. While on standby, for instance while the vehicle is parked and unattended the battery on full charge will last for 20+ hours.

Screens

Drive



Once the introductory splash screen has finished loading the Sprintshield Touch will display the drive screen.

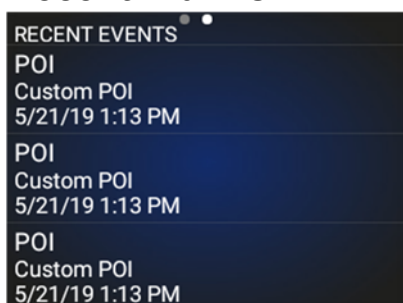
At the top of the screen there are two dots which indicate that there are two screens in total.



Touch-anywhere icon shows that whole drive screen is a button that opens up a key pad.

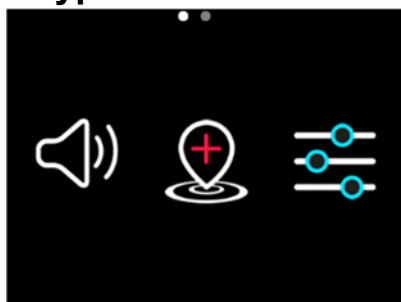
Swiping right will take you to the Recent Alarms Screen.

Recent Alarms



This screen displays information about alarms. The list can hold up to 100 entries and new alarms are shown at the top of the list.

Keypad



Touching the drive screen will open the Keypad with three buttons:

The add POI button. 

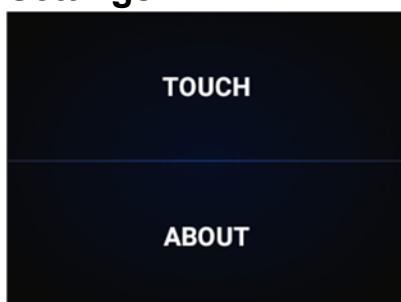
The Settings button. 

The Mute button.

Pressing it twice will mute the unit. 

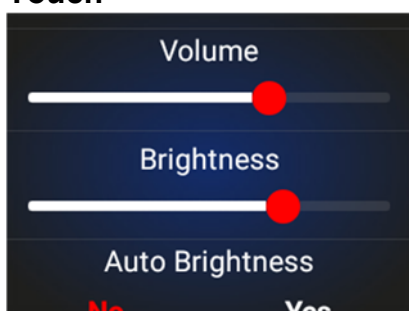
Pressing it three times will cycle to the beginning. 

Settings



The settings screen has two buttons each operating a separate menu, Touch and About.

Touch



The Touch menu holds the settings for the Sprintshield Touch unit itself.

These include:

Volume - volume intensity is set with the slider

Brightness – brightness intensity is set with the slider

Auto Brightness – Yes/No option

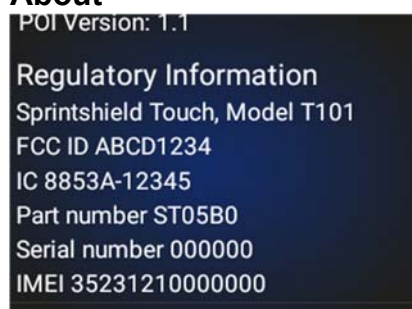
Speed Metric – kph or mph

Changing the language

If you prefer to change the default language of the Sprintshield Touch user interface you may do so under Settings, Language. The following languages are available for selection:

Chinese, Croatian, Czech, Dutch, English, French, German, Hungarian, Italian, Japanese, Korean, Russian, Spanish.

About

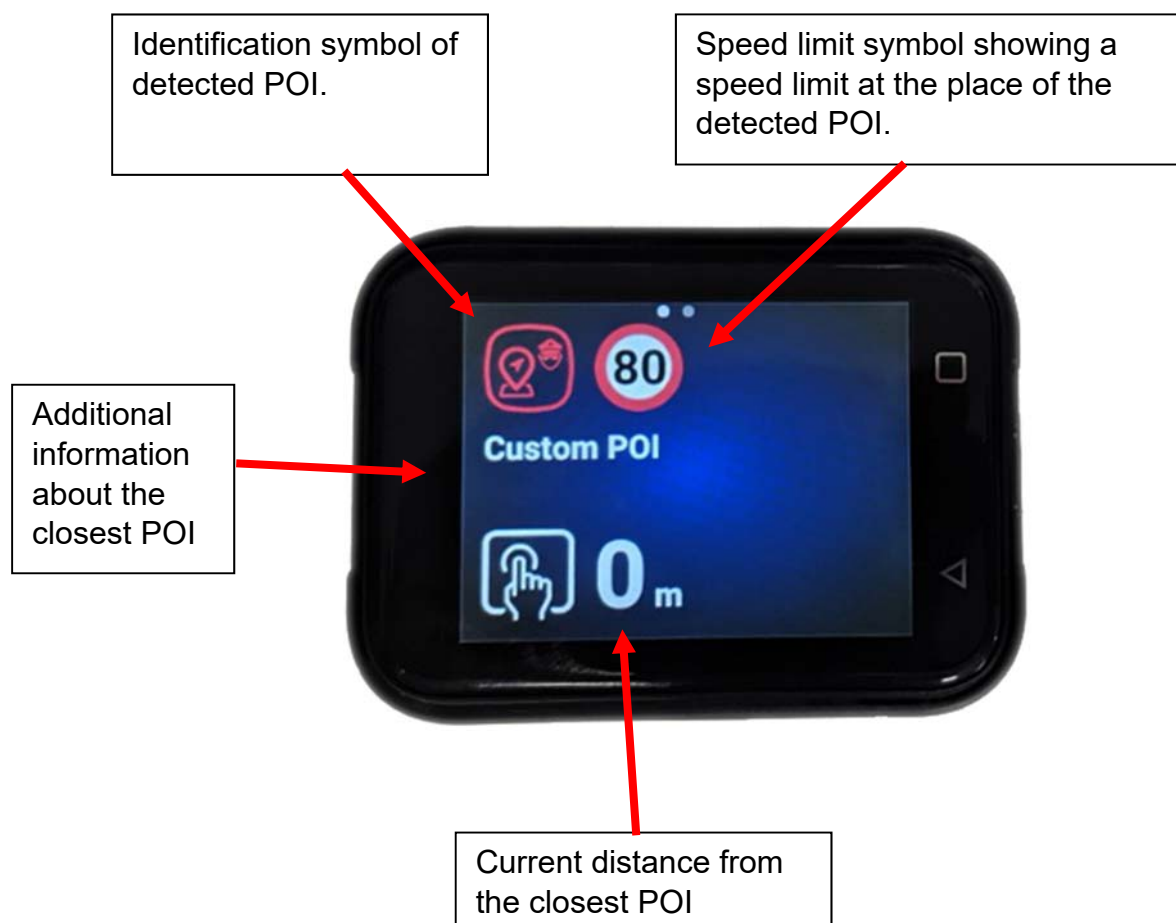


The About screen holds information about the unit. It displays unit region, version and POI database version.

It also displays regulatory information.

POI Alerts

Alert screen shows when a POI is detected in your proximity (closer than 500 m):



Adding new POI

By pressing the  icon you can add a record to the internal POI database. If there is no valid GPS signal lock you will receive the following warning. In that case wait while the system picks up a GPS signal lock or move to a better position.

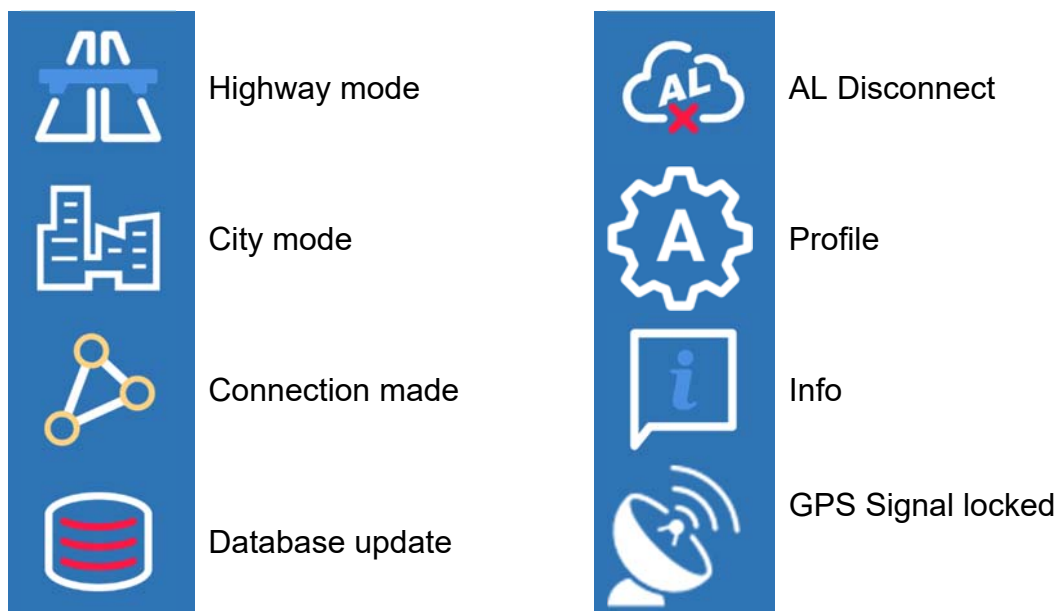


Icon glossary

Button and alert icons

	Suppress		Red light
	Un-suppress		Fixed camera
	Change highway mode		Mobile camera
	Change city mode		Checkpoint
	Info		Camera based alarm
	Help		POI based alarm
	Profile		Speed limit
	Settings		Mobile laser
	Add POI		Fixed laser
	System Error		System Warning

Status icons



Specifications

(Subject to change without notice)

Size and Weight

H x W x D: 43 mm x 61 mm x 16 mm (1.69" x 2.40" x 0.63")

Weight: 52 g (0.11 lb.)

Ambient requirements

Operating ambient temperature: -10° C to 60° C (14 F to 140 F)

Storage temperature: -20° C to 80° C (-4 F to 176 F)

Relative humidity: 0% to 90% noncondensing

Power

At 5 V supply, 10 mA (stand by)

At 5 V supply, 300 mA (screen on)

At 5 V supply, 700 mA Max. (screen on + speaker alerting)

At 12 V power adapter, 10 mA (stand by)

At 12 V power adapter, 150 mA (screen on)

At 12 V power adapter, 350 mA Max. (screen on + speaker alerting)

Battery

Rechargeable lithium-ion battery in-built

Screen on average time: 2+ hours

Standby average time: 20+ hours

Display

IPS capacitive touchscreen. 51.6 mm size (2").

Computer core

A7 Quad Core 1.3GHz

Connectivity

GSM, 2G, 3G, UMTS, nano-SIM card

Bluetooth 4.1

Connectors

Speaker, 3.5 mm mono

GPS, SMA male

Available languages

Chinese, Croatian, Czech, Dutch, English, French, German, Hungarian, Italian, Japanese, Korean, Russian, Spanish

Safety information

Read all instructions and safety information before use.

WARNING: FAILURE TO FOLLOW ALL THESE SAFETY INSTRUCTIONS BELOW COULD RESULT IN FIRE, ELECTRIC SHOCK, OR OTHER INJURY OR DAMAGE.

Sprintshield Touch is made of glass, metal and plastic and has sensitive electronic boards inside. Sprintshield Touch can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquid. Don't use a damaged Sprintshield Touch, as it may cause injury.

Don't open Sprintshield Touch and don't attempt to repair Sprintshield Touch by yourself. Disassembling Sprintshield Touch may cause injury to you or damage to Sprintshield Touch. If Sprintshield Touch is damaged, malfunctions, or comes in contact with liquid, contact Radikal d.o.o. service center.

Don't attempt to replace the Sprintshield Touch battery yourself—you may damage the battery, which could cause overheating and injury. The lithium-ion battery in Sprintshield Touch should NOT be replaced and must be recycled or disposed of separately from household waste. Don't incinerate the Sprintshield Touch.

Charge Sprintshield Touch with the included docking station and optionally a vehicle 12 V to USB 5 V adapter.

Using damaged cables or third-party chargers, or charging when moisture is present, can cause electric shock. When you use the docking station to charge Sprintshield Touch, make sure that the Sprintshield Touch is fully inserted in the docking station.

Listening to sound at high volumes may damage your hearing. Background noise, as well as continued exposure to high volume levels, can make sounds seem quieter than they actually are.

WARNING: To prevent possible hearing damage, do not listen at high volume levels for long periods.

Sprintshield Touch and its docking station comply with applicable surface temperature standards and limits. However, even within these limits, sustained contact with warm surfaces for long periods of time may cause discomfort or injury.

Use common sense to avoid situations where your skin is in contact with a product when it's operating for long periods of time.

Observe signs and notices that prohibit or restrict the use of Bluetooth/3G (for example, in healthcare facilities). Although Sprintshield Touch is designed, tested, and manufactured to comply with regulations governing radio frequency emissions, such emissions from Sprintshield Touch can negatively affect the operation of other electronic equipment, causing them to malfunction. Turn off Sprintshield Touch to shutdown wireless transmitters when use is prohibited or when asked to do so by authorities.

Sprintshield Touch contains radios that emit electromagnetic fields. These electromagnetic fields may interfere with pacemakers or other medical devices. If you wear a pacemaker, maintain at least 6 inches (approximately 15 cm) of separation between your pacemaker and Sprintshield Touch. If you suspect Sprintshield Touch is interfering with your pacemaker or any other medical device, stop using Sprintshield Touch and consult your physician for information specific to your medical device. Sprintshield Touch has magnets which may interfere with pacemakers, defibrillators or other medical devices. Maintain at least 6 inches (approximately 15 cm) of separation between your pacemaker or defibrillator and Sprintshield Touch.

If you have any other medical condition that you believe could be affected by Sprintshield Touch (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using Sprintshield Touch.

Do not charge or use Sprintshield Touch in any area with a potentially explosive atmosphere, such as at a fueling area, or in areas where the air contains chemicals or particles (such as grain, dust, or metal powders). Obey all signs and instructions.

Choking hazard! Sprintshield Touch and some of its accessories may present a choking hazard to small children. Keep these away from small children.

Handling information

Clean Sprintshield Touch immediately if it comes in contact with anything that may cause stains—such as dirt, ink, makeup, or sunscreen. To clean:

- Undock from the station and turn Sprintshield Touch off.

- Use a soft, lint-free cloth.
- Avoid getting moisture in openings.
- Don't use cleaning products or compressed air.

Sprintshield Touch is designed to work in ambient temperatures between -10° C and 60° C (14 F to 140 F) and stored in temperatures between -20° C to 80° C (-4 F to 176 F). Sprintshield Touch can be damaged and battery life shortened if stored or operated outside of these temperature ranges. Avoid exposing Sprintshield Touch to dramatic changes in temperature or humidity. When you're using Sprintshield Touch or charging the battery, it is normal for Sprintshield Touch to get warm.

If the interior temperature of Sprintshield Touch exceeds normal operating temperatures (for example, in a hot car or in direct sunlight for extended periods of time), you may experience the device stops charging and/or turns off.

Product model and Regulatory information

Sprintshield Touch
Model: T101



About your Sprintshield Touch

Regulatory and unique device ID information can be viewed by going to Settings and then pressing About.

To help Radikal d.o.o. improve its products and services and according to the Terms of usage, Sprintshield Touch automatically sends diagnostic and usage data. Please read carefully the Terms of usage before accepting and using the product.

Update Sprintshield Touch software

Your Sprintshield Touch will automatically connect to the Sprintshield.com servers and query for available updates of both the POI database and product firmware. If found they will be automatically downloaded and installed.

Factory Restore

To erase all settings and databases and revert your device to factory state press the Factory restore option under settings. This process takes some time and may ask for confirmations along the way.

Canadian regulatory statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warning! Changes or modifications to this product could void the CE and FCC compliance and negate your authority to operate the product.

Recycling information



This product contains a battery and as such must be disposed of separately from household waste. Radikal d.o.o. considers task of keeping our environment clean very important and will give maximum efforts to extend the usability of your Sprintshield Touch via OTA updates and servicing & warranty plans. At the time that you consider renewing the product we ask you to contact us first and ask about Sprintshield Touch renewing programs. When finally disposing of the product your local laws and regulations regarding recycling must be followed.

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FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body