



Thank You for Your **LUXSENSE SUPPORT!**

GETTING STARTED IS QUICK AND EASY — JUST FOLLOW THESE TWO STEPS:

I. DOWNLOAD THE LUXSENSE APP

📲 Scan one of the QR codes below to download the app or search for our app within your app store:



IOS



ANDROID

Once installed, open the app and:

1. Accept all requested permissions
2. Enter your **Registration ID** (provided with your order)
3. You'll then be taken to the main menu

II. POWER ON AND PAIR YOUR LUXSENSE SENSOR

🔌 Plug in the power adapter; the display will step through startup messages:

- “Powering up ...”
- “Sensor: [device type]”
- “LuxSense Version [x.x.x]”
- “LuxSense Device ID [Lux..]”
- “LuxSense Device Name [Name Your Sensor]”
- “Sensor can now connect to your LuxSense app”

Then, in the LuxSense app:

1. Go to Settings menu option
2. Follow the in-app instructions to pair your sensor
3. New sensors will appear as UNASSIGNED in your list
4. You'll need your valid WiFi credentials to complete setup

📞 If you need help at any point, our team is here for you.
support@luxsense.tech



LuxSense DriveSentry

Keep informed whenever someone enters or exits your property



Whether you have a long, remote driveway or a shorter entryway, LuxSense DriveSentry delivers monitoring to keep you informed whenever someone enters or exits your property. It's also an ideal solution for low occupancy vacation homes, ensuring you receive real-time notifications without the need for Wi-Fi or electrical connections at the driveway location (Wi-Fi is required within the home for the in-house unit).

INSTALLATION



WHAT'S IN THE BOX

1. DriveSentry Receiver (artisan wooden box; indoor unit)
2. DriveSentry Transmitter (outdoor enclosure with solar panel)
3. Magnetic Probe with attached cable
4. Grounding Post with connecting cable
5. Antenna Extension Cable for optional use with the outdoor unit
6. 12V Battery Charger/Maintainer for initial battery charge and recharge if needed
7. Ships separately: a 12 V battery for the transmitter enclosure.

BEFORE YOU BEGIN:



SAFETY: CALL YOUR LOCAL UTILITY-LOCATING SERVICE BEFORE DIGGING.

Overall steps are below – please do so in the order presented:

Step 1 — Choose locations (driveway probe + transmitter)

Step 2 — Install outdoor hardware

Step 3 — Configure the indoor receiver

STEP 1 — CHOOSE LOCATIONS (PROBE + TRANSMITTER)



Driveway sensor probe placement (critical for sensitivity):

- Lay the probe parallel to the driveway at the desired location, 4–8 in (10–20 cm) from the pavement edge.
- The cable should be able to route safely across the yard to the planned transmitter spot.
- The probe and the cable will be buried in step 2.



Transmitter placement:

- The solar panel on the lid must face south with direct sun most of the day in order to charge the battery.
- Keep it clear of mower/snowplow paths and easy to access for maintenance.
- Create a level pad, set the box, and optionally surround with mulch to reduce grass growth.

Ground post location:

- Place the post within a few feet of the transmitter.
- The ground cable will run to the ground connector on the back of the transmitter.
- Confirm the location is within cable reach of the preferred buried probe and ground post.

STEP 2 — INSTALL HARDWARE



Ground post

- Attach the ground cable to the ground connector on the transmitter's back side.
 - Push, or gentle tap with a hammer, the ground post (steel rod) flush with the soil.
 - Bury or protect the ground cable to avoid damage.
 - Excess cable can be coiled and placed behind the transmitter box.
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Bury the magnetic probe

- Bury parallel to the driveway, ≈4 in (10 cm) deep and ≈4 in (10 cm) from the edge.
- Bury the probe cable in a shallow trench but deep enough to prevent damage from mowing etc.
- Do not shorten the probe cable—coil excess neatly behind the transmitter.



Install the battery (ships separately)

- Prepare the battery per its instructions. It may require a full charge before proceeding using the supplied 12V charger.
- Inside the transmitter enclosure, connect the two connectors to the two connectors connected to the battery. They are wrapped with a white tag for identification (either one can be connected to either battery connector):
RED → (+) and BLACK → (-).



Attach the antenna

- Screw the supplied antenna onto the connector on the back side of the enclosure.
- (Optional) Use the extension cable to mount the antenna higher (e.g., post/tree) for better RF line-of-sight.



Power-on check

- Inside the transmitter, the white EMX 101 controller should show a green power LED.
- The LuxSense module display should wake and show a voltage reading (approximately 5.0 V).
- If either is off or the EMX shows red, recheck battery polarity and connections.



Close the lid

- Seat the lid with the solar panel facing south.
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STEP 3 — CONFIGURE THE INDOOR RECEIVER



Place the DriveSentry Receiver indoors, ideally near a window facing the transmitter. Once it is functioning properly you can place it further from the window based on the reception range in your home.

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Then, in the LuxSense app:

- Go to Settings menu option
- Follow the in-app instructions to pair your sensor
- New sensors will appear as UNASSIGNED in your list
- You'll need your valid WiFi credentials to complete setup
- Wait for confirmation within the app that all credentials have been saved.
- You may now exit the app (by 'kicking it out' based on your phone's steps to do so).
- If the sensor did not automatically reboot – please unplug it and plug it back in.



Pairing with the outdoor unit

- Pairing with the outdoor unit
- A small LED will flash within the sensor during startup; it will stop when complete.
- The transmitter sends pairing beacons periodically; this allows your receiver to auto-pair with the transmitter.
- You'll see a confirmation message with the transmitter's unique ID.



You're ready to test detection and fine-tune sensitivity.

DRIVESENTRY — OPERATION & BASIC ADJUSTMENTS



Hands-off by design. Once DriveSentry is installed and configured, it should run unattended. You'll only need to intervene if you want to change sensitivity, if sunlight hasn't kept the battery charged, or when the battery reaches end of life.



Keep these configuration notes for future reference. Installation instructions follow in a later section.

USER-ADJUSTABLE SETTINGS



Sensitivity

How readily the sensor reacts to a vehicle's metal mass moving near the buried probe.

- Increasing sensitivity detects smaller vehicles and vehicles farther from the probe or moving quickly, but can increase false triggers (e.g., nearby equipment).
- Adjustment: Turn the sensitivity trim counter-clockwise to increase and clockwise to decrease (arrow marks on the sensor label). Use a small Phillips screwdriver.

RECOMMENDED STARTING POINT



Use DriveSentry as delivered. We preset sensitivity to mid-range for reliable, low-noise operation in typical driveways.



After a few days of use, if you want a more sensitive detection, turn counter-clockwise in small steps, testing with an actual vehicle after each change. If you see unwanted triggers (e.g., distant road traffic or parked machinery), turn clockwise one step.

BATTERY & POWER NOTES



DriveSentry sends a daily battery-voltage notification to your phone, but voltage alone does not always reflect battery health (charging can temporarily raise voltage).



If driveway passes stop generating notifications—and the system previously worked—check the battery first.

1. Remove the battery from the DriveSentry box.
 2. Charge it with the provided 12 V charger until full.
 3. Reconnect and allow a few minutes for DriveSentry to self-configure after power-up.
- If proper operation does not resume after a full charge, the battery is likely at end of life and should be replaced.
 - Solar performance varies by season, shading, panel orientation, and weather. In low-sun periods, occasional bench charging may be needed.
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QUICK TROUBLESHOOTING



Too many alerts (false triggers): Decrease sensitivity one step, ensure the probe is fixed and away from moving metal (gates, trailers, mower decks).



Missed detections (small cars, fast passes): Increase sensitivity one step and retest.



No alerts at all: Confirm power, charge the battery, then test again after restart.



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