

LOW OVERPASS-CLEARANCE AND VEHICLE LENGTH WARNING DEVICE

INTULON OVAPAS

User Manual

Manual edition 2026-08-20 · intulon.com · ova.intulon.com

1. In the box

- Intulon OVAPAS device
- USB cable

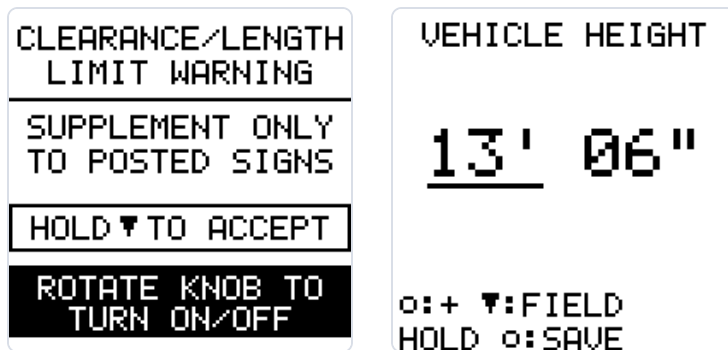
[Photo: package contents — to be added]

2. Device overview

[Photo: device with labeled controls — to be added]

Power knob	Top of the device. Rotate to turn the OVAPAS on and off. The rotary ring also adjusts the screen backlight brightness (while BACKLIGHT is ON in Settings — see §6).
GPS switch	Two-position side switch labeled GPS. Leave it ON — the OVAPAS cannot warn without GPS.
○ button	Middle side button: open a menu item, change a value. Hold it to save.
▽ button	Lower side button: move down a list or between fields. Hold it to go back, open the menu, or accept the start-up notice.
Blue light	Steady = the OVAPAS is on. Blinking = active hazard alert. Off = the device is off (the screen keeps its last image even without power — always check the blue light).
Beeper	Sounds hazard alerts and button feedback. See §7 to turn audio off.

3. Getting started



Start-up notice

First-run height entry

1. Rotate the power knob to turn the OVAPAS on. The blue light comes on steady.
2. Read the notice and hold ▽ to accept. The OVAPAS's warnings are a **supplement only to posted signage** — never a substitute for it.
3. The first start asks for your **vehicle height** — the tallest point, including anything on the roof. Press ▽ to step the value, ○ to move between feet and inches, and hold ○ to save.
4. Place the device on your dash with a clear view of the sky. GPS normally locks within a minute.

Set your height honestly and re-check it whenever the load changes. A roof box, antenna, or trailer can make yesterday's safe bridge today's accident.

4. The status screen



Waiting for GPS



Driving



Overpass ahead

- **GPS:** the top row shows your live speed (or NO GPS while acquiring a fix). **HT:** is your vehicle **height**; **LT:** is your vehicle **length** (OFF means no length is set, so length restrictions are not checked).
- **AHEAD** appears when a known overpass or restriction is within about a mile in your direction of travel, with its posted limit and live distance — whether or not it is a problem for your vehicle.
- The battery icon sits bottom right. HOLD ▽: MENU opens Settings (parked only — settings are locked while driving).

If you can see a bridge and the screen shows nothing ahead, that bridge is not in the database. The OVAPAS can only warn about what it knows. Obey posted signs first, always.

5. Alerts



Advisory



Muted



Urgent

When a hazard ahead is too low (or too long) for your vehicle:

- 1. **Advisory** — at your warning distance: a two-tone warble and an inverted banner with the posted limit and live distance. It repeats at your chosen interval while you approach.
 - 2. **Urgent** — close to the hazard: the screen inverts entirely and the warble turns fast and insistent.
 - 3. **Passed** — once you are beyond the hazard, the OVAPAS stands down on its own.
- Press **any button** during an alert to mute that alert; the banner stays until the hazard is passed. A new hazard alerts normally again.

6. Settings

SETTINGS	
HEIGHT	13'06"
LENGTH	OFF
WARN DIST	1000FT
REPEAT	30S
UNITS	FT/IN
AUDIO	ON
▽:NEXT ○:OPEN	

Settings

SETTINGS	
REPEAT	30S
UNITS	FT/IN
AUDIO	ON
BACKLIGHT	ON
INFO	
EXIT	
▽:NEXT ○:OPEN	

More items below

▽ **press**

○ **press**

○ **hold**

▽ **hold**

Move down the list / next field

Open the selected item / change the value

Save

Back without saving

VEHICLE HEIGHT
13' 06"
○: + ▽:FIELD HOLD ○:SAVE

Vehicle height

VEHICLE LENGTH
OFF
○: + HOLD ○:SAVE

Vehicle length

WARN DIST
1000FT
○: + HOLD ○:SAVE

Warning distance



Repeat interval



Units



Backlight



Info

SETTING	WHAT IT DOES
HEIGHT	Your vehicle height — the basis of every clearance warning.
LENGTH	Your vehicle length, for posted length restrictions. OFF disables length warnings.
WARN DIST	How far before a hazard the first alert sounds.
REPEAT	How often the alert repeats while you keep approaching.
UNITS	Feet/inches or metric, everywhere.
AUDIO	Alert and button sounds on or off (\$7).
BACKLIGHT	Screen backlight on or off. The brightness knob only works while BACKLIGHT is ON. The backlight stays faintly lit even at the knob's lowest setting, so switching it OFF extends battery life when you don't need it.
INFO	Firmware version.

7. Audio on/off



Audio setting

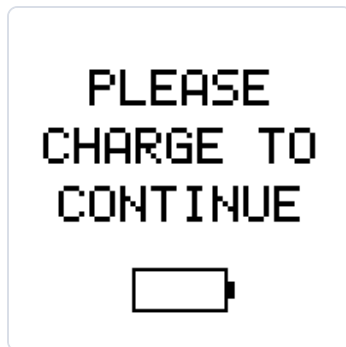


AUDIO OFF band

Turn all sound off in Settings > AUDIO, or hold ○ on the status screen. While audio is off the status screen shows an unmissable **AUDIO OFF** band, and visual alerts (screen + blinking light) continue.

Audio always returns to ON when the device restarts — a silenced device never stays silenced by accident.

8. Battery



Battery empty

- Charge with the included USB cable. The battery icon (status screen, bottom right) shows the level.
- At **10%** the OVAPAS sounds three low beeps, repeating occasionally.
- At **5%** it beeps urgently and the screen changes to **PLEASE CHARGE TO CONTINUE**. If the battery then runs out, that message stays on the screen — a reminder the device is no longer protecting you.

9. Updates

Firmware updates (including refreshed hazard data) are free. On any computer:

1. Download the **OVAPAS updater** for your system from **ova.intulon.com** (Windows, macOS, Linux). On Linux, make it executable first: **chmod +x intulon-ova-update-linux-amd64**.
2. Connect the OVAPAS with the included USB cable and turn it on.
3. Run the updater — it finds the device, downloads the latest updates, and applies them. The OVAPAS verifies every update before installing and restarts by itself; your settings are kept.

An interrupted update cannot damage the device — simply run the updater again.

10. Important safety information

The Intulon OVAPAS is a driver aid. Its warnings are a **supplement only to posted signage and never a substitute for it**. Clearance and restriction data may be incomplete or out of date; the absence of a warning never means a route is safe. Always obey posted limits and plan routes appropriate for your vehicle. Keep your configured vehicle height and length current.