



**GROUND
POSITIONING
RADAR**

444 Somerville Ave
Somerville, MA 02143
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617.902.0318

Company Name: GPR, Inc.
Address: 444 Somerville Ave
Somerville, MA 02143

Product Name: GroundSense

Model Number: 166-53-05NA-E

FCC ID: 2BBDZ166-53-05NA-E

The FCC has granted GPR, Inc. a limited waiver of sections 15.509(b) and 15.525 so that the GroundSense system and its accessories can now be granted UWB certification. This action was adopted and released by the Chief of the Office of Engineering and Technology (OET) on 02 November 2023 and is described in DA 23-1041 and DA-23-1109.

The equipment being submitted for product approval is operating and will be sold using specifications that exactly match the test results performed by Advanced Compliance Laboratory, Inc. These specifications are within all constraints as defined in the FCC's granted UWB waiver of Sections 15.509(b) and 15.525 of the Commission's Rules.

Furthermore, GPR, Inc. guarantees that all conditions listed in the granted waiver, as described below, will be complied with for all relevant equipment sold by GPR.

1. The GPR system shall be certified by a designated Telecommunication Certification Body and must comply with the technical specifications applicable to operation under Part 15 of 47 CFR, except as permitted below:
 - a. The operational limitations in 47 CFR § 15.509(b) are waived to permit the operation of the GPR system by the general public.
 - b. The requirement in 47 CFR § 15.525 requiring coordination of devices with the federal government through the Office of Engineering and Technology prior to operation is waived.
2. The GPR device shall operate only in the bands 137-322 MHz and 335.4-400 MHz. It shall not produce intentional emissions below 137 MHz, above 400 MHz or in the 322-335.4 MHz band. Emissions below 137 MHz and above 400 MHz must comply with the applicable limits, e.g., those in Section 15.209 at frequencies at or below 960 MHz and those in Section 15.509 at frequencies above 960 MHz.
3. Emissions from the GPR device in the following bands shall not exceed the following limits, measured using a CISPR quasi-peak detector as specified in Section 15.209(d):
 - a. 320.6-322 MHz: linearly interpolated between the Section 15.209(a) limit at the lower end of the band and 10 dB below the Section 15.209(a) limit at the upper end of the band.
 - b. 322-335.4 MHz: 10 dB below the Section 15.209(a) limit.
 - c. 335.4-336.8 MHz: linearly interpolated between 10 dB below the Section 15.209(a) limit at the lower end of the band and the Section 15.209(a) limit at the upper end of the band.



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4. The GPR device shall comply with all other technical and operational requirements applicable to UWB ground penetrating radar devices under Part 15, Subpart F of the Commission's rules.
5. The GPR device may operate only when mounted under a vehicle and pointed at the ground.
7. The GPR device may not operate when the vehicle ignition is turned off.
8. If more than one GPR device is installed on a vehicle, the devices must transmit independently (e.g., non-synchronously).
9. GPR shall include conditions 5, 7 and 8 above in its sale contracts with its customers.
10. Sales of the GPR device authorized under this waiver grant shall be limited to 30,000 vehicles, of which up to 1,000 vehicles shall be permitted to incorporate two GPR units, for a total of up to 31,000 GPR units. Deployments of the GPR device after 2024 may be increased subject to agreement with the Commission and the concurrence of NTIA.
11. GPR shall promptly report any incidents of interference attributable to the GPR device to the Commission and shall provide a copy of such report to NTIA.
12. Within 60 days after December 31, 2024, GPR shall file with the Commission a report containing the details of its U.S. deployments of the GPR device. A copy of such report shall be provided to NTIA. The report may include information about deployments of the GPR device outside the United States.
13. The waiver conditions granted herein are not transferable to any third party via §2.933 or any other means of technology transfer.
14. This waiver and its conditions shall apply only to the UWB devices described herein and are not to be considered to apply generally to any other UWB operations where further analysis would be necessary to assess the potential for impact to other authorized users.
15. A copy of this Order shall be provided with the application for certification of the device.

Signed for and on behalf of: GPR, Inc.

Moran David

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