

From
PT-MT/PXP1

Our Reference
Heiko Sgarz

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Leinfelden
11 January 2022

Report

Issue 1.0
Topic **D-tect200C – FCC Waiver Conditions**
Description This document describes how the FCC Waiver conditions (DA-22-8A1) are met.

Condition 1

The D-tect 200 single hop step shall have a bandwidth of less than 1 kHz.

Yes. See operation description.

Condition 2

The intentional emissions generated by the D-tect 200 must be completely contained within the 1.8 to 5.7 GHz frequency range.

Yes. See operation description.

Condition 3

The D-tect 200 shall operate with frequency hopped modulation in 30 steps between 1.8 and 5.7 GHz.

Yes. See operation description.

Condition 4

The D-tect 200 maximum average transmission on-time shall be no less than 50 microseconds, the average transmission off-time shall be 15 microseconds or less. The maximum of the average ramp time shall be 2.3 milliseconds, resulting the maximum average dwell time to be 77 microseconds (2.3 milliseconds / 30 steps = 77 microseconds).

Yes. See operation description.

Condition 5

The device shall include a feature to ensure that it will only transmit when placed in contact with or close proximity to the building structure being measured and/or evaluated.

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Yes. See document on “TX disabling logic”.

Condition 6

The D-tect 200 will not transmit continuously and will cease transmission 10 seconds after no movement.

Yes. See document on “TX disabling logic”.

Condition 7

For certification testing, the measurement of the emissions from the Bosch D-tect 200 shall be conducted with the hopping function active.

The hopping function has been active for all measurements contained in the test reports as it is active for the series device, if not stated differently.

Condition 8

The D-tect 200 devices shall comply with all other technical and operational requirements applicable to UWB wall imaging devices under Part 15, Subpart F of the Commission’s rules.

See the test report included.

Condition 9

The waiver conditions granted herein are not transferable to any third party via §2.933 or any other means of technology transfer.

The waiver will only be used by Robert Bosch LLC and its affiliates including private label customers as discussed with the FCC.

Condition 10

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.

We are aware of this.

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Condition 11

The total U.S. sales of D-tect 200 devices shall not exceed 6000 devices, annually.

Robert Bosch LLC will ensure to limit the sales to the stated number for the sum of devices from Bosch and its affiliates including private label customers. A reporting of the quantities from the records is possible upon request.

Condition 12

The D-tect 200 device shall not be marketed for retail consumer markets. The D-tect 200 device will be used by those engaged professionally in the building and construction trades.

- \$1.199 USD recommended retail price is high compared to stud finders or common multi detectors in the market (\$50-\$200), is not likely a not professional user spends this money in this tool.
- Not in retail, this product is sold just in construction / tools specialized dealers (White Cap, Grainger, etc), these dealers' customers are basically professionals.
- Most of this product is sold via our MDMs (technical assisted sales), who can indicate the correct tool to the user avoiding a not professional user to buy this product
- The packaging includes labelling stating "For professional use only."
- The user manual states that "Device operation is limited to those engaged professionally in the building and construction trades."

Condition 13

The D-tect 200 device package shall include labelling stating "For professional use only."

See packaging artwork.

Condition 14

The user manual for the D-tect 200 will clearly state that "Device operation is limited to those engaged professionally in the building and construction trades."

See operating instructions, page 11.

Intended Use

Device operation is limited to those engaged professionally in the building and construction trades.

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Condition 15

Upon grant of this waiver, Bosch will abide by its commitment to no longer manufacture equipment under the waiver, DA 11-899, granted by OET on May 23, 2011 in ET Docket No. 10- 253.

The production of the D-tect150 and private label variants (under the waiver DA 11-899) has been stopped before the waiver grant and will not be started again.

Condition 16

A copy of this Order shall be provided with the application for certification of the device.

A copy of the waiver is included with the filing.

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