ECOVACS Robotics Co., Ltd.
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Modular Approval Request Letter

FCC ID: 2AAL3-LSD4RF **Data: May. 18, 2014**

Gentlemen:

There's an 2.4G module that would like to have your authorization as a modular approval.

The specific product as below, 2.4G module, with its designed features and specified description, meets special requirements for full modular approval on FCC Public Notice KDB996369 Released: June 26, 2000 by cross-reference list below.

Company	: ECOVACS Robotics Co., Ltd.
Model Name	: 2.4G module
Model Number	: **LSD4RF-25410N15**
FCC ID	: **2AAL3-LSD4RF**

Requirement of Public Notice KDB996369/ Part 15.212	Reference to **LSD4RF**
1. The modular transmitter must have its own RF shielding.	The module has its own RF shielding. Please see external photo.pdf The RF circuit has been covered with the 2.4G module shielding which was connecter to GND.
2. The modular transmitter must have buffered modulation/data inputs.	The modular has buffered data input. It is integrated in chip CC2500. Please see schematic.pdf and datasheet of CC2500 for details.
3. The modular transmitter must have its own power supply regulation.	All power lines derived from the host device are regulated before energizing other circuits internal to the LSD4RF. Please see schematic.pdf and datasheet of CC2500 for details.
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).	The LSD4RF meets the FCC antenna requirements. The internal antenna was printed on the 2.4G module. Please see external photo.pdf
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing.	The LSD4RF was tested in a stand-alone configuration. Please see set-up photo.pdf
6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	The label position of LSD4RF is clearly indicated. Please see the label.pdf The FCC ID number will be shown on the label outside the host.
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.	The LSD4RF is compliant with all applicable FCC rules. Detail instructions are given in the Users Manual. Please see Installation guide.pdf
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).	The LSD4RF comply with applicable RF exposure requirements. Please see Maximum Permissible Exposure.pdf

Thank you.

Sincerely,

GengHongxia / Certificate Engineer

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