

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL

(Nature of Service)

WJ9XDY

(Call Sign)

XT MO

(Class of Station)

0006-EX-AL-2016

(File Number)

NAME iRobot Defense Holdings, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Station Locations

- (1) MOBILE: Bedford, MA, within 1 km, centered around NL 42-30-23; WL 71-14-36
- (2) MOBILE: Ayer, MA (MOORE ARMY AIR FIELD), within 1 km, centered around NL 42-34-18; WL 71-36-12
- (3) MOBILE: MANSFIELD, MA (DEVENS BUENA VISTA AVE), within 1 km, centered around NL 42-32-49; WL 71-36-38
- (4) MOBILE: PEPPERELL, MA (PEPPERELL AIR FIELD), within 1 km, centered around NL 42-41-42; WL 71-33-00
- (5) MOBILE: CLINTON, MA (Clinton Ma Abandoned Train Tunnel), within 1 km, centered around NL 42-24-18; WL 71-41-02
- (6) MOBILE: Devens, MA (FT Devens Buena Vista test site), within 1 km, centered around NL 42-32-49; WL 71-36-38

Frequency Information

MOBILE: Bedford, MA, within 1 km, centered around NL 42-30-23; WL 71-14-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	20M0W7D 10M0W7D	13.5 W (ERP)	

This authorization effective February 23, 2016 and
will expire 3:00 A.M. EST May 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Ayer, MA (MOORE ARMY AIR FIELD), within 1 km, centered around NL 42-34-18; WL 71-36-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	20M0W7D 10M0W7D	13.5 W (ERP)	

MOBILE: MANSFIELD, MA (DEVENS BUENA VISTA AVE), within 1 km, centered around NL 42-32-49; WL 71-36-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	20M0W7D 10M0W7D	13.5 W (ERP)	

MOBILE: PEPPERELL, MA (PEPPERELL AIR FIELD), within 1 km, centered around NL 42-41-42; WL 71-33-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	20M0W7D 10M0W7D	13.5 W (ERP)	

MOBILE: CLINTON, MA (Clinton Ma Abandoned Train Tunnel), within 1 km, centered around NL 42-24-18; WL 71-41-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	20M0W7D 10M0W7D	13.5 W (ERP)	

Frequency Information

MOBILE: Devens, MA (FT Devens Buena Vista test site), within 1 km, centered around NL 42-32-49; WL 71-36-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	MO	20M0W7D 10M0W7D	13.5 W (ERP)	

Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The National Science Foundation notes footnote US 342, urging all practicable steps be taken to protect Radio Astronomy observations in the frequency range 1330 to 1400 MHz. This is a very important frequency range and is actively used by radio astronomers in the US. The NSF does not object to these tests, since these devices are said to be operated on the ground and at low power. The NSF requests that "all practicable steps shall be taken to protect the radio astronomy service from harmful interference."