BARRETT COMMUNICATIONS

HF & VHF Radio Communications

ABN 97 009 349 642
ACN 009 349 642
Barrett Communications Pty Ltd
47 Discovery Drive
Bibra Lake, Western Australia 6163
P O Box 1214, Bibra Lake WA 6965
Tel: +618 9434 1700
Fax: +618 9418 6757
information@barrettcommunications.com.au
www.barrettcommunications.com.au

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Product Name: 4050 HF Transceiver

Barrett Communications Pty Ltd hereby certify that all 4050 units bearing the FCC logo will contain a software region lock that will prevent the product being used in a manner contrary to that allowed by FCC Part 90 rules. This software region lock will restrict modification of the following Software definable RF parameters:

1. **AGC Attack/Gain:** are not modifiable.
2. **Modulation Types:** are factory programmable only and are limited to the certified J3E and H3E emissions.
3. **Output Power:** is factory programmable only and limited to a maximum of 150W.
4. **Transmit Frequencies:** are factory programmable only and are restricted to licensed frequencies in the range of 1.6MHz and 30MHz.

All FCC 4050s are shipped from the factory pre-programmed with only authorized frequencies and are not modifiable by end users. The 4050 transceiver is only supplied by authorized dealers who program the radio's frequencies to ensure that frequencies are restricted to only those licensed to the end-user.

Barrett Communications Pty Ltd also requests that the FCC certify this product for the entire 1.6MHz to 30MHz band to meet the requirements of users authorized to operate between 1.6MHz and 2.0MHz as allowed by Title 47 CFR § 2.106.

This would be done to facilitate the requirements of agencies covered under NTIA spectrum usage. Government agencies complying with the NTIA instead of the FCC must purchase their equipment from private industry manufacturers who are governed under FCC rules. The conflict in spectrum allocation detracts from the options available to the government agencies for commercial off the shelf equipment which meets their required specifications such as the Department of Interiors. Please see frequency lists on next page.

Dated This 5th **Day of** January 2017

By: Phillip A Bradshaw

Signature **Printed**

Title: Chairman

For: Barrett Communications

Telephone: +618 9434 1700

ISO 9001 BUREAU VERITAS Certification

The following table lists the CFR 47 Part 90 frequencies for a MF/HF mobile transceiver:

1.6 – 1.8 MHz	1.9 – 2.0 MHz	2.107 – 2.17 MHz	2.194 – 2.495 MHz
2.505 – 2.85 MHz	3.155 – 3.23 MHz	3.23 – 3.4 MHz	4.438 – 4.65 MHz
4.75 – 4.85 MHz	5.005 – 5.06 MHz	5.06 – 5.45 MHz	6.765 – 7.0 MHz
7.3 – 7.4 MHz	7.4 – 8.1 MHz	9.04 – 9.4 MHz	9.9 – 9.995 MHz
10.15 – 11.175 MHz	11.6 MHz	12.1 – 12.23 MHz	13.41 – 13.57 MHz
13.87 – 14.0 MHz	14.35 – 14.99 MHz	15.8 – 16.36 MHz	17.41 – 17.48 MHz
18.168 – 18.78 MHz	19.02 – 19.68 MHz	19.8 – 19.99 MHz	20.01 – 21.0 MHz
21.85 – 21.924 MHz	22.855 – 23.2 MHz	24.89 MHz	25.01 – 25.07 MHz
25.07 – 25.21 MHz	25.21 – 25.33 MHz	27.23 – 27.41 MHz	27.41 – 27.54 MHz
29.7 – 29.8 MHz			

The CFR 47 Part 90 "extended" frequencies are:

1.8 – 1.9 MHz	Part 97	2.0 – 2.107 MHz	Part 80	2.17 – 2.1735 MHz	Part 80
2.1735 – 2.1905 MHz	Part 80 or 87	2.1905 – 2.194 MHz	Part 80	2.495 – 2.505 MHz	Standard Frequency and Time signal
2.85 – 3.025 MHz	Part 87	3.025 – 3.155 MHz	Aeronautical Mobile	4.995 – 5.005 MHz	Standard Frequency and Time signal
5.45 – 5.68 MHz	Part 87	5.68 – 5.73 MHz	Aeronautical Mobile	5.9 – 6.2 MHz	Part 73
6.2 – 6.525 MHz	Part 80	6.525 – 6.685 MHz	Part 87	6.685 – 6.765 MHz	Aeronautical Mobile
7.1 – 7.1 MHz	Part 97	7.1 – 7.3 MHz	Part 73 or 97	8.1 – 8.195 MHz	Part 80
8.195 – 8.815 MHz	Part 80 or 87	8.815 – 8.965 MHz	Part 87	8.965 – 9.04 MHz	Aeronautical Mobile
9.4 – 9.9 MHz	Part 73	9.995 – 10.005 MHz	Standard Frequency and Time signal	10.005 – 10.1 MHz	Part 87
10.1 – 10.15 MHz	Part 97	11.175 – 11.275 MHz	Aeronautical Mobile	11.275 – 11.4 MHz	Part 87
13.57 – 13.87 MHz	Part 73	14.0 – 14.35 MHz	Part 97	14.99 – 15.01 MHz	Standard Frequency and Time signal
15.01 – 15.1 MHz	Aeronautical Mobile	15.1 – 15.8 MHz	Part 73	16.36 – 17.41 MHz	Part 80
17.48 – 17.9 MHz	Part 73	17.9 – 17.97 MHz	Part 87	17.97 – 18.03 MHz	Aeronautical Mobile
18.068 – 18.168 MHz	Part 97	18.78 – 18.9 MHz	Part 80	18.9 – 19.02 MHz	Part 73
19.68 – 19.8 MHz	Part 80	19.99 – 20.01 MHz	Standard Frequency and Time signal	21.0 – 21.45 MHz	Part 97
21.45 – 21.85 MHz	Part 73	21.924 – 22.0 MHz	Part 87	22.0 – 22.855 MHz	Part 80
23.2 – 23.35 MHz	Aeronautical Mobile	24.89 – 24.99 MHz	Part 97	24.99 – 25.01 MHz	Standard Frequency and Time signal
25.55 – 25.67 MHz	Radio Astronomy	25.67 – 26.1 MHz	Part 73 or 74	26.1 – 26.175 MHz	Part 74 or 80
26.176 – 26.48 MHz	Part 74	26.48 – 26.95 MHz	Fixed Mobile	26.95 – 26.96 MHz	Part 18