BARRETT COMMUNICATIONS

HF & VHF Radio Communications

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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 87 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

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ISO 9001 BUREAU VERITAS Certification

The following table lists the CFR 47 Part 87 frequencies for a MF/HF Fixed station transceiver:

2.182 MHZ	2.648 MHZ	2.850 – 3.025 MHZ	3.281 MHZ
3.400 – 3.500 MHz	3.470 MHz	4.125 MHz	4.550 MHz
4.645 MHz	4.650 – 4.700 MHz	4.9475MHz	5,036 MHZ
5.1225 MHz	5.1675 MHz	5.310 MHz	5.450 – 5.680 MHz
5.8875 MHZ	6.525 – 6.685 MHz	8.015 MHZ	8.364 MHz
8.815 - 8.965 MHz	10.005 – 10.100 MHz	11.275 – 11.400 MHz	13.260 – 13.360 MHz
17.900 – 17.970 MHz	21.924 – 22.000 MHz		

The CFR 47 Part 87 "extended" frequencies are:

1.6 – 1.8 MHZ	Part 90	1.8 – 1.9 MHZ	Part 97	1.9 – 2.0 MHZ	Part 90
2.0 – 2.107 MHZ	Part 80	2.107 – 2.17 MHZ	Part 90	2.17 – 2.1735 MHZ	Part 80
2.1735 - 2.1905 MHZ	Part 80 or 87	2.1905 – 2.194 MHZ	Part 80	2.194 – 2.495 MHZ	Part 90
2.495 – 2.505 MHz	Standard Frequency and Time signal	2.505 – 2.85 MHz	Part 90	3.025 – 3.155 MHz	Aeronautical Mobile
3.155 – 3.4 MHz	Part 90	4.438 – 4.65 MHz	Part 90	4.75 – 4.85 MHz	Part 90
5.005 – 5.45 MHz	Part 90	5.68 – 5.73 MHz	Aeronautical Mobile	5.73 – 5.9 MHz	Part 90
5.9 – 6.2 MHz	Part 73	6.2 – 6.525 MHz	Part 80	6.685 – 6.765 MHz	Aeronautical Mobile
6.765 – 7.0 MHz	Part 90	7.1 – 7.3 MHz	Part 73 or 97	7.3 – 7.4 MHz	Part 90
7.4 – 8.1 MHz	Part 90	8.1 – 8.815 MHz	Part 80 or 87	8.965 – 9.04 MHz	Aeronautical Mobile
9.04 – 9.4 MHz	Part 90	9.4 – 9.9 MHz	Part 73	9.9 – 9.995 MHz	Part 90
9.995 – 10.005 MHz	Standard Frequency and Time signal	10.1 – 10.15 MHz	Part 97	10.15 – 11.175 MHz	Part 90
11.175 – 11.275 MHz	Aeronautical Mobile	11.4 – 11.6 MHz	Part 90	11.6 – 12.1 MHz	Part 73
12.1 – 12.23 MHz	Part 90	12.23 – 13.2 MHz	Part 80	13.2 – 13.26 MHz	Aeronautical Mobile
13.36 – 13.41 MHz	Radio Astronomy	13.41 – 13.57 MHz	Part 90	13.57 – 13.87 MHz	Part 73
13.87 – 14.0 MHz	Part 90	14.0 – 14.35 MHz	Part 97	14.35 – 14.99 MHz	Part 90
14.99 – 15.01 MHz	Standard Frequency and Time signal	15.01 – 15.1 MHz	Aeronautical Mobile	15.1 – 15.8 MHz	Part 73
15.8 – 16.36 MHz	Part 90	16.36 – 17.41 MHz	Part 80	17.41 – 17.48 MHz	Part 90
17.48 – 17.9 MHz	Part 73	17.97 – 18.03 MHz	Aeronautical Mobile	18.03 – 18.068 MHz	Part 90
18.068 – 18.168 MHz	Part 97	18.168 – 18.78 MHz	Part 90	18.78 – 18.9 MHz	Part 80
18.9 – 19.02 MHz	Part 73	19.02 – 19.68 MHz	Part 90	19.68 – 19.8 MHz	Part 80
19.8 – 19.99 MHz	Part 90	19.99 – 20.01 MHz	Standard Frequency and Time signal	20.01 – 21.0 MHz	Part 90
21.0 – 21.45 MHz	Part 97	21.45 – 21.85 MHz	Part 73	21.85 – 21.924 MHz	Part 90
22.0 – 22.855 MHz	Part 80	22.855 – 23.2 MHz	Part 90	23.2 – 23.35 MHz	Aeronautical Mobile
23.35 – 24.89 MHz	Part 90	24.89 – 24.99 MHz	Part 97	24.99 – 25.01 MHz	Standard Frequency and Time signal
25.01 – 25.07 MHz	Part 90	25.07 – 25.33 MHz	Part 90	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 or 80
26.48 – 26.95 MHz	Fixed Mobile	26.95 – 26.96 MHz	Part 18	26.96 – 27.23 MHz	Part 18 or 95
27.23 – 27.54 MHz	Part 90	27.54 – 28.0 MHz	Fixed Mobile	28.0 – 29.7 MHz	Part 97
29.7 – 29.8 MHz	Part 90	29.8 – 30.0 MHz	Fixed Mobile		