

is Group 00 (Transmitter 1), 03 (Transmitter 2), 06 (Transmitter 3) and 09 (Transmitter 4), and Channel 00 for all transmitters. After programming is finished, close the battery compartment door, ensuring that it latches. The BT-1KU is now ready for use.

**Note:** *If you are using multiple transmitters at the same location, set up the first transmitter and leave it ON and keep it 3 ft. away from the receivers. Then start AUTO-SCAN on the second receiver. This avoids duplicate selection of the same channel as already selected for the first receiver.*

*If you are not satisfied with a channel after scanning, repeat again anytime for another free channel.*

## Operating the BT-1KU Bodypack Transmitter

During normal operation with the unit powered on, the transmitter power level can be changed by sliding the **RF Power Switch (44)** to “H” to increase the transmitted RF power (for longer range) or to “L” to decrease the RF power (reduced range). This is a useful feature as the “L” setting increases battery life and also optimizes the number of channels that can be used simultaneously in a given location. Use this setting for normal use not requiring maximum operating range. A range walk test before use will determine which setting is best for your application.

The **Power Off/Mute/On Switch (38)** has three positions and functions both as a power on/off and as an audio mute on/off switch. After the unit is powered on, slide the power switch to the “ON” position to un-mute the audio. With Power Off/Mute/On switch in either in “MUTE” or ON” position the receiver’s **RF Signal Meter (12)** and one **Diversity A or B (3)** indicator should now be on, indicating a received signal from the transmitter. When ready to transmit audio, slide the power switch to “ON” to un-mute.

To mute, slide the power switch to “MUTE” again. Adjust the volume of the receiver per *Connecting Audio Outputs* section above.

**Note:** *Avoid acoustic feedback (howling or screeching) by taking care in selecting PA volume, transmitter location and speaker placement.*

*The RF Signal meter and the Diversity A/B indicator on the receiver’s LCD display should be “On” in normal operation.*

## Instrument Use (BT-1KU/GT only)

Secure the connection of the GT (instrument) cable by lining up the slot of the 3.5mm mini locking **Input Jack (37)** connector and turning the ring to securely lock in. When ready to play, slide the **Power Off/Mute/On Switch (38)** to “ON” position to un-mute the audio. Adjust the volume lower on the receiver’s **Unbalanced Audio Output (17)** for one-to-one unity gain with a hardwired cord or select up to an added 4-5dB boost by leaving the receiver volume to maximum for normal use with guitars and bass guitars. Note this function is best when using two transmitters for switching during performance as these is only a single mixed output from the two receivers. If an individual output per receiver is desired, use the **XLR Mic Outputs (15)**, noting that those are only fixed Mic level outputs.

**Note:** *The audio level should be adjusted on the instrument as when using a hard-wired cord. For most applications the transmitter’s **Input Volume Level (32)** should be set at 0dB for optimal performance. Use attenuation levels (-10dB, -20dB, -30dB) only for higher output instruments, such as bass guitars with active pickups, and then only if needed for cleaner sound.*

# Specifications

## SYSTEM OVERALL SPECIFICATIONS

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| <b>Operating Frequency Range</b>      | (U.S.) Band 3: 520.000-544.975MHz,               |
| <b>Freq. Synthesized</b>              | (1000 channels switchable) 25kHz/step            |
| <b>PLL System Frequency Stability</b> | <0.005%                                          |
| <b>Frequency Response</b>             | 30Hz-18kHz +/-3dB                                |
| <b>Dynamic Range</b>                  | 120dB                                            |
| <b>Harmonic Distortion</b>            | <0.5%                                            |
| <b>Modulation</b>                     | FM (F3E) +/-25kHz normal, +/-75kHz max           |
| <b>Operating Range</b>                | 150-250 feet typical, 500+feet max line-of-sight |

## 4W-1KU QUAD RECEIVER SPECIFICATIONS

|                             |                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Receiver System</b>      | Dual conversion Super Heterodyne with True Diversity<br>(two complete receiver sections with optimum audio selected)                         |
| <b>Selectivity</b>          | 60dB, normal +/-75kHz offset                                                                                                                 |
| <b>Image Rejection</b>      | -70dB, minimum                                                                                                                               |
| <b>Sensitivity</b>          | -107dBm, normal                                                                                                                              |
| <b>Spurious Rejection</b>   | 65dB, normal                                                                                                                                 |
| <b>Mute Threshold</b>       | -65dBm to -95dBm (adjustable)                                                                                                                |
| <b>Controls</b>             | UP/DOWN selects, SET, IR Sync, Power ON/OFF buttons,<br>MUTE Level control                                                                   |
| <b>LCD Display</b>          | Four backlight LCD panels indicating selected Group/Channel, Received<br>RF levels, A/B diversity, and unbalanced receiver Out Volume levels |
| <b>AF/Peak LED Display</b>  | 5-segment LED tree indicating received audio levels from transmitter                                                                         |
| <b>Audio Output Level</b>   | Unbalanced output: LINE Level output adjustable<br>Balanced output: MIC level output fixed                                                   |
| <b>Output Impedance</b>     | Balanced and unbalanced: 600 $\Omega$                                                                                                        |
| <b>Power Requirement</b>    | 16VDC/2.5A                                                                                                                                   |
| <b>Antennas</b>             | Dual BNC right angle                                                                                                                         |
| <b>Dimensions</b>           | 17"W x 7.5"D x 2"H (43.2cm x 19.1cm x 5.1cm)                                                                                                 |
| <b>Weight</b>               | 6.3 lbs (2.86 Kg)                                                                                                                            |
| <b>Housing Construction</b> | Metal                                                                                                                                        |

## HT-1KU HANDHELD TRANSMITTER SPECIFICATIONS

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| <b>RF Output Power</b>                | HI/LOW selectable<br>HI: +14dBm (25mW typical), LOW: +4dBm (2.5mW typical) |
| <b>Harmonic and Spurious Emission</b> | -50dBc normal                                                              |
| <b>Audio Input Levels</b>             | 24mV for +/- 25 KHz deviation                                              |
| <b>Impedance</b>                      | 6.0 k $\Omega$                                                             |
| <b>Controls</b>                       | Power ON/OFF, RF Power HI/LOW switches, Set/Up/Down                        |
| <b>LCD Display</b>                    | Group/Channels/ Input Volume/ Battery Levels                               |
| <b>Antenna Type</b>                   | Integral                                                                   |
| <b>Battery Type</b>                   | 2 x AA alkaline batteries operation                                        |
| <b>Battery Life</b>                   | 8-10 hours typical                                                         |
| <b>Dimensions</b>                     | 10"L x 2"D (25.4 cm x 5.1 cm)                                              |
| <b>Weight (w/o batteries)</b>         | 11 oz (0.312 kg)                                                           |
| <b>Housing Construction</b>           | Metal                                                                      |

## BT-1KU BODYPACK TRANSMITTER SPECIFICATIONS

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
| <b>RF Output Power</b>                | Hi/Lo selectable<br>HI: +14dBm (25mW typical), LOW: +4dBm (2.5mW typical) |
| <b>Harmonic and Spurious Emission</b> | -50dBc normal                                                             |
| <b>Audio Input Levels</b>             | (Lapel/Lavalier—LT)/ (Headmic™ LT/HM)/ (Instrument—GT)                    |
| <b>Input Impedance</b>                | 5k $\Omega$ (Lav Mic), 500 k $\Omega$ (Instr.)                            |
| <b>Controls</b>                       | Power OFF/MUTE/ON, RF Power HI/LOW switches, Set/Up/Down                  |
| <b>Input Connector</b>                | Mini 3.5mm with locking nut                                               |
| <b>LCD Display</b>                    | Group/ Channels/ Input Volume/ Battery Levels                             |
| <b>Antenna Type</b>                   | External fixed                                                            |
| <b>Battery Type</b>                   | 2 x AA alkaline batteries operation                                       |
| <b>Battery Life</b>                   | 8-10 Hours typical                                                        |
| <b>Dimensions</b>                     | 2.5"W x 3.25"H x 1-13/16"D (6.35cm x 8.3cm x 1.82cm)                      |
| <b>Weight (w/o batteries)</b>         | 3.8 oz (0.108 kg)                                                         |
| <b>Housing Construction</b>           | Metal                                                                     |

*Specifications subject to change at any time without prior notice for purposes of product improvement*

# Cautions and Troubleshooting

## Feedback

Avoid acoustic feedback (howling or screeching) by taking care in selecting PA volume, transmitter location and speaker placement.

Please also note the pickup pattern characteristics of the microphone selected. Unidirectional mics are more resistant to feedback. However, they pick up sound sources best that are directly in front of the mic. Also mics that are farther from the sound source require more acoustic gain and thus are also more prone to feed back than close-source mics such as handheld.

## No or Low Audio

If you are not getting audio through the system, carefully re-check all setups. Especially note that the receiver and transmitter must be set to operate on the same RF channel. For BT-1KU bodypack transmitter, also confirm that the **Power Off/Mute/On Switch (38)** is not in the Mute position. The receiver's **Unbalanced Line Level Out (17)** is adjustable so make sure the **Volume (11)** is set properly.

## RF Interference and Finding Open Channels

If you encounter slight receiving interference when the transmitter is far from the receiver (from other than an operating TV station on the same frequency), often it can be overcome by adjusting the receiver's **Squelch Control (16)** (see *Adjusting the Squelch*). If receiving interference on a selected channel with the transmitter off, you must reprogram the receiver and transmitter to a different channel.

**See:** *Selecting the 4W-1KU QUAD Receiver Volume Level / Group / Channel*

*Programming the HT-1KU/BT-1KU to the Selected Channel*

To reprogram, you must first find an open channel. To do this, follow the operating procedure outlined in *Selecting the 4W-1KU Receiver Volume Level / Group / Channel*. With the associated transmitter off, scroll through the groups/channels to find one that shows no received signal on the receiver's **RF Signal Meter (12)** (no bars). Also, there must be no bars either on each of the three immediately adjacent channels both above and below the selected channel for optimum interference-free operation (i.e. in a field of seven adjacent channel total—with the channel used in the middle). If operating multiple 4W-1KU Series systems simultaneously, repeat this procedure with every new channel being selected, with previously tuned systems all on, both transmitters and receivers.

Please note that wireless frequencies are shared with other radio services. According to FCC regulations, wireless microphone operations are unprotected from interference from other licensed operations in the band. If any interference is received by any Government or non-government operation, the wireless microphone must cease operation or change frequencies. The above statement is valid only for use in the U.S.A.

**Note:** *More bars in the Received Signal (12) icon indicate good signal strength in operation with the transmitter on, but more than 1 bar showing with the transmitter off also indicates the presence of likely RF interfering signals at that location. If this happens, select a different GRP/CH. One bar or less is ideal for interference-free operation.*

# Miscellaneous Tips

- For optimal operation with external antennas, low loss RF shielded cable should be used and the length of the cable should not exceed 10 ft. (3 m).
- The receiver antennas should be kept away from any metal surfaces whenever possible as they can reflect away or shield the incoming RF signal.
- If the receiver's volume control is set too high, it may overdrive the input of the attached audio mixer, causing distortion. Conversely, if the output is set too low, the overall signal-to-noise ratio of the system may be reduced, causing noticeable hiss. If such noise occurs, adjust the output level of the receiver so that highest sound pressure level going into the microphone transmitter causes no input overload in the mixer, but permits the mixer level control to operate in the normal range (not too high and not too low). This provides the optimum signal-to-noise for the entire system.
- Before inserting the batteries, ensure that they are inserted with the correct polarity.
- Before operation, confirm that the receiver and associated transmitter are tuned to the same frequency group and channel number.
- After making a receiver channel change, ensure that the corresponding change is also made on the matching transmitter.
- Use only brand new alkaline batteries. Do not use "general purpose" carbon batteries. When batteries are weak, replace all the batteries at the same time. Do not mix new and old batteries.
- Position the receiver so that it has the least possible obstructions between it and the transmitter. Line-of-sight is best!
- During operation, the transmitter and the receiver should be as close as possible for optimum results but never closer than 3 ft. (1 m) as that may overload the receiver's input circuitry and cause noises.
- For the best operation, the receiver should be placed at least 3 ft. (1 m) above the ground and 3 ft. (1 m) away from a wall or metal surface. The transmitter should also be at least 3 ft. (1 m) from the receiver. Keep antennas away from noise sources such as motors, automobiles, neon lights, signal processors, computers, as well as large metal objects.
- A receiver cannot receive signals from two or more transmitters simultaneously.
- Turn the transmitter off when it is not in use. For longest life, remove the batteries if the unit is not to be used for a long period as the transmitters draw a tiny residual current to maintain the programmed settings, even when turned off. Also, since batteries installed for a long time can sometimes corrode and/or leak, causing damage, it is generally recommended that batteries be removed whenever the transmitters are not being used.
- When using the BT-1KU bodypack for instrument use: Scratchy noises can sometimes occur when an electric guitar with dirty pots or connections is used with a wireless system. Therefore, the supplied capacitor provides first-order filtering of the RF signal from the cord into the guitar and eliminates virtually all scratchy noises. Should your equipment still produce scratchy noise, we suggest these steps to eliminate problems:
  - 1) Make sure all guitar volume and tone pots are clean and all contacts are solid. **This is very important.**
  - 2) Solder a 47pF capacitor across the pot to ground terminal of the guitar's volume and tone pots to provide extra filtering.

# Frequency

## Frequency Plan

Band 3: (U.S.): 520.000-544.975MHz,  
25KHz per step (1000 Channels) U.S.

# Accessories

| Part Number | Description                                                                           |
|-------------|---------------------------------------------------------------------------------------|
| IC-U1K      | Instrument cable included for BT-1KU/GT transmitter,<br>3.5mm locking mini plug to ¼" |

# Service Information

**In the U.S.** If you are experiencing operational problems with your system, please refer to the Support page at [www.nady.com](http://www.nady.com) for assistance. Should your wireless system require service, please contact the Nady Service Department at (510) 652-2411 for a Return Authorization (R/A) Number and service quote (if out of warranty). Make sure the R/A Number is clearly marked on the outside of the package that you are returning.

If your unit is out of warranty, please enclose a cashier's check or money order (or pay by credit card) per instructions by the Nady Service Department. Ship your unit prepaid to: Nady Systems, Service Department, 6701 Shellmound Street, Emeryville, CA 94608. Include a brief description of the problem you are experiencing. For service of a unit under warranty, please follow the instructions in the following section.

**Outside the U.S** For service or warranty matters please contact the Nady distributor in your country through the dealer/store from which you purchased this product.

**Do not attempt to service this unit yourself as it can be dangerous and will also void the warranty.**

# One Year Limited Warranty

Nady Systems, Inc. warrants to the original consumer purchaser that the unit is free from any defects in material or workmanship for a period of one year from the date of original retail purchase. If any such defect is discovered within the warranty period, Nady Systems, Inc. will repair or replace the unit free of charge, subject to verification of the defect or malfunction upon return to Nady Systems. Please do not return your Nady product to the store where it was purchased as Nady Systems handles your warranty service directly. Communication with our Service Department is the most efficient means of servicing your unit and we are dedicated to keeping you a satisfied customer.

To the extent permitted by law, any applicable implied warranties, including warranties of merchantability and fitness are hereby limited to one year from the date of purchase. Consequential or incidental damages resulting from a breach of any applicable express or implied warranties are hereby excluded. This warranty is in lieu of all other agreements and warranties, general or special, express or implied and no representative or person including a Nady dealer, agent, or employee is authorized to assume for us any other liability in connection with the sale or use of this Nady Systems' product.

Whereas some states do not allow limitations on how long implied warranties last, and do not allow exclusion of incidental or consequential damages, the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

## **This warranty is subject to the following conditions:**

- 1) This system must have been purchased from an authorized Nady dealer and all warranty service must be performed by Nady's service department. Any service not performed by Nady will automatically void this warranty.
- 2) Items not covered: physical damage resulting from improper handling of the unit in transit from the factory by the shipper (Nady Systems is not responsible for such damage and all such claims must be made against the shipping company by the consignee); defects caused by normal wear of the product (expendable parts are typically connectors, cables, potentiometers, switches and similar components); damage or defects caused by abuse, neglect, accident, failure to connect or operate the unit in any way that does not comply with applicable technical or safety regulations, or improper repair, excessive heat or humidity, alteration or unreasonable use of the unit, causing cracks, broken cases/housings or parts; damage caused by leaking batteries; finish or appearance items; items damaged in shipment en route to Nady Systems, Inc. for repair. The warranty is null and void if any Nady serial number has been removed or defaced.

## **How To Obtain Service:**

- 1) If factory service is required, you must contact our Service Department at (510) 652-2411 for a return authorization (RA) number. Make sure the RA number is clearly marked on the outside of your package. (Please note: if an RA number is not included, our shipping department cannot accept your package.)
- 2) Send the unit back to Nady Systems, 6701 Shellmound Street, Emeryville, CA, 94608 freight pre-paid. You must include proof of date and place of purchase (i.e., photocopy of your bill of sale) and a brief description of the unit's problem(s) or Nady cannot be responsible for repair or replacement. Nady Systems, Inc. will not repair, nor be held responsible, for any units returned without proper identification, return address, and RA number clearly marked on the package.
- 3) Per the above, Nady will perform all warranty service and return the unit to you at no charge. Nady Systems will inform the buyer if product sent in does not meet the terms of this warranty and will provide a quote for fixing the unit and/or shipping it back exclusively at the buyer's expense.

## Band 3 (U.S.) Group/Channel Frequencies

| (MHz)    | Groups → |         |         |         |         |         |         |         |         |         |
|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Channels | 00       | 01      | 02      | 03      | 04      | 05      | 06      | 07      | 08      | 09      |
| 00       | 520.000  | 522.500 | 525.000 | 527.500 | 530.000 | 532.500 | 535.000 | 537.500 | 540.000 | 542.500 |
| 01       | 520.025  | 522.525 | 525.025 | 527.525 | 530.025 | 532.525 | 535.025 | 537.525 | 540.025 | 542.525 |
| 02       | 520.050  | 522.550 | 525.050 | 527.550 | 530.050 | 532.550 | 535.050 | 537.550 | 540.050 | 542.550 |
| 03       | 520.075  | 522.575 | 525.075 | 527.575 | 530.075 | 532.575 | 535.075 | 537.575 | 540.075 | 542.575 |
| 04       | 520.100  | 522.600 | 525.100 | 527.600 | 530.100 | 532.600 | 535.100 | 537.600 | 540.100 | 542.600 |
| 05       | 520.125  | 522.625 | 525.125 | 527.625 | 530.125 | 532.625 | 535.125 | 537.625 | 540.125 | 542.625 |
| 06       | 520.150  | 522.650 | 525.150 | 527.650 | 530.150 | 532.650 | 535.150 | 537.650 | 540.150 | 542.650 |
| 07       | 520.175  | 522.675 | 525.175 | 527.675 | 530.175 | 532.675 | 535.175 | 537.675 | 540.175 | 542.675 |
| 08       | 520.200  | 522.700 | 525.200 | 527.700 | 530.200 | 532.700 | 535.200 | 537.700 | 540.200 | 542.700 |
| 09       | 520.225  | 522.725 | 525.225 | 527.725 | 530.225 | 532.725 | 535.225 | 537.725 | 540.225 | 542.725 |
| 10       | 520.250  | 522.750 | 525.250 | 527.750 | 530.250 | 532.750 | 535.250 | 537.750 | 540.250 | 542.750 |
| 11       | 520.275  | 522.775 | 525.275 | 527.775 | 530.275 | 532.775 | 535.275 | 537.775 | 540.275 | 542.775 |
| 12       | 520.300  | 522.800 | 525.300 | 527.800 | 530.300 | 532.800 | 535.300 | 537.800 | 540.300 | 542.800 |
| 13       | 520.325  | 522.825 | 525.325 | 527.825 | 530.325 | 532.825 | 535.325 | 537.825 | 540.325 | 542.825 |
| 14       | 520.350  | 522.850 | 525.350 | 527.850 | 530.350 | 532.850 | 535.350 | 537.850 | 540.350 | 542.850 |
| 15       | 520.375  | 522.875 | 525.375 | 527.875 | 530.375 | 532.875 | 535.375 | 537.875 | 540.375 | 542.875 |
| 16       | 520.400  | 522.900 | 525.400 | 527.900 | 530.400 | 532.900 | 535.400 | 537.900 | 540.400 | 542.900 |
| 17       | 520.425  | 522.925 | 525.425 | 527.925 | 530.425 | 532.925 | 535.425 | 537.925 | 540.425 | 542.925 |
| 18       | 520.450  | 522.950 | 525.450 | 527.950 | 530.450 | 532.950 | 535.450 | 537.950 | 540.450 | 542.950 |
| 19       | 520.475  | 522.975 | 525.475 | 527.975 | 530.475 | 532.975 | 535.475 | 537.975 | 540.475 | 542.975 |
| 20       | 520.500  | 523.000 | 525.500 | 528.000 | 530.500 | 533.000 | 535.500 | 538.000 | 540.500 | 543.000 |
| 21       | 520.525  | 523.025 | 525.525 | 528.025 | 530.525 | 533.025 | 535.525 | 538.025 | 540.525 | 543.025 |
| 22       | 520.550  | 523.050 | 525.550 | 528.050 | 530.550 | 533.050 | 535.550 | 538.050 | 540.550 | 543.050 |
| 23       | 520.575  | 523.075 | 525.575 | 528.075 | 530.575 | 533.075 | 535.575 | 538.075 | 540.575 | 543.075 |
| 24       | 520.600  | 523.100 | 525.600 | 528.100 | 530.600 | 533.100 | 535.600 | 538.100 | 540.600 | 543.100 |
| 25       | 520.625  | 523.125 | 525.625 | 528.125 | 530.625 | 533.125 | 535.625 | 538.125 | 540.625 | 543.125 |
| 26       | 520.650  | 523.150 | 525.650 | 528.150 | 530.650 | 533.150 | 535.650 | 538.150 | 540.650 | 543.150 |
| 27       | 520.675  | 523.175 | 525.675 | 528.175 | 530.675 | 533.175 | 535.675 | 538.175 | 540.675 | 543.175 |
| 28       | 520.700  | 523.200 | 525.700 | 528.200 | 530.700 | 533.200 | 535.700 | 538.200 | 540.700 | 543.200 |
| 29       | 520.725  | 523.225 | 525.725 | 528.225 | 530.725 | 533.225 | 535.725 | 538.225 | 540.725 | 543.225 |
| 30       | 520.750  | 523.250 | 525.750 | 528.250 | 530.750 | 533.250 | 535.750 | 538.250 | 540.750 | 543.250 |
| 31       | 520.775  | 523.275 | 525.775 | 528.275 | 530.775 | 533.275 | 535.775 | 538.275 | 540.775 | 543.275 |
| 32       | 520.800  | 523.300 | 525.800 | 528.300 | 530.800 | 533.300 | 535.800 | 538.300 | 540.800 | 543.300 |
| 33       | 520.825  | 523.325 | 525.825 | 528.325 | 530.825 | 533.325 | 535.825 | 538.325 | 540.825 | 543.325 |
| 34       | 520.850  | 523.350 | 525.850 | 528.350 | 530.850 | 533.350 | 535.850 | 538.350 | 540.850 | 543.350 |
| 35       | 520.875  | 523.375 | 525.875 | 528.375 | 530.875 | 533.375 | 535.875 | 538.375 | 540.875 | 543.375 |
| 36       | 520.900  | 523.400 | 525.900 | 528.400 | 530.900 | 533.400 | 535.900 | 538.400 | 540.900 | 543.400 |
| 37       | 520.925  | 523.425 | 525.925 | 528.425 | 530.925 | 533.425 | 535.925 | 538.425 | 540.925 | 543.425 |
| 38       | 520.950  | 523.450 | 525.950 | 528.450 | 530.950 | 533.450 | 535.950 | 538.450 | 540.950 | 543.450 |
| 39       | 520.975  | 523.475 | 525.975 | 528.475 | 530.975 | 533.475 | 535.975 | 538.475 | 540.975 | 543.475 |
| 40       | 521.000  | 523.500 | 526.000 | 528.500 | 531.000 | 533.500 | 536.000 | 538.500 | 541.000 | 543.500 |
| 41       | 521.025  | 523.525 | 526.025 | 528.525 | 531.025 | 533.525 | 536.025 | 538.525 | 541.025 | 543.525 |
| 42       | 521.050  | 523.550 | 526.050 | 528.550 | 531.050 | 533.550 | 536.050 | 538.550 | 541.050 | 543.550 |
| 43       | 521.075  | 523.575 | 526.075 | 528.575 | 531.075 | 533.575 | 536.075 | 538.575 | 541.075 | 543.575 |
| 44       | 521.100  | 523.600 | 526.100 | 528.600 | 531.100 | 533.600 | 536.100 | 538.600 | 541.100 | 543.600 |
| 45       | 521.125  | 523.625 | 526.125 | 528.625 | 531.125 | 533.625 | 536.125 | 538.625 | 541.125 | 543.625 |
| 46       | 521.150  | 523.650 | 526.150 | 528.650 | 531.150 | 533.650 | 536.150 | 538.650 | 541.150 | 543.650 |
| 47       | 521.175  | 523.675 | 526.175 | 528.675 | 531.175 | 533.675 | 536.175 | 538.675 | 541.175 | 543.675 |

| (MHz)    | Groups → |         |         |         |         |         |         |         |         |         |
|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Channels | 00       | 01      | 02      | 03      | 04      | 05      | 06      | 07      | 08      | 09      |
| 48       | 521.200  | 523.700 | 526.200 | 528.700 | 531.200 | 533.700 | 536.200 | 538.700 | 541.200 | 543.700 |
| 49       | 521.225  | 523.725 | 526.225 | 528.725 | 531.225 | 533.725 | 536.225 | 538.725 | 541.225 | 543.725 |
| 50       | 521.250  | 523.750 | 526.250 | 528.750 | 531.250 | 533.750 | 536.250 | 538.750 | 541.250 | 543.750 |
| 51       | 521.275  | 523.775 | 526.275 | 528.775 | 531.275 | 533.775 | 536.275 | 538.775 | 541.275 | 543.775 |
| 52       | 521.300  | 523.800 | 526.300 | 528.800 | 531.300 | 533.800 | 536.300 | 538.800 | 541.300 | 543.800 |
| 53       | 521.325  | 523.825 | 526.325 | 528.825 | 531.325 | 533.825 | 536.325 | 538.825 | 541.325 | 543.825 |
| 54       | 521.350  | 523.850 | 526.350 | 528.850 | 531.350 | 533.850 | 536.350 | 538.850 | 541.350 | 543.850 |
| 55       | 521.375  | 523.875 | 526.375 | 528.875 | 531.375 | 533.875 | 536.375 | 538.875 | 541.375 | 543.875 |
| 56       | 521.400  | 523.900 | 526.400 | 528.900 | 531.400 | 533.900 | 536.400 | 538.900 | 541.400 | 543.900 |
| 57       | 521.425  | 523.925 | 526.425 | 528.925 | 531.425 | 533.925 | 536.425 | 538.925 | 541.425 | 543.925 |
| 58       | 521.450  | 523.950 | 526.450 | 528.950 | 531.450 | 533.950 | 536.450 | 538.950 | 541.450 | 543.950 |
| 59       | 521.475  | 523.975 | 526.475 | 528.975 | 531.475 | 533.975 | 536.475 | 538.975 | 541.475 | 543.975 |
| 60       | 521.500  | 524.000 | 526.500 | 529.000 | 531.500 | 534.000 | 536.500 | 539.000 | 541.500 | 544.000 |
| 61       | 521.525  | 524.025 | 526.525 | 529.025 | 531.525 | 534.025 | 536.525 | 539.025 | 541.525 | 544.025 |
| 62       | 521.550  | 524.050 | 526.550 | 529.050 | 531.550 | 534.050 | 536.550 | 539.050 | 541.550 | 544.050 |
| 63       | 521.575  | 524.075 | 526.575 | 529.075 | 531.575 | 534.075 | 536.575 | 539.075 | 541.575 | 544.075 |
| 64       | 521.600  | 524.100 | 526.600 | 529.100 | 531.600 | 534.100 | 536.600 | 539.100 | 541.600 | 544.100 |
| 65       | 521.625  | 524.125 | 526.625 | 529.125 | 531.625 | 534.125 | 536.625 | 539.125 | 541.625 | 544.125 |
| 66       | 521.650  | 524.150 | 526.650 | 529.150 | 531.650 | 534.150 | 536.650 | 539.150 | 541.650 | 544.150 |
| 67       | 521.675  | 524.175 | 526.675 | 529.175 | 531.675 | 534.175 | 536.675 | 539.175 | 541.675 | 544.175 |
| 68       | 521.700  | 524.200 | 526.700 | 529.200 | 531.700 | 534.200 | 536.700 | 539.200 | 541.700 | 544.200 |
| 69       | 521.725  | 524.225 | 526.725 | 529.225 | 531.725 | 534.225 | 536.725 | 539.225 | 541.725 | 544.225 |
| 70       | 521.750  | 524.250 | 526.750 | 529.250 | 531.750 | 534.250 | 536.750 | 539.250 | 541.750 | 544.250 |
| 71       | 521.775  | 524.275 | 526.775 | 529.275 | 531.775 | 534.275 | 536.775 | 539.275 | 541.775 | 544.275 |
| 72       | 521.800  | 524.300 | 526.800 | 529.300 | 531.800 | 534.300 | 536.800 | 539.300 | 541.800 | 544.300 |
| 73       | 521.825  | 524.325 | 526.825 | 529.325 | 531.825 | 534.325 | 536.825 | 539.325 | 541.825 | 544.325 |
| 74       | 521.850  | 524.350 | 526.850 | 529.350 | 531.850 | 534.350 | 536.850 | 539.350 | 541.850 | 544.350 |
| 75       | 521.875  | 524.375 | 526.875 | 529.375 | 531.875 | 534.375 | 536.875 | 539.375 | 541.875 | 544.375 |
| 76       | 521.900  | 524.400 | 526.900 | 529.400 | 531.900 | 534.400 | 536.900 | 539.400 | 541.900 | 544.400 |
| 77       | 521.925  | 524.425 | 526.925 | 529.425 | 531.925 | 534.425 | 536.925 | 539.425 | 541.925 | 544.425 |
| 78       | 521.950  | 524.450 | 526.950 | 529.450 | 531.950 | 534.450 | 536.950 | 539.450 | 541.950 | 544.450 |
| 79       | 521.975  | 524.475 | 526.975 | 529.475 | 531.975 | 534.475 | 536.975 | 539.475 | 541.975 | 544.475 |
| 80       | 522.000  | 524.500 | 527.000 | 529.500 | 532.000 | 534.500 | 537.000 | 539.500 | 542.000 | 544.500 |
| 81       | 522.025  | 524.525 | 527.025 | 529.525 | 532.025 | 534.525 | 537.025 | 539.525 | 542.025 | 544.525 |
| 82       | 522.050  | 524.550 | 527.050 | 529.550 | 532.050 | 534.550 | 537.050 | 539.550 | 542.050 | 544.550 |
| 83       | 522.075  | 524.575 | 527.075 | 529.575 | 532.075 | 534.575 | 537.075 | 539.575 | 542.075 | 544.575 |
| 84       | 522.100  | 524.600 | 527.100 | 529.600 | 532.100 | 534.600 | 537.100 | 539.600 | 542.100 | 544.600 |
| 85       | 522.125  | 524.625 | 527.125 | 529.625 | 532.125 | 534.625 | 537.125 | 539.625 | 542.125 | 544.625 |
| 86       | 522.150  | 524.650 | 527.150 | 529.650 | 532.150 | 534.650 | 537.150 | 539.650 | 542.150 | 544.650 |
| 87       | 522.175  | 524.675 | 527.175 | 529.675 | 532.175 | 534.675 | 537.175 | 539.675 | 542.175 | 544.675 |
| 88       | 522.200  | 524.700 | 527.200 | 529.700 | 532.200 | 534.700 | 537.200 | 539.700 | 542.200 | 544.700 |
| 89       | 522.225  | 524.725 | 527.225 | 529.725 | 532.225 | 534.725 | 537.225 | 539.725 | 542.225 | 544.725 |
| 90       | 522.250  | 524.750 | 527.250 | 529.750 | 532.250 | 534.750 | 537.250 | 539.750 | 542.250 | 544.750 |
| 91       | 522.275  | 524.775 | 527.275 | 529.775 | 532.275 | 534.775 | 537.275 | 539.775 | 542.275 | 544.775 |
| 92       | 522.300  | 524.800 | 527.300 | 529.800 | 532.300 | 534.800 | 537.300 | 539.800 | 542.300 | 544.800 |
| 93       | 522.325  | 524.825 | 527.325 | 529.825 | 532.325 | 534.825 | 537.325 | 539.825 | 542.325 | 544.825 |
| 94       | 522.350  | 524.850 | 527.350 | 529.850 | 532.350 | 534.850 | 537.350 | 539.850 | 542.350 | 544.850 |
| 95       | 522.375  | 524.875 | 527.375 | 529.875 | 532.375 | 534.875 | 537.375 | 539.875 | 542.375 | 544.875 |
| 96       | 522.400  | 524.900 | 527.400 | 529.900 | 532.400 | 534.900 | 537.400 | 539.900 | 542.400 | 544.900 |
| 97       | 522.425  | 524.925 | 527.425 | 529.925 | 532.425 | 534.925 | 537.425 | 539.925 | 542.425 | 544.925 |
| 98       | 522.450  | 524.950 | 527.450 | 529.950 | 532.450 | 534.950 | 537.450 | 539.950 | 542.450 | 544.950 |
| 99       | 522.475  | 524.975 | 527.475 | 529.975 | 532.475 | 534.975 | 537.475 | 539.975 | 542.475 | 544.975 |

# FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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12/21/10