AIRWAVE
TECHNOLOGIES

AT-5200

Wireless Microphone System
User Guide

AIRWAVE TECHNOLOGIES

Thank you for purchasing the Airwave Technologies AT-5200 wireless systems. The AT-5200 Series can be used in a variety of ways including live performances, public speaking, entertainment venues, and the recording arts requiring systems of 16 channels or less.

Warranty Information & Technical Support

At Airwave Technologies, we believe in and stand behind all of our quality products. Any reasonable warranty claim will be honored within a one year period. If anything is defective, simply call 305-891-7399 for an RA#, write it on the out side of a shipping box, and send us the defective piece or system, and we will gladly repair or replace it for you. Please contact an Airwave Technologies dealer near you for parts and accessories for your wireless system.

Service Phone Number - 305-891-7399
Service email - Service@AirwaveTechnologies.com

Airwave Technologies, Inc.
ATTN: Service Department / RA#___
2901 Simms Street, Suite F
Hollywood, FL 33020

System Components

AT-5200 UHF PLL Diversity Wireless Receiver
Transmitters (Depending on Configuration)
2 Antennas
Combo Rack Mount / Antenna Front Mount Kit
   with Mounting Screws, Cables, BNC Connectors
1/4" Audio Cable
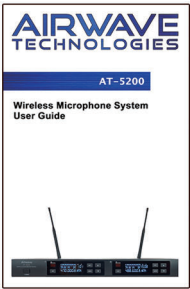Power Adapter
Four 1.5V "AA Batteries
User Guide

AT-U51
Handheld Transmitter

AT-U52
Bodypack Transmitter

AT-LAV2
Lavalier Transmitter

AT-5200 Receiver Front Panel Features

❶ Power Button - Press for 2 seconds to turn on, hold longer to turn off.

❷ "ASC" Infrared Frequency Button - Press this button to establish infrared connection between the receiver and the transmitter.

❸ Infrared Frequency "IR" Window

❹ LED Display

❺ Auto Button for Fast Frequency Sweep

❻ Set Button - To set all functions showing on the screen.

❼ ❽ Quick Up and Down Channel Setting Buttons

AT-5200 Receiver Rear Panel Features

❶ Antenna Jack B 50 ohm

❷ Antenna Jack A 50 OHM

❸ 1/4" Mix Output Socket

❹ XLR Mix Output Socket

❺ XLR Output Socket Channel 2

❻ XLR Output Socket Channel 1

❼ DC Power Adapter Socket

U-51 Handheld Transmitter Features

Function:

① Microphone Head

② LED Liquid Crystal Display

③ Power & Mute Switch

④ Infrared Frequency (IR) Port

⑤ Battery Cover

Changing Batteries

Two Alkaline batteries should provide power for approximately 10 hours. When the power indicator on the display is flashing, batteries should be replaced immediately as shown below.

Icon	Function
RF	Transmitter Intensity Indicator
🔋	Battery Power Indicator
470.000 MHz	Frequency Setting
🔇	Mute Icon
GAIN 0dB	Microphone Gain Value

Mute: Tap the power button to mute handheld transmitter, the 🔇 icon will be displayed. Tap the power button again to clear mute.
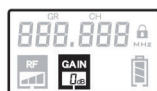
（1）Microphone Gain Adjustment Display GAIN 0dB
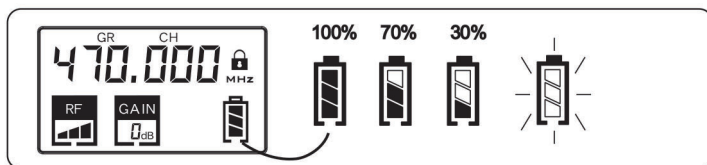
（2）Transmitting Power Level Display RF
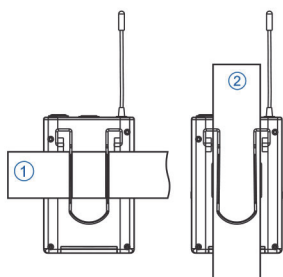
（3）Frequency Setting DIsplay 470.000

（4）Low Power Tip: If the battery icon shows less than 30%, replace batteries immediately. Battery icon will Flash prior to shutting off.

U-52 Bodypack Transmitter Features

1. Antenna
2. Power Indicator Light
3. LED Screen
4. Infrared Frequency (IR) Window
5. SET Button
6. UP Button
7. Power / Mute Button
8. 3-Pin Microphone Input

Wearing the Bodypack Transmitter

1 - Transmitter Clamped to a Belt
2 - Transmitter Clamped to Guitar Strap

Changing Batteries

Two Alkaline batteries should provide power for approximately 10 hours. When the power indicator on the display is flashing, batteries should be replaced immediately as shown below.

Frequency Selection Guide

Radio frequencies used for wireless communication in most countries including the United States are under strict control and regulations. These regulations specify which devices can be used at what frequency and tend to limit interference within the frequency bands.

To ensure consistant reliable frequency availability and to minimize the intereference that might occur the user can choose frequency bands between 470 and 489 MHZ or 514 and 542 MHZ.

For the user's convenience, preset frequency groups have been created to minimize intermodulation distortion. When using multiple receivers and transmitters each system must use a seperate and different channel. Grouping the receivers and then using seperate channels on the transmitters will provide the best frequency use and distribution.

When using up to 3 units (max of 6 channels) in the same frequency range, the wireless microphone system does not require an antenna combiner under normal conditions. If using 4 to 7 units (8 to 14 channels) the use of an approved antenna combiner is highly recommended.

For assistance in selecting the best operating frequency range in your zipcode, you may call Airwave Support at 305-891-7399

Navigating The Menu On The Receiver (AT-4200)

1. Hold **SET** button for 3 seconds to unlock display.

2. Press **SET** button again and you will scroll through the different settings on the display. Volume (default), **GR** Group, **CH** Channel,

   SQL Squelch, **RF** (Radio Frequency) Range, & **Gain**.

3. Selected setting will flash.

4. Press up and down buttons to change selection values.

5. System saves settings and auto locks when idle for 10 seconds.

Syncing Transmitters (U-41 Handheld or U-42 Body Pack)

1. Turn **ON** transmitter and lower or remove its battery cover. Locate its IR transmission window.

2. Press the **ASC** button on receiver to sync its setting to the transmitter. Receiver will transmit selected group, channel, and gain adjustments for approximately 25 seconds.

3. Hold up the IR window of the transmitter to the IR window of the receiver about 3-6" apart during the 25 second IR transmission cycle. NOTE*** On units manufactured after 2021, the ASC button acts as an ON / OFF toggle. Long pressing the button will not activate the syncing sequence. Lightly press the ASC button and the IR Window Icon will flash during IR transmission.

4. Verify matching channels and settings between the transmitter and receiver. The RF meter of the receiver should have full bars across the screen with matching frequency. The AF meter should display bars when you speak into the transmitter.

Selecting A Clear Channel

1. Turn **ON** the receiver and keep the transmitter **OFF**.

2. On the top of the display you will see 2 metered bars, **RF (Radio Frequency Indicator)** and **AF (Audio Frequency)**. Goal is to select a channel without RF and AF activity during selection process.

3. Groups and channels can be selected manually following the instructions above.

4. You can use **AUTO** function to select best available frequency within the selected group. Press the **AUTO** button after unlocking the system (no icons flashing). **AUTO** scan can take up to 30 seconds.

5. Turn on transmitter and sync it to the receiver. See instructions for "Syncing Transmitters".

6. For multiple systems, repeat step 3-5 for each transmitter. Turn on one transmitter at a time to make sure there's no interference on any of the other receivers.

Tips For Best Performance

1. If experiencing interference or signal dropouts, search and change to another channel using instructions above.

2. If signal dropouts persist, you may increase the transmitter signal strength in settings which should give the system longer range, at a slightly greater risk of experiencing interference.

3. If Interference is the persistent, try increasing the SQL (Squelch) set tings. Increasing the Squelch will help ignore audible artifacts / interference at the slight cost of transmission range. Experiment with adjusting the squelch and transmission signal strength for optimal performance.

4. If issues persist, please contact the Airwave Technologies support number or email so we may assist with troubleshooting and frequency selections.