



Wireless Console

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MWC Software

Quick Start

Introduction

In response to the need for integrated wireless system management, we have developed a new software management interface for the ACT-800 Series, ACT-700 Series, and ACT-500 Series, known as MWC (MIPRO Wireless Console). With the current hardware in place, there is no requirement for additional accessories, ensuring a more user-friendly operational experience and a more efficient workflow.

Notices:

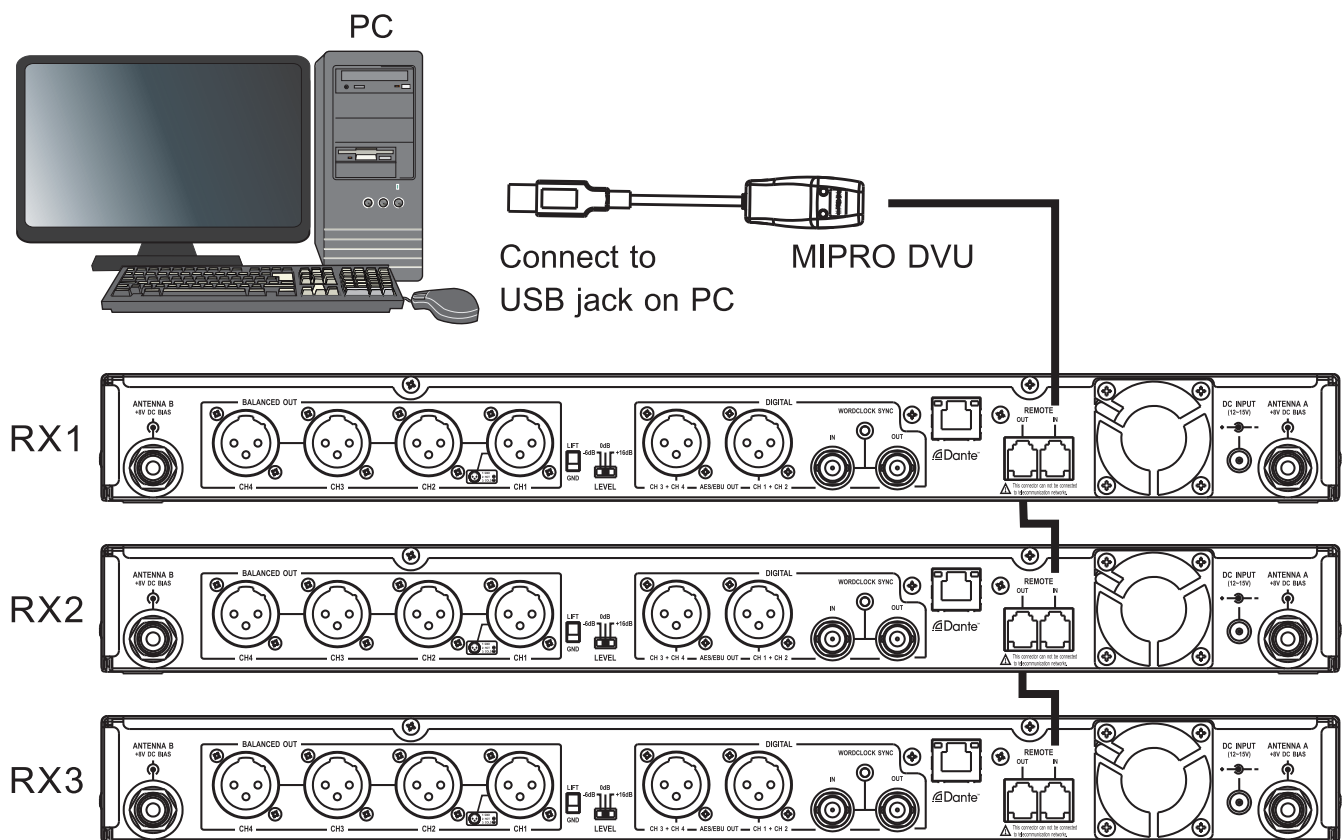
- Supported Products: ACT-800 Series, ACT-700 Series, ACT-500 Series
- Hardware Requirements: MIPRO DVU
- Supported OS:
 - Windows: Win 11, Win 10, Win 8
 - macOS: 13.5.2, supporting the M1 system
- Maximum Capacity: 64 channels

Operational Instructions

Before you begin, follow these necessary steps:

1. Connection

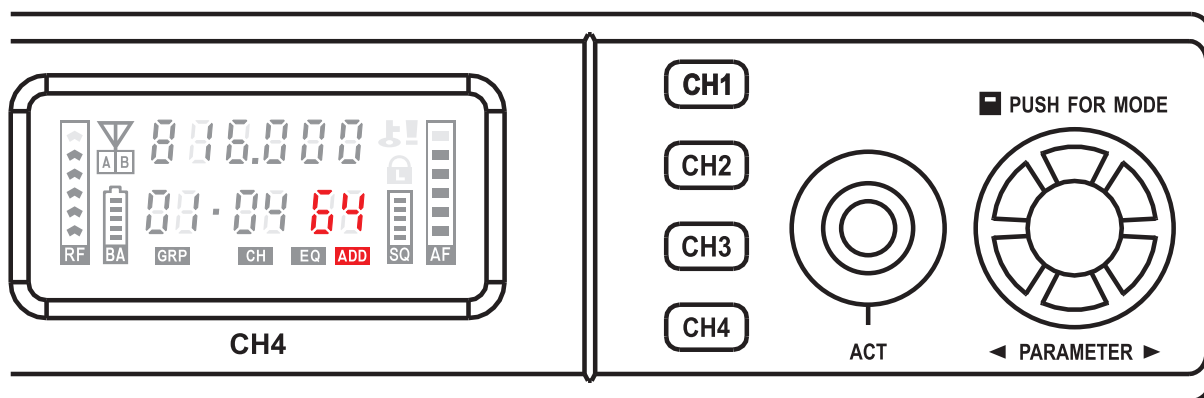
Connect the device to your laptop using the MIPRO DVU interface through an RJ-11 cable.



⚠ Note: The Maximum Capacity: 64 channels

2. Setting ADD

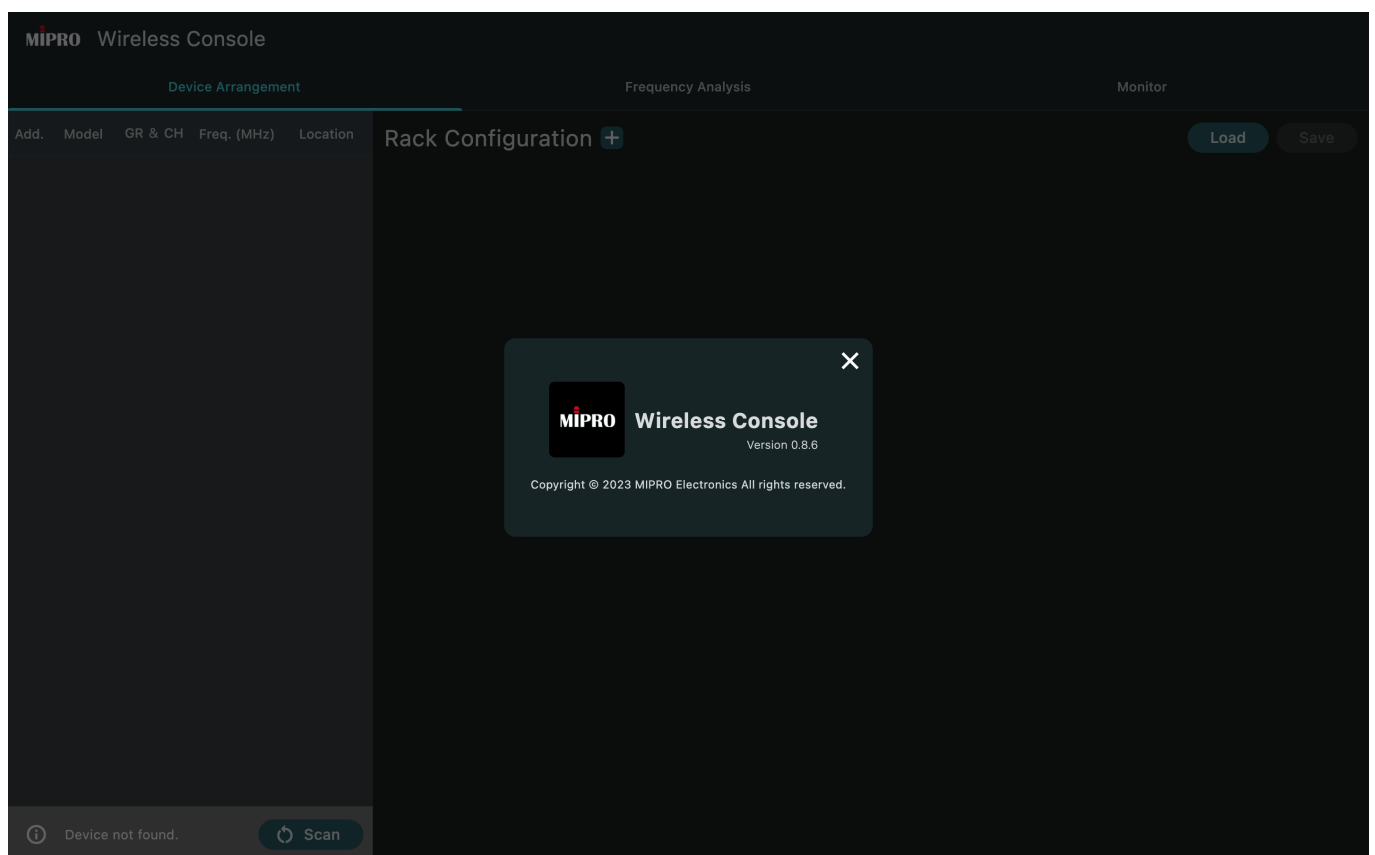
Set the ID-code for each channel and ensure each channel has a unique number.



⚠ Note: The Maximum Capacity: 64 channels

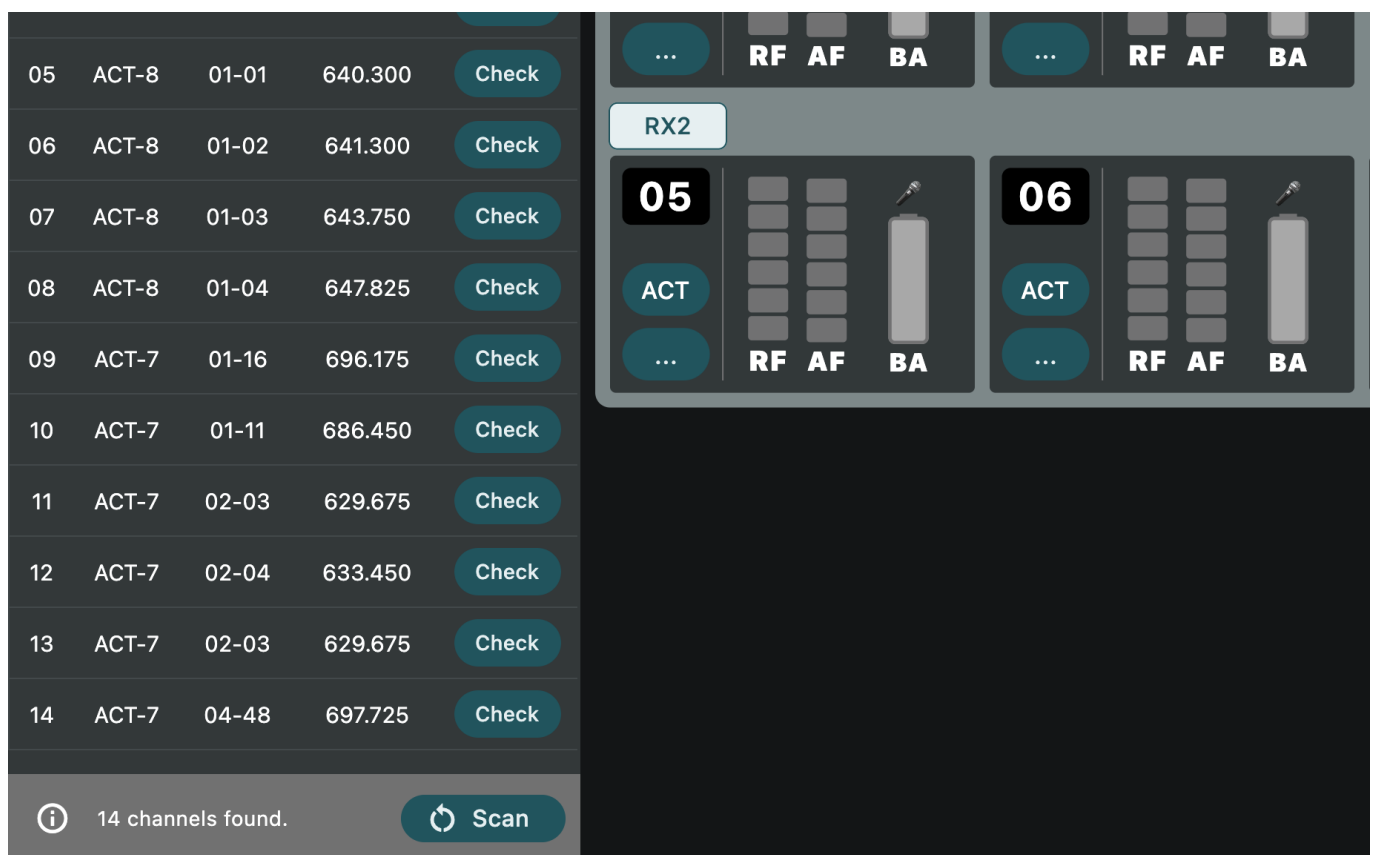
3. Check Your Firmware Version

Click on  at the top to check your firmware version.



4. Click on Scan

Check all the devices online and prepare to manage your system.



 **Note:** When devices are online, all panel controls will be locked.

Features

MWC comprises three main parts. You can set up the MIPRO wireless system using the following simple steps:

1. Device Arrangement

This interface is designed to simulate real-life setup scenarios, making it easier for you to identify each device.

The screenshot displays the MIPRO Wireless Console software interface. The top navigation bar includes three tabs: "Device Arrangement" (selected), "Frequency Analysis", and "Monitor".

On the left, under the "Device Arrangement" tab, there is a table with the following columns: Add., Model, GR & CH, Freq. (MHz), and Location. The table contains 8 rows of data, each with a "Check" button in the Location column.

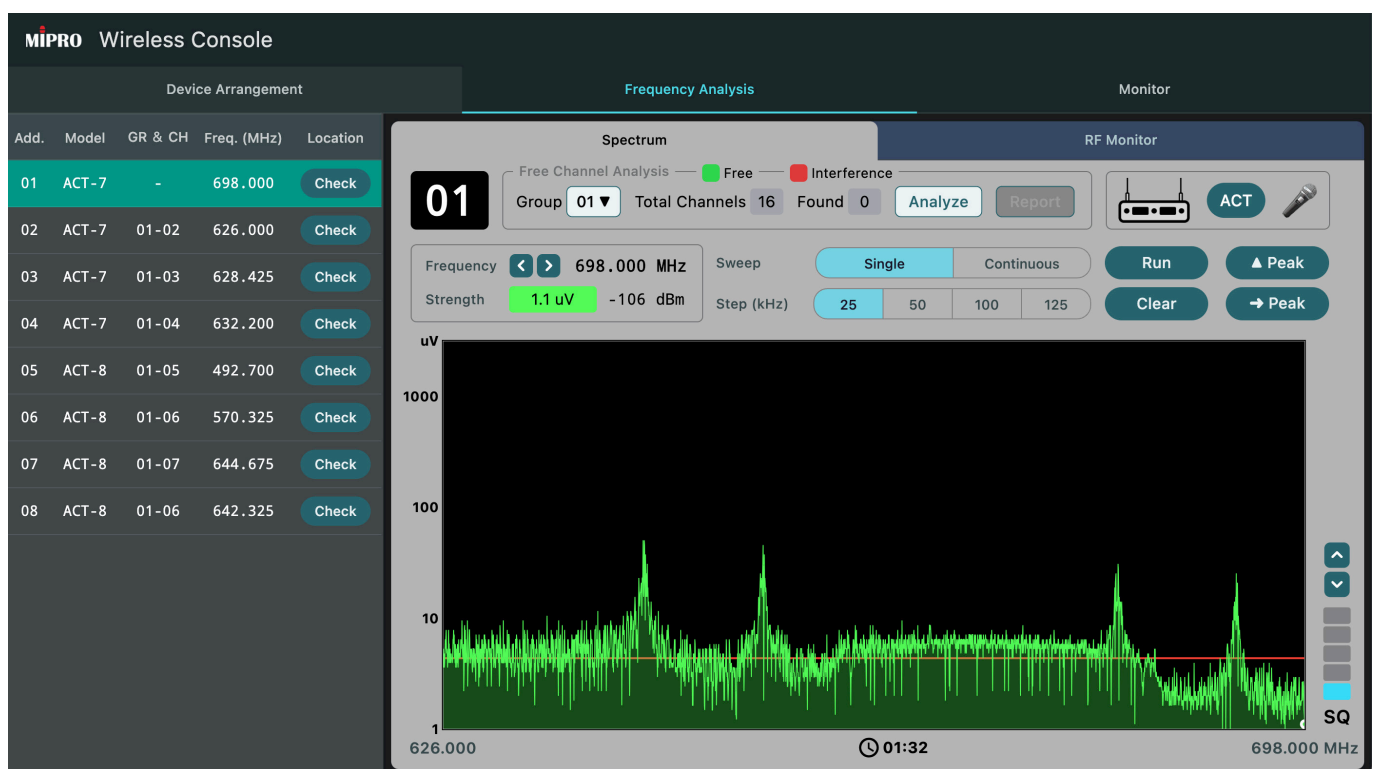
Add.	Model	GR & CH	Freq. (MHz)	Location
01	ACT-7	01-01	626.275	Check
02	ACT-7	01-02	626.775	Check
03	ACT-7	01-03	628.425	Check
04	ACT-7	01-05	636.700	Check
05	ACT-8	01-01	626.275	Check
06	ACT-8	01-02	626.775	Check
07	ACT-8	01-03	628.425	Check
08	ACT-8	01-04	632.200	Check

At the bottom left of the table area, there is a status bar showing "8 channels found." and a "Scan" button.

The main area of the interface is titled "Rack Configuration +". It displays three racks: RACK1, RACK2, and RACK3. Each rack contains a grid of device slots. RACK1 shows slots 01 and 02. RACK2 shows slots 05, 06, 07, and 08. RACK3 is currently empty. Each slot contains a device icon with labels: ACT, RF, AF, and BA. There are also "Load" and "Save" buttons at the top right of the Rack Configuration section.

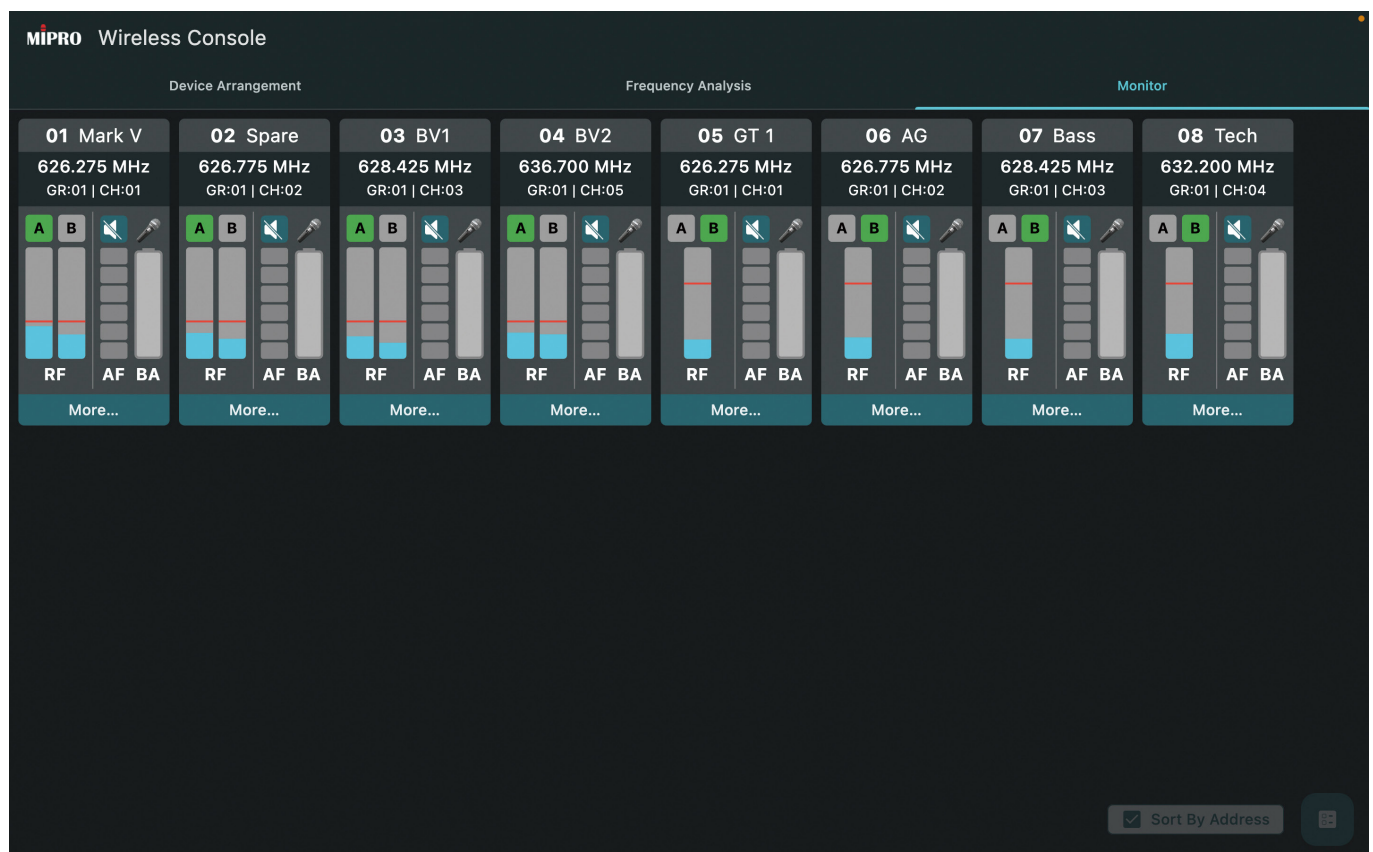
2. Frequency Analysis

This interface's most crucial feature allows you to check background RF noise to ensure the proper functioning of all devices.



3. Monitor

You have the flexibility to monitor all your devices within this interface or focus on specific devices as needed.



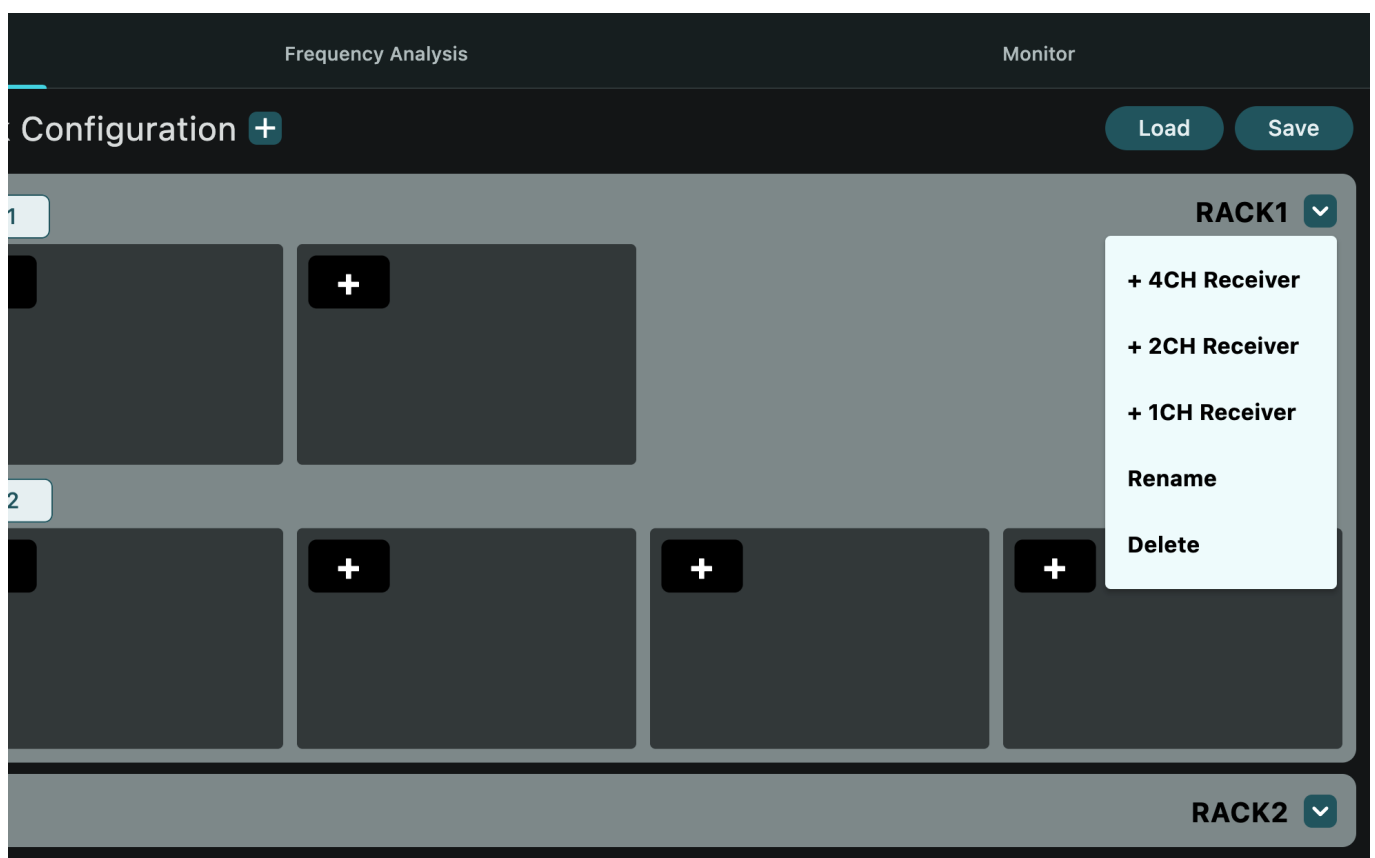
Device Arrangement: Build Your Virtual System

1. Click on **+** to set up your RACK to match the actual configuration.

The screenshot displays the MIPRO Wireless Console interface. The top navigation bar includes the MIPRO logo and the text 'Wireless Console'. Below this, there are two tabs: 'Device Arrangement' (which is active) and 'Frequency Analysis'. The 'Device Arrangement' tab contains a table with 10 rows of device information. Each row has columns for 'Add.', 'Model', 'GR & CH', 'Freq. (MHz)', and 'Location'. The 'Location' column contains a 'Check' button for each device. To the right of the table, there is a 'Rack Configuration' section with a '+' button. Below this button is a large, empty rectangular area, likely for visualizing the rack layout.

Add.	Model	GR & CH	Freq. (MHz)	Location
01	ACT-8	01-06	642.325	<button>Check</button>
02	ACT-8	01-08	651.700	<button>Check</button>
03	ACT-8	01-07	644.675	<button>Check</button>
04	ACT-8	01-08	651.700	<button>Check</button>
05	ACT-8	01-01	640.300	<button>Check</button>
06	ACT-8	01-02	641.300	<button>Check</button>
07	ACT-8	01-03	643.750	<button>Check</button>
08	ACT-8	01-04	647.825	<button>Check</button>
09	ACT-7	01-16	696.175	<button>Check</button>
10	ACT-7	01-11	686.450	<button>Check</button>

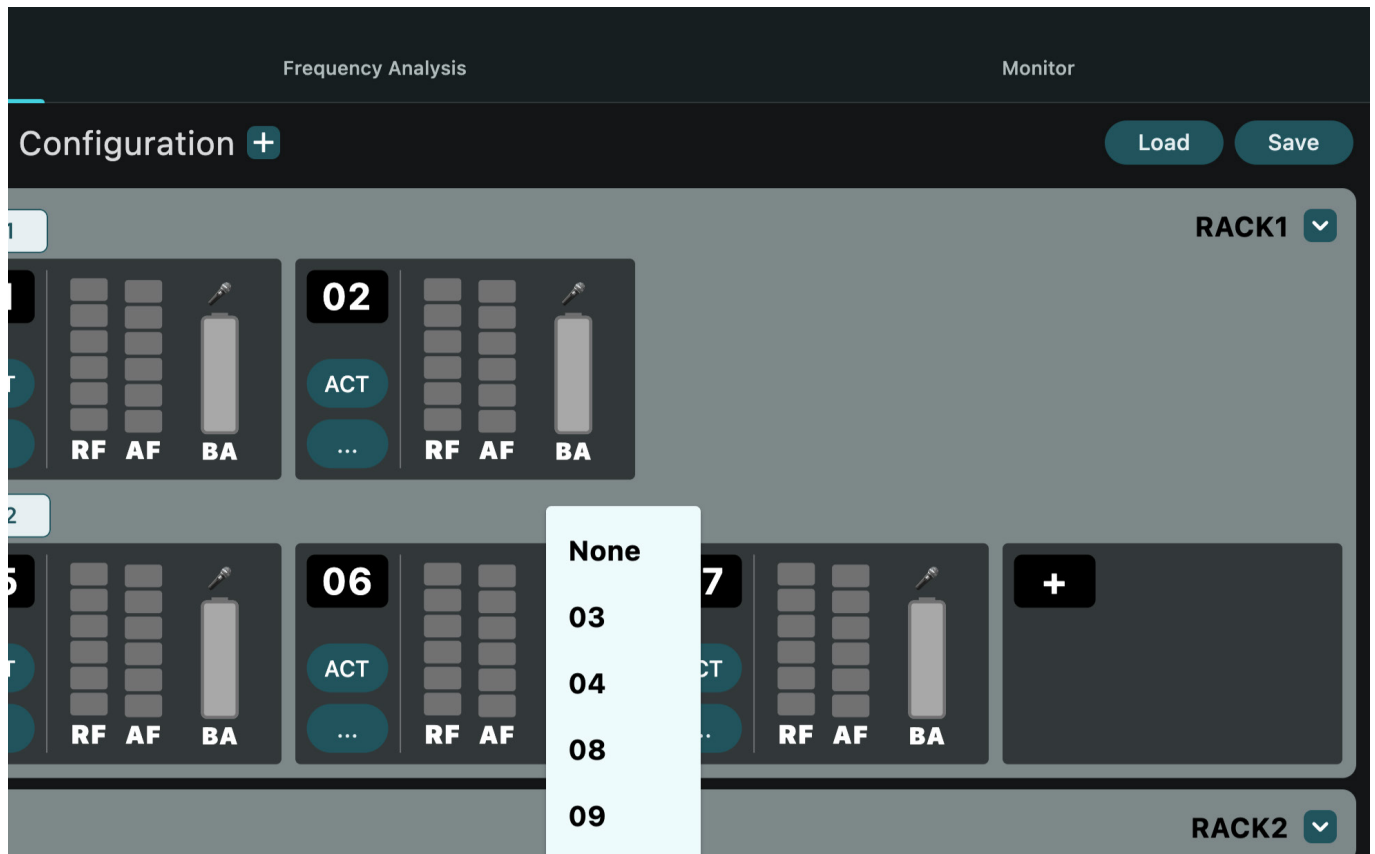
2. Click on  to add a device to your Racks to match the actual configuration and rename each rack.



Tips

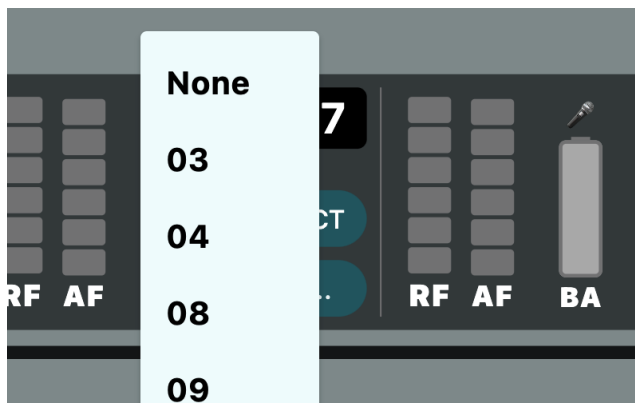
- 4CH Receiver is for ACT-848, ACT-747 and ACT-545.
- 2CH Receiver is for ACT-848, ACT-747 and ACT-525.
- 1CH Receiver is for ACT-818 and ACT-515.

3. Click on **+** to add the corresponding ADD into the appointed channel.



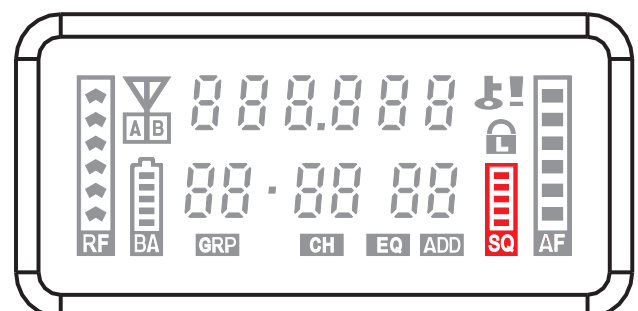
💡 Tip 1:

Only unassigned ADD can be selected. Click on "None" to release the assigned ADD.



💡 Tip 2:

Click on **Check** to locate the appointed channel. The SQ bar of the appointed channel will be flashing.



4. Click on Name Tag icon to rename or delete your devices.

The screenshot shows the MIPRO Wireless Console interface. On the left is a table titled "Device Arrangement" with columns: Add., Model, GR & CH, Freq. (MHz), and Location. It lists 10 devices. On the right is the "Rack Configuration" panel, which shows a grid of device slots. A context menu is open over slot 03, with options "Rename" and "Delete".

Add.	Model	GR & CH	Freq. (MHz)	Location
01	ACT-8	01-06	642.325	Check
02	ACT-8	01-08	651.700	Check
03	ACT-8	01-07	644.675	Check
04	ACT-8	01-08	651.700	Check
05	ACT-8	01-01	640.300	Check
06	ACT-8	01-02	641.300	Check
07	ACT-8	01-03	643.750	Check
08	ACT-8	01-04	647.825	Check
09	ACT-7	01-16	696.175	Check
10	ACT-7	01-11	686.450	Check



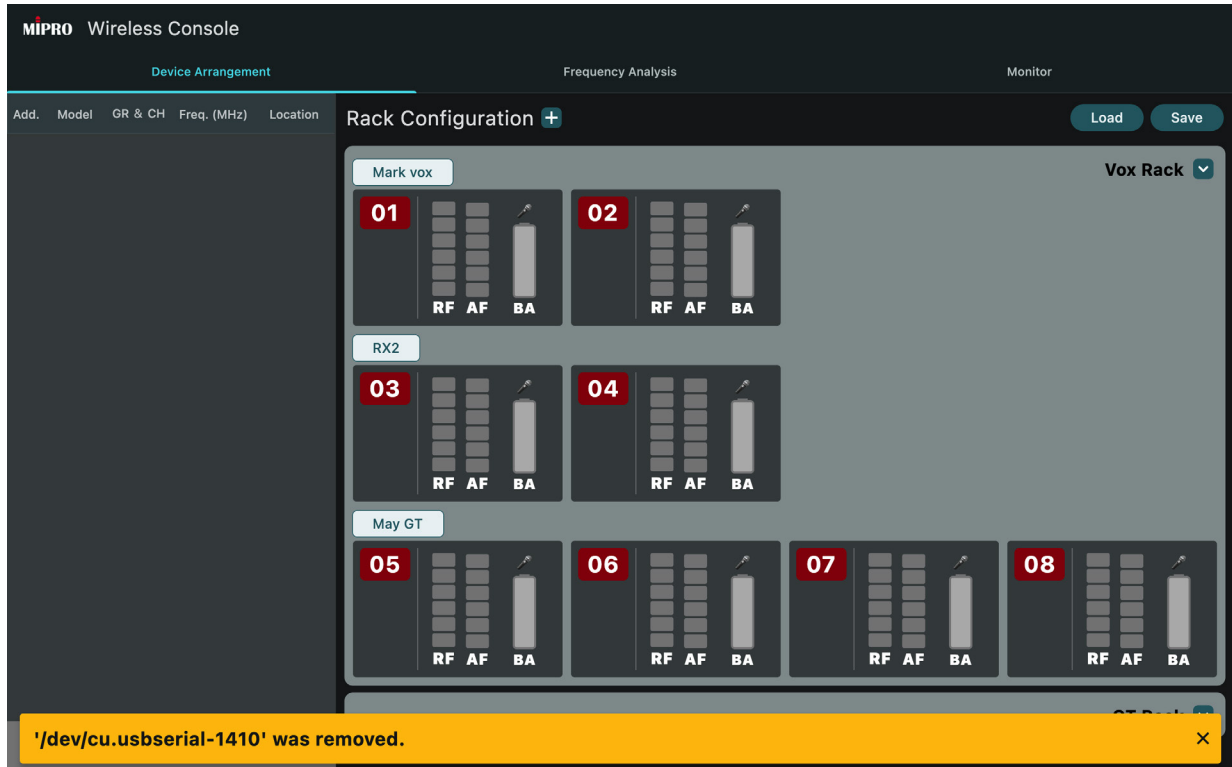
Tip 1:

Click on for detailed information.

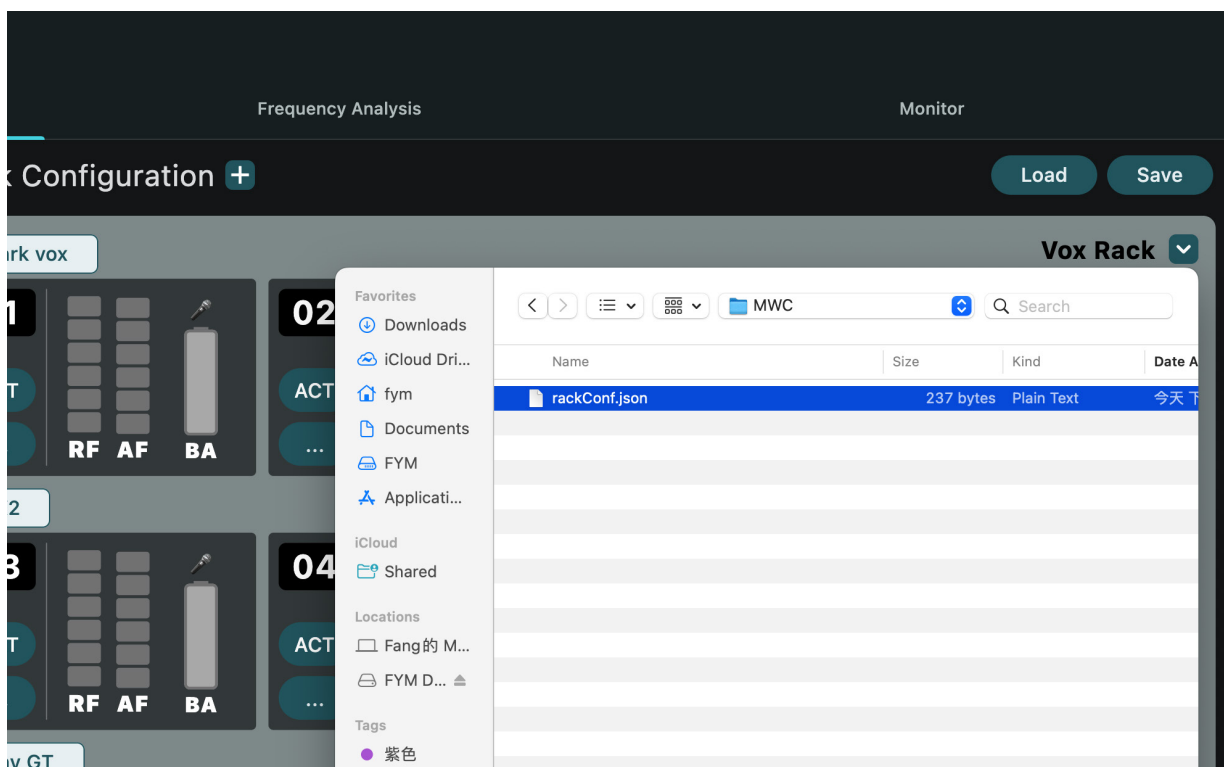
This screenshot shows the detailed configuration window for device 03, named "Bass". The window includes fields for Name, TV (45), Firmware (3.4A), Frequency (MHz) (644.675), Channel (626.000 ~ 698.000), and a list of antennas (A, Diversity, B). It also features an EQ section with sliders for RF, SQ, AF, and BA, and an Encryption toggle.

**Tip 2:**

The ADD number icons turn into red indicate the device is offline.

**Tip 3:**

Click on **Load** or **Save** to load / save your configuration.



Frequency Analysis: Manage Your RF System

1. Utilize your device as an RF analyzer to analyze your RF system.

■ Sweep Mode

- Single Mode: Sweep scan the bandwidth once to help identify obvious interference in the environment.
- Continuous Mode: Real-time scan and calculation, providing detailed information.

■ Sweep Step

- Narrow Grid (25kHz): Time-consuming but provides more information.
- Wide Grid (125kHz): Quick scan and provides an overview.



- ⚠ Notes:**
- Quick scan with Single Mode/Narrow Grid for fast background noise check.
 - Detailed scan with Narrow Grid for multi-channel arrangement.

2. Set SQ Level (Red line) higher than RF background noise.



! Notes:

- The data of background noise in the environment will be shown in the spectrum after scanning. Signals below the SQ red bar will be excluded from the analysis.
- Higher SQ level reduces surrounding interference, but the reception range will be limited accordingly.

3. Click on **Group 01 ▼** and select the favored group. Click on **Analyze** to scan the free channels in the selected group.

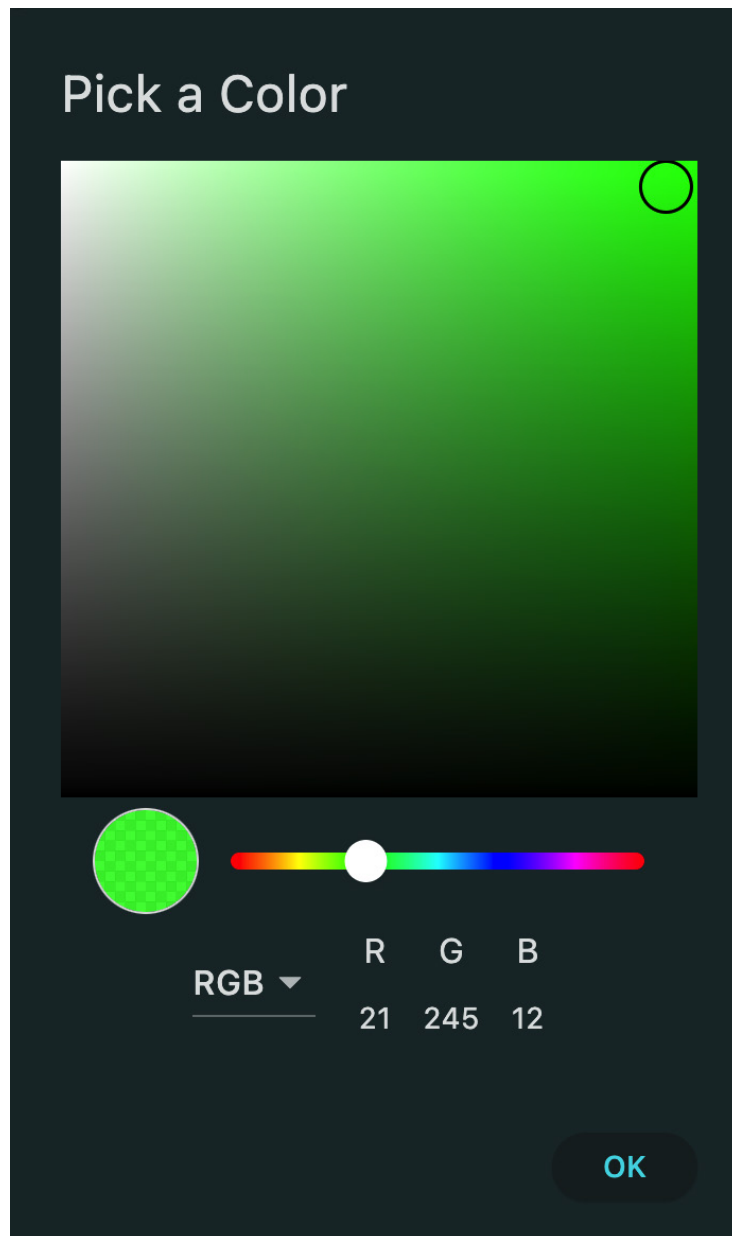


After the analysis is completed, it will be displayed on the spectrum whether each channel is eligible for use.



- **Total Channels** shows the maximum available channels.
- **Found** shows available channels at the moment.

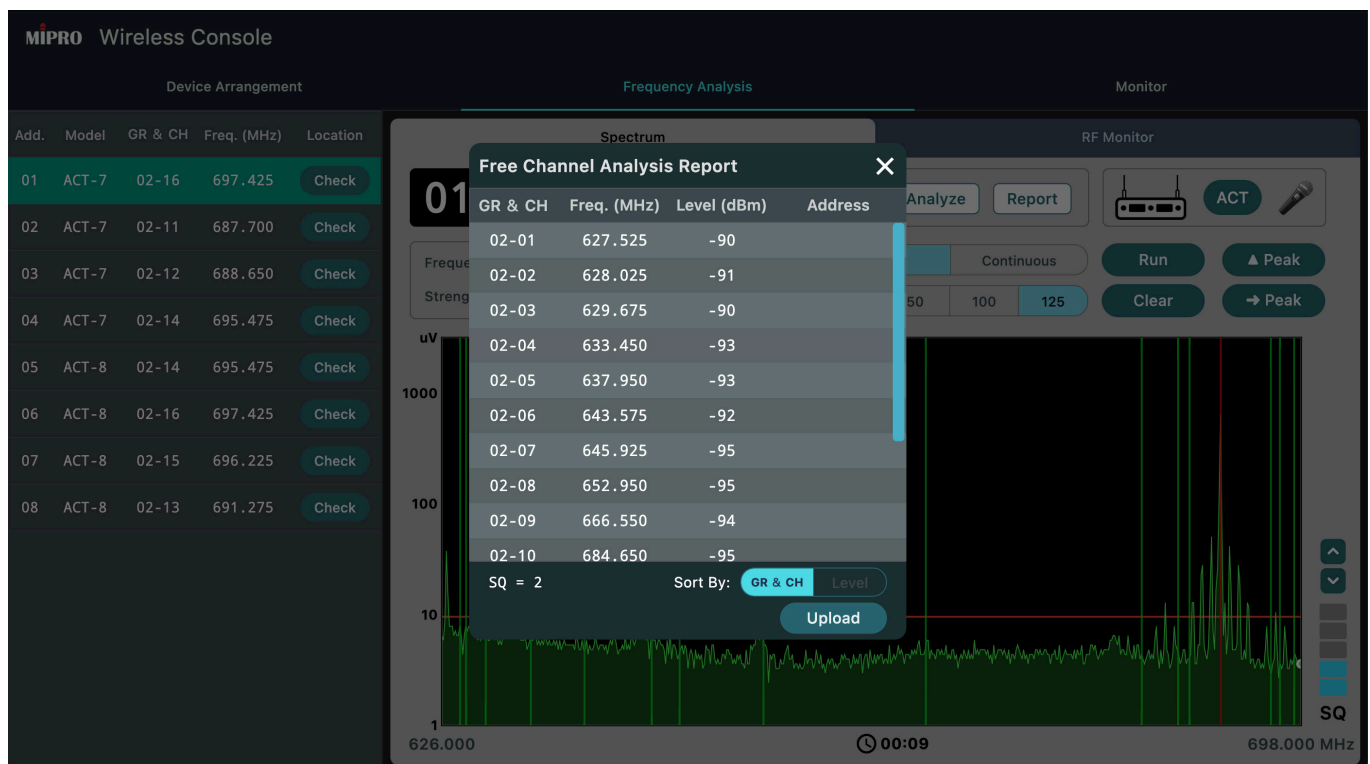
- Click  to customize the color.



Notes:

- The devices with the same frequency band are required to be set in the same group. All preset frequencies in the groups are carefully calculated to be least interfered with by each other.
- Additional interference is expected with different groups under the same frequency band.

4. Click on **Report** to see the channel analysis results.



⊙ Switch Sorting Modes

Select **GR & CH** for sorting the channels in numerical order of CH.

Select **Level** for sorting the channels based on the strength of the background noise.

⊙ Click on **Upload** and the channels will be updated to the receiver.

⚠ Note: The scanning result can only be uploaded to devices of the same series under the same frequency band.

5. RF Monitor page provides real-time signal strength monitoring.



Monitor: Customize Your Workspace

1. ☒ The device will appear in the working area.
☐ The device will be removed from the working area.

The screenshot shows the MWC Software interface with the 'Monitor' tab selected. The interface displays a grid of frequency analysis channels and a table of monitored devices.

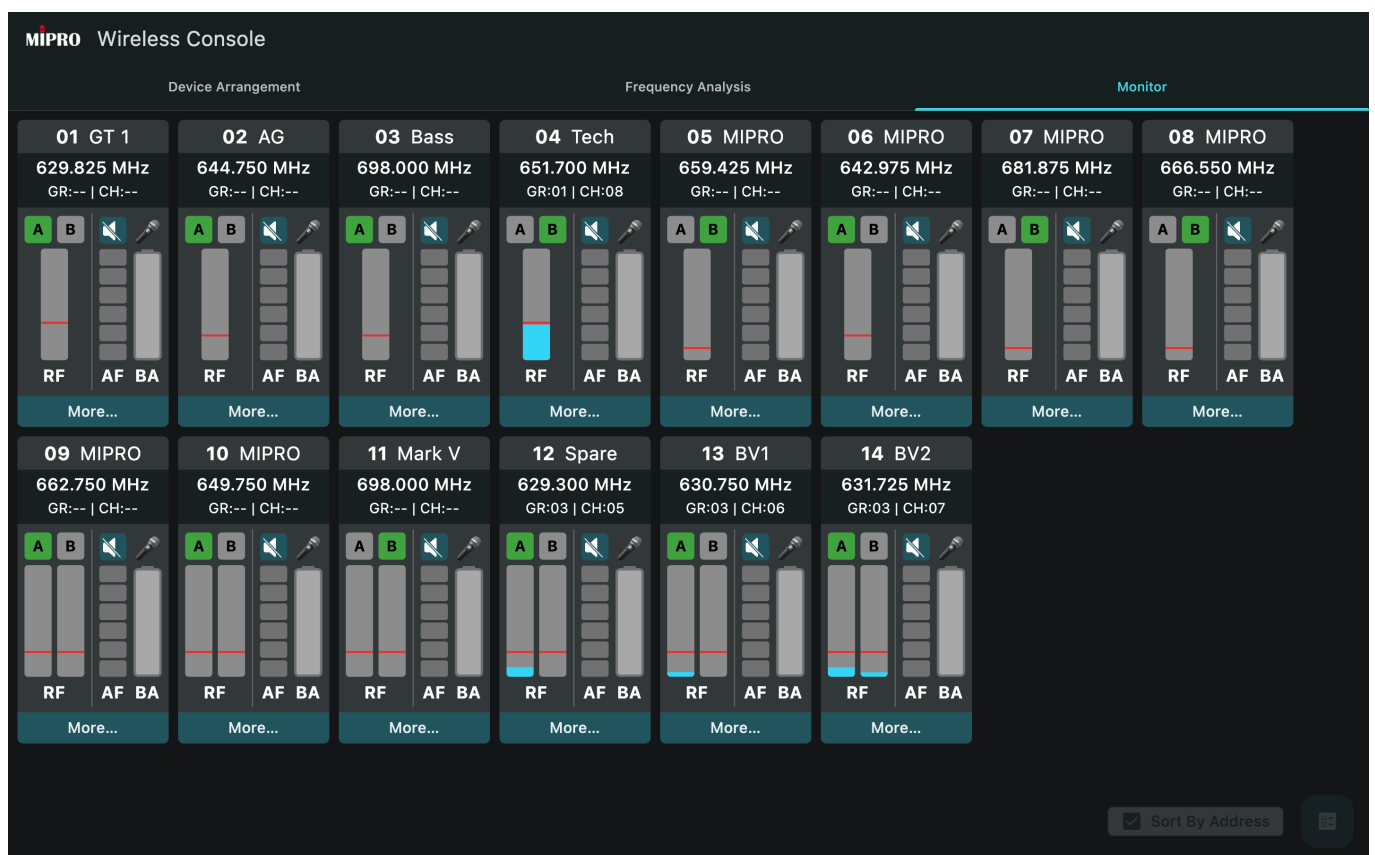
Frequency Analysis Channels:

Channel	Frequency (MHz)	GR	CH
03 Bass	698.000	--	--
04 Tech	651.700	01	08
05 MIPRO	640.300	01	01
06 MIPRO	642.975	--	--
11 Mark V	628.550	03	04
12 Spare	629.300	03	05
13 BV1	630.750	03	06
14 BV2	631.725	03	07

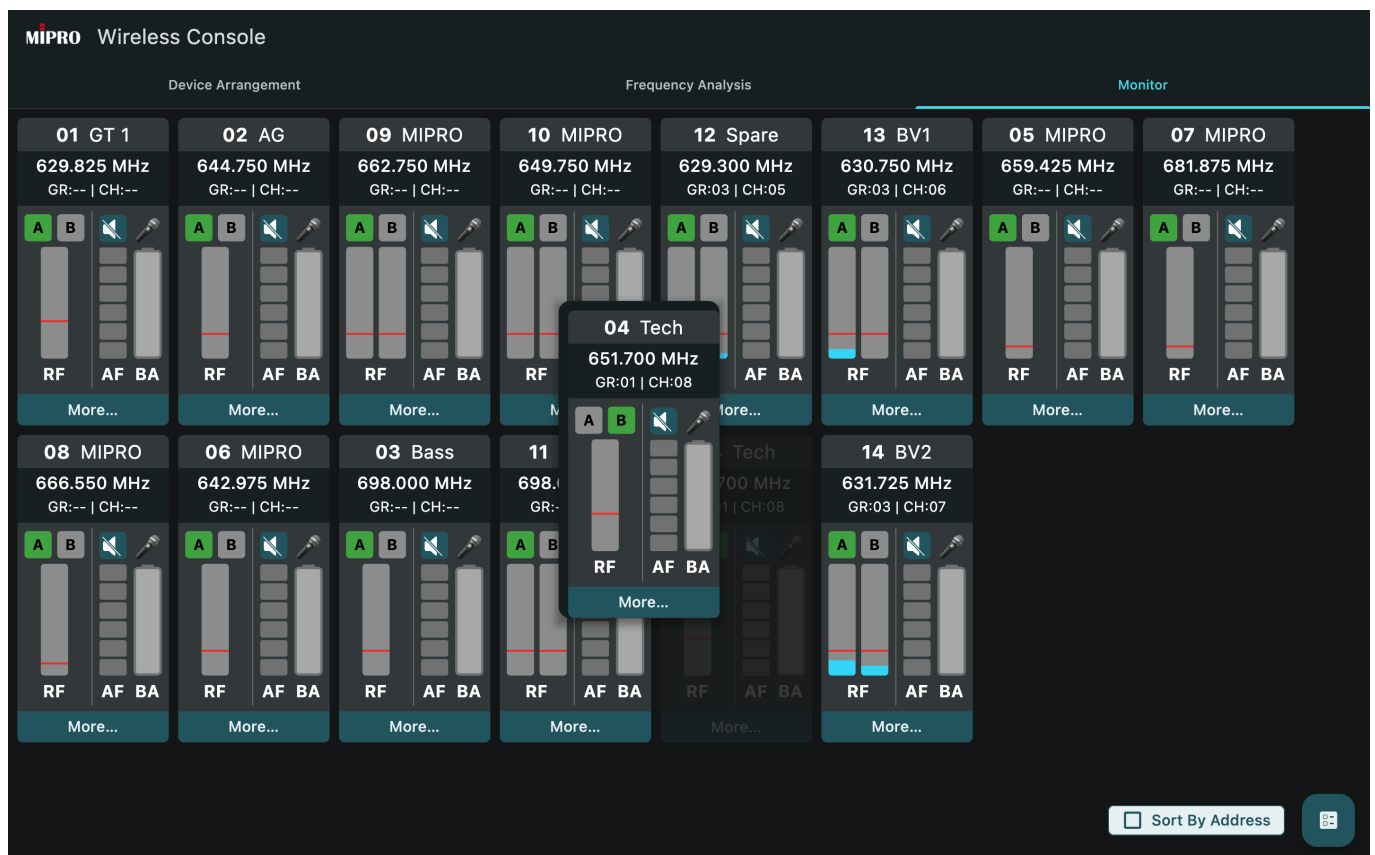
Monitored Devices Table:

Add.	Model	GR & CH	Freq. (MHz)	Status
01	ACT-8	01-06	642.325	<input checked="" type="checkbox"/>
02	ACT-8	-	698.000	<input checked="" type="checkbox"/>
03	ACT-8	-	698.000	<input checked="" type="checkbox"/>
04	ACT-8	01-08	651.700	<input checked="" type="checkbox"/>
05	ACT-8	01-01	640.300	<input checked="" type="checkbox"/>
06	ACT-8	-	642.975	<input checked="" type="checkbox"/>
07	ACT-8	-	681.875	<input checked="" type="checkbox"/>
08	ACT-8	01-04	647.825	<input checked="" type="checkbox"/>
09	ACT-7	-	633.950	<input checked="" type="checkbox"/>
10	ACT-7	03-03	628.150	<input checked="" type="checkbox"/>
11	ACT-7	03-04	628.550	<input checked="" type="checkbox"/>
12	ACT-7	03-05	629.300	<input checked="" type="checkbox"/>

2. Overview page



3. Manually arrange your devices.



Tip:

Click on ☐ **Sort By Address** , and the working space will reset to the default arrangement.

4. Click on **More...** for fast adjustment of the group/channel, name tag, etc., of your selected device.

