

### MIPRO 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 and ACT-700 Series, known as MWC (MIPRO Wireless Console). With the current hardware in place, there is no requirement for additional accessories, ensuring a more userfriendly operational experience and a more efficient workflow.

### Notices:

- Supported Products: ACT-800 Series, ACT-700 Series
- Hardware Requirements: MIPRO DVU
- Supported OS:

Windows: Win 11, Win 10, Win 8

macOS: 13.5.2, supporting the M1 system

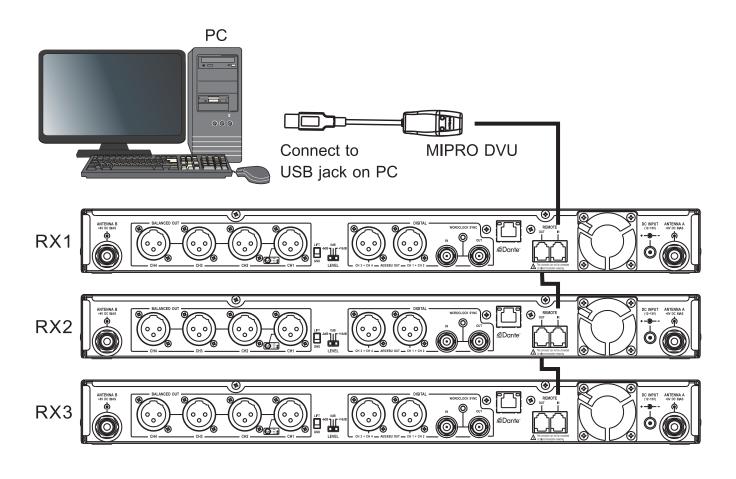
Maximum Capacity: 64 channels

## **Operational Instructions**

Before you begin, follow these necessary steps:

#### 1. Connection

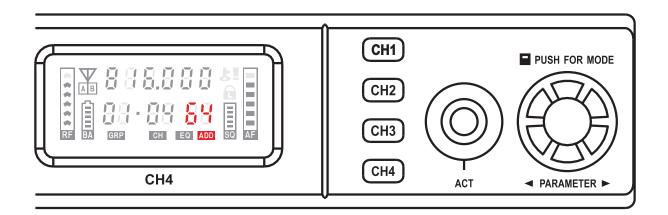
Connect the device to your laptop using the MIPRO DVU interface through an RJ-11 cable.



**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 **MiPRO** at the top to check your firmware version.

MIPRO Wireless Console		
Device Arrangement		Monitor
Add. Model GR & CH Freq. (MHz) Location	Rack Configuration 🛨	Load Save
	MIPRO Wireless Console Version 0.8.6 Copyright © 2023 MIPRO Electronics All rights reserved.	
Device not found.    Scan		

#### 4. Click on ( Scan

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

05	ACT-8	01-01	640.300	Check	•••	RF	AF	BA		RF AF	
06	ACT-8	01-02	641.300	Check	RX2	)				1	
07	ACT-8	01-03	643.750	Check	05				06		
08	ACT-8	01-04	647.825	Check	АСТ				АСТ		
09	ACT-7	01-16	696.175	Check		RF	AF	BA		RF AF	 
10	ACT-7	01-11	686.450	Check							
11	ACT-7	02-03	629.675	Check							
12	ACT-7	02-04	633.450	Check							
13	ACT-7	02-03	629.675	Check							
14	ACT-7	04-48	697.725	Check							
(j	14 chanr	nels found.	Ċ	) Scan							

**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.

Frequency Analysis Monitor ation + Load Save RACK1 • 02 • • • • • • • • • • • • • • • • • • •
RACK1 💟
ACT
BA RF AF BA
RACK2 💟
BA RF AF BA RF AF BA RF AF BA
RACK3 💟

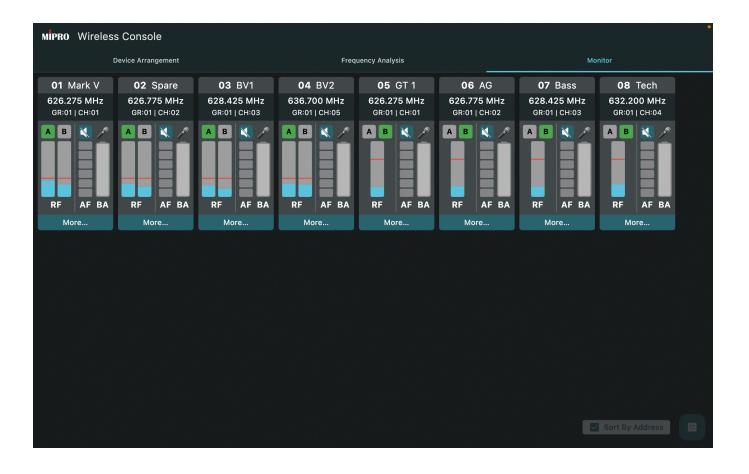
### 2. Frequency Analysis

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.

MĪP	PRO W	/ireless (	Console		
		Dev	vice Arrangeme	nt	Frequency Analysis
Add.	Model	GR & CH	Freq. (MHz)	Location	Rack Configuration +
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	

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

	Frequency Analysis		Monitor	
Configuration $\pm$				Load Save
1				RACK1 🗹
	•			+ 4CH Receiver
				+ 2CH Receiver
				+ 1CH Receiver
2				Rename
	+	+	<b>H</b>	Delete
				I
				RACK2 💟



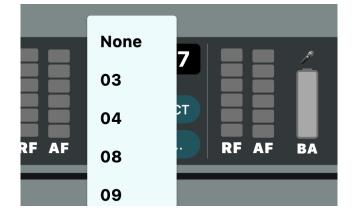
- 4CH Receiver is for ACT-848 and ACT-747.
- 2CH Receiver is for ACT-828 and ACT-727.
- 1CH Receiver is for ACT-818.

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

Frequency Analysis		Monitor
Configuration +		Load Save
1 02 ACT	í	RACK1 💟
RFAF BA RFAF	BA	
OG ACT RF AF BA RF AF	03 04 08	+
	09	RACK2 💟

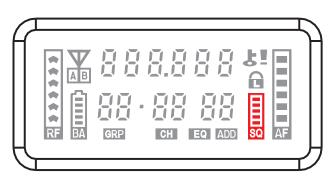


Only unassigned ADD can be selected. Click on "None" to release the assigned ADD.





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.

MİP	PRO W	ireless (	Console		
		Dev	ice Arrangeme	ent	Frequency Analysis
۰dd.	Model	GR & CH	Freq. (MHz)	Location	Rack Configuration 🛨
01	ACT-8	01-06	642.325	Check	Mark vox
02	ACT-8	01-08	651.700	Check	01 = 2 02 = 2
03	ACT-8	01-07	644.675	Check	
04	ACT-8	01-08	651.700	Check	ACT
05	ACT-8	01-01	640.300	Check	RF AF BA RF AF BA
06	ACT-8	01-02	641.300	Check	RX2
07	ACT-8	01-03	643.750	Check	Rename 04
08	ACT-8	01-04	647.825	Check	Delete
09	ACT-7	01-16	696.175	Check	···· RF AF BA ···· RF AF BA
10	ACT-7	01-11	686.450	Check	May GT



Click on \_\_\_\_\_ for detailed information.

						×						
			03		Page							
		Mark vox	- Group		Bass	<b>`</b>					Vox R	ack 🔽
		01	01	ту 45		a 3.4A						
			Channel —	Frequenc	4.67	5 🔼						
			07		<b>+.0</b> /							
		RX2	ACT	<u>⊨</u>		_ /**						
		03	02	Antenna	Diversity	в						
					orversity							
				R	Encryption							
		May GT	AB		×							
		05	1000			-	07			08		
			100 10									
			1					RF AF	ва		RF AF	ва
			(uV) <b>RF</b>	SQ	AF	BA		Ar	DA	المشهر ا	AF	BA

## -🏷 - Tip 2:

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

MIPRO Wireless Console		
Device Arrangement	Frequency Analysis	Monitor
Add. Model GR & CH Freq. (MHz) Location	Rack Configuration 🕂	Load Save
	Mark vox 01 02 04 04 04 04 04 04 04 04 04 04	Vox Rack 💌
	May GT	
	05 RF AF BA RF AF BA	07 RF AF BA
		at as the main and a second se
'/dev/cu.usbserial-1410' was re	moved.	×

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

Frequency	/ Analysis		Monitor		
Configuration $\pm$				Load	Save
ırk vox				Vox R	ack 🗹
1 = = 🔬 02	Favorites	< >	0	Q Search	
	< iCloud Dri	Name	Size	Kind	Date A
Т	😭 fym	ackConf.json	237 byt	es Plain Text	今天下
	🕒 Documents				
RF AF BA	🖨 FYM				- 1
2	🙏 Applicati				
	iCloud				_
3 9 04	C Shared				_
	Locations □ Fang的 M				_
	⊖ FYM D ≜				- 1
RF AF BA	⊡ T TW D =				
	Tags				
iy GT	● 紫色				

### 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.

MI	PRO V	Vireless	Console			
		Dev	vice Arrangeme	ent	Frequency Analysis Monitor	
Add.	Model	GR & CH	Freq. (MHz)	Location	Spectrum RF Monitor	
01	ACT-8	01-01	626.275	Check	Free Channel Analysis      Group 03 ▼      Total Channels 48      Found 48      Analyze      Upload	
02	ACT-8	01-02	626.775	Check		
03	ACT-8	01-03	628.425	Check	Frequency    Step (kHz)    Single    Continuous    Run    Clear      Strength    1.5 uV    -103 dBm    Step (kHz)    25    50    100    125    A Peak    → Peak	
04	ACT-8	01-04	632.200	Check	Strength        1.5 uV        -103 dBm        Step (kHz)        25        50        100        125        ▲ Peak        → Peak	
05	ACT-8	01-01	640.300	Check	1000	
06	ACT-8	01-02	641.300	Check		
07	ACT-8	01-03	643.750	Check		
08	ACT-8	01-04	647.825	Check	100	
09	ACT-7	01-16	696.175	Check		
10	ACT-7	01-11	686.450	Check		
11	ACT-7	02-03	629.675	Check		
12	ACT-7	02-04	633.450	Check		2
13	ACT-7		651.875	Check		
14	ACT-7	04-48	697.725	Check		
					1 00:06 698.000 M	

• 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.



### \Lambda 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.

sole									
rangeme	nt		Frequer	ncy Analysis				Monito	or
(MHz)	Location		Spectrum					RF Monitor	
3.000	Check	Group	annel Analysis — 01 ▼ Total Ch	annels 16	Found 15	Analyze	Upload		АСТ
3.000	Check		01						
1.675	Check	Frequency < >	łz	Sweep	Single	Conti	nuous	Run	Clear
1.700	Check		02 n	Step (kHz)	25 5	0 100	125	▲ Peak	→ Peak
0.300	Check	uV 1000	03						
.300	Check		04						
			05						
3.750	Check		06						
7.825	Check	100	07						
6.175	Check		08						
5.450	Check		00						
9.675	Check								

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

### \Lambda 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 Upload to upload scanning results to your selected device.

			Frequency Analysis		Monitor					
Spectrum					RF Monitor					
Group 02 Total Channel Analysis Free Channel Upload Results X										
Frequency		GR & CH	Freq. (MHz)	Address le	Continuous Run Clear					
Strength	1.	03-01	626.050	09	50 100 125 ▲ Peak → Peak					
uV		03-03	628.150	10						
1000		03-04	628.550	11						
		03-05	629.300	12						
		03-06	630.750	13						
		03-07	631.725	14						
100		03-08	634.600							
		03-09	635.700							
		03-10	636.150							
		03-11	637.175							
		03-12	639.100							
10		03-13	640.150							

**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.

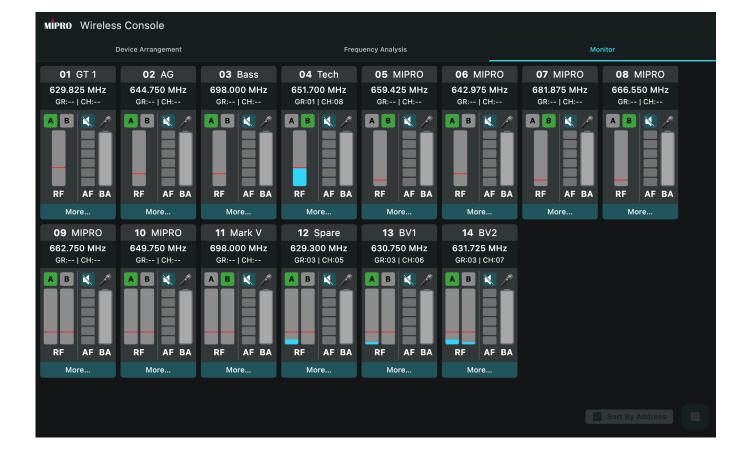


## Monitor: Customize Your Workspace

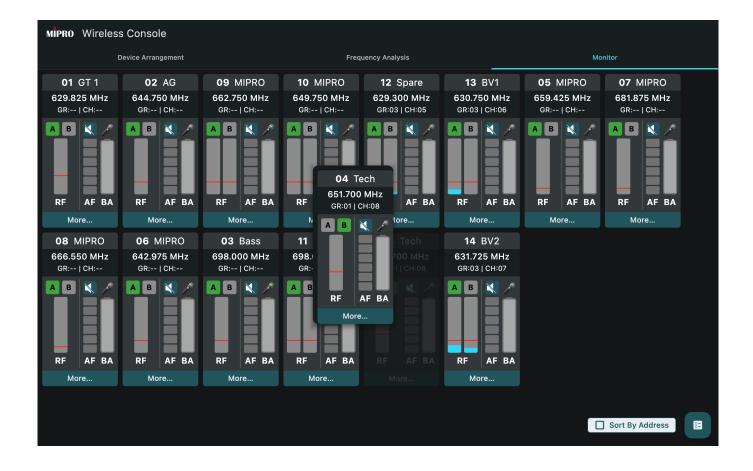
The device will appear in the working area.
 The device will be removed from the working area.

ent	Frequency Analysis						Monitor					
	03 Bass	04 Tech	05 MIPRO	06 MIPRO	Ad	d. Model	GR & CH	Freq. (MHz)	✓			
ИНz :	<b>698.000 MHz</b> GR:   CH:	<b>651.700 MHz</b> GR:01   CH:08	640.300 MHz GR:01   CH:01	642.975 MHz GR:   CH:	0'	ACT-8	01-06	642.325				
100	А В 🔊 🎤	A B 🔊 🎤	А В 🔊 🎤	А В 🔊 🎤	<b>0</b> 2	2 ACT-8		698.000	<			
					03	B ACT-8		698.000				
					04	ACT-8	01-08	651.700				
- BA	RF AF BA	RF AF BA	RF AF BA	RF AF BA	05	5 ACT-8	01-01	640.300				
	More	More	More	More	06	6 ACT-8		642.975				
20	11 Mark V	12 Spare	<b>13</b> BV1	<b>14</b> BV2	07	ACT-8		681.875	✓			
<b>/Hz</b> :03	628.550 MHz GR:03   CH:04	<b>629.300 MHz</b> GR:03   CH:05	<b>630.750 MHz</b> GR:03   CH:06	<b>631.725 MHz</b> GR:03   CH:07	08	B ACT-8	01-04	647.825	<			
10	А В 📉 🎤	А В 📉 🔊	А В 📐 🎤	А В 🔊 🔊	09	ACT-7		633.950				
					10	ACT-7	03-03	628.150				
					11	ACT-7	03-04	628.550	<b>~</b>			
					12	ACT-7	03-05	629.300				

### 2. Overview page



### 3. Manually arrange your devices.



- Ž 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.

MIPRO Wireless	s Console								
ſ		×			Monitor				
<b>01</b> GT 1	<b>02</b> AG	09 MIPRO	04	Name		BV1	05 MIPRO	07 MIPRO	
629.825 MHz GR:   CH:	644.750 MHz GR:   CH:	662.750 MHz GR:   CH:	Group	Tec		0 MHz CH:06	659.425 MHz GR:   CH:	681.875 MHz GR:   CH:	
			01 Channel 08	TV 46 Firmw Frequency (MHz) – 651.70 626.000 ~ 698			A		
RF AF BA	RF AF BA	RF AF BA	АСТ		<b>A</b>	AF BA	RF AF BA	RF AF BA	
More				C Antenna					
08 MIPRO 666.550 MHz GR:   CH:	<b>06</b> MIPRO 642.975 MHz GR:   CH:	03 Bass 698.000 MHz GR:   CH:	09	A Diversit	ty B	BV2 5 MHz сн:07			
A B AF BA	A B	A B A A	A B 1000 100 10	Encryption		AF BA			
More			1 (uV) <b>RF</b>	SQ AF	ВА				
								] Sort By Address	0- 0-