

数字UHF无线系统
Digital Wireless UHF System

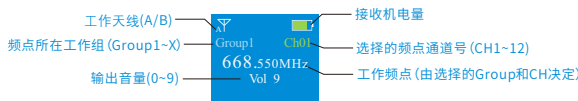
机架式接收机 说明书

产品外观



操作说明

1. 无无线连接主界面

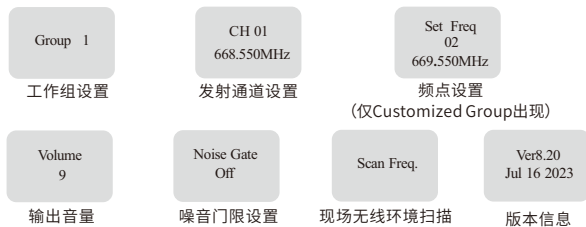


2. 有无线连接主界面



3. 设置界面

短按底部SET键按以下次序循环,短按面板按键修改参数。



4. 无线信道管理逻辑

本设备遵循“Group(组) - Channel(无线通道) - Frequency(频点)”逻辑。

Group(组):系统内置若干个无线通道组(根据不同国家区域,不同Firmware版本有所区别),每个组包括12个无线通道。

CH(无线通道):每个无线通道绑定一个无线频点,同一Group下的无线频点为系统推荐频点,可以有效规避“互调干扰”。

Frequency(频点):只能通过选择不同CH进行更改(Group 7除外)。

Customized Group(自定义组):最后一组为自定义频点组,本组频点可手工更改,需人工规避“互调干扰”。

- 发射端、接收端需调设在相同Group(组)、相同CH(无线通道)下,才可工作。

5. 自动配对使用方法

发射机与接收机长按设置键即可进入配对模式;将接收机的红外发射器对准发射机的红外接收器,即可完成配对。

一旦启动红外对外频功能,接收机将进行扫描,自动跳转至本组最干净的频点,再与发射机完成配对。如需设定指定频点,必须手动完成。

早期软件版本,自动配对时,必须保持发射机和接收机在同一频率组内。

6. 操作说明

- 开机:底部拨码开关,设备启动,开机后将停留在首界面。

- 设置:主界面按下“设置键”,按次序可切换,按“状态键”修改设置。

- 组别设置, Set Group;
- 通道设置, Set Channel;
- 频率设置, Set Frequency:只有第5组支持自定义频率;
- 设置输出音量, Set Volume:1~9;
- 设置噪音门限, Set Noise Gate:能改善底噪过滤, OFF / ON。

6. 现场无线环境扫描, Scan Freq:扫描本Group下所有频点的信号强度。显示“CH1 -78dB”,即CH1通道信号强度-78dB。该数值越低,说明干扰越少,适合使用。例如:-78dB好于-68dB。如大于-50dB,建议不要使用该频点。

- 如多组设备同时工作,各组间必须设置不同组别及频点,并且必须避免设置为互调干扰频点,才可正常工作,否则将出现干扰(参考互调干扰)。
- 调音台如果处于幻象电压工作状态时,直接插入接收机会导致烧毁设备。

性能参数

通信模式	UHF段无线电数字通信
调制方式	Pi/4 DQPSK
传输频段	510~590Mhz, 600~698MHz(根据地区和Firmware不同有所差别)
传输距离	>110米(与信号的吸收、反射、干扰和选择的性能选项相关)
频响衰减	<2dB (20Hz~20KHz)
信噪比 S/N	>100dB
失真度 T.H.D	<0.03% (@1KHz)
时延	<4.2ms
天线	500Mhz & 600MHz, BNC接口外置胶棒天线
续航	>24h,支持工作状态充电
供电	18650锂电池(3.7V) *2, Type C USB充电
重量/尺寸	180g / 35mm*100mm*142mm

常见问题

- 如果连接电话话筒无信号输出,请检查是否选择了幻象电源。
- 当使用性能不佳充电锂电池时,其降压电路会干扰接收机的性能。
- 多套设备同时使用时,如频点设置不当,容易由于互调干扰造成性能下降。
- 某些品牌MIC因信号屏蔽不佳可能造成干扰,可启用卡农延长管解决。
- 因为动圈话筒比电容话筒能量低!如接动圈话筒,必须加发射增益(建议+9dB);如果仅增加调音台增益,会误认为底噪声雷大!

警告



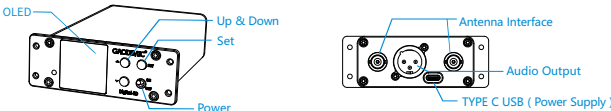
请使用合格电池!如发现电池异常,请立即停止设备工作,避免危险和损坏!



请尽量避免设备长时间暴晒,或高温环境工作,避免性能下降,甚至致损坏!

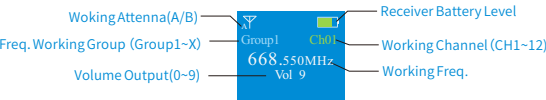
Digital UHF Wireless System Rack Receiver Manual

Product Instructions



Operation Instructions

1. Main interface (without Linking)

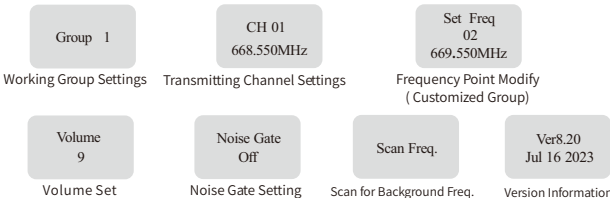


2. Main interface (with Linking)



3. Setting Interface

Short press the SET Key to cycle in the following order, and short press the panel buttons to modify the parameters.



4. Wireless Channel Management Logic

This device follows the "Group - Channel - Frequency" logic.

Group: The system has several channel groups (base on different region and firmware), and of 12 channels for each group.

CH (wireless channel): Each channel is bound to a wireless frequency point, and the wireless frequency points under the same group are recommended, which can avoid "intermodulation interference" effectively.

Frequency: can only be changed by selecting a different CH (except for Group 7).

Customized Group: The last group is customized group, and frequency points of this group can be manually changed.

The transmitter and receiver must be set to the same Group and CH for work.

5. Automatic Pairing

Long press the SET key between the transmitter and receiver to enter the mode; Align the receiver's "Infrared Transmitter" with the transmitter's "Infrared Receiver" to complete the pairing.

6. Operating instructions

- Power on: The bottom dial switch will activate the device, and it will remain on the homepage after startup.
- Settings: Press the "Settings" button on the main interface to switch in order, and press the "Status" button to modify the settings.
- If multiple sets of devices are working simultaneously, different groups and frequency points must be set between each group, and intermodulation interference frequency points must be avoided in order to operate normally. Otherwise, interference will occur.

Performance Parameters

communication mode	UHF band radio digital communication
modulation	PI/4 DQPSK
Band	510~590MHz, 600~698MHz (Varies depending on region)
Distance	100~120M (related to signal absorption, reflection, interference, and selection)
Freq. Response Attenuation	<2dB (20Hz~20KHz)
S/N	>97dB
T.H.D	<0.03% (@1KHz)
Time Delay	<4.2ms
Antenna	600MHz x 2 & 500MHz x 2 (Base on different region)
Endurance	>5h(@48 Phantom); >6.5h(@24Phantom)
Power Supply	18650 Li Battery (3.7V) *2
Weight/Size	180g / 35mm*100mm*142mm

References

1. If no signal output with the condenser microphone, please check whether the phantom power supply is selected.
2. The low-quality Li battery be adopted, its will interfere with the performance.
3. Some Mic. may cause interference due to poor signal shielding, which can be solved by using Cannon extension tube.
4. Because dynamic Mic have lower energy than condenser Mic! If connected to a dynamic Mic, a Gain (recommended +9dB) must be added; If you only increase the gain in the mixer, you will mistakenly think the background noise grenade is large!

Warning

- Fake and inferior batteries may cause leakage or even explosion. If abnormal states are found for batteries, please stop to work immediately!
- Long-term exposure to the sun may cause performance degradation!