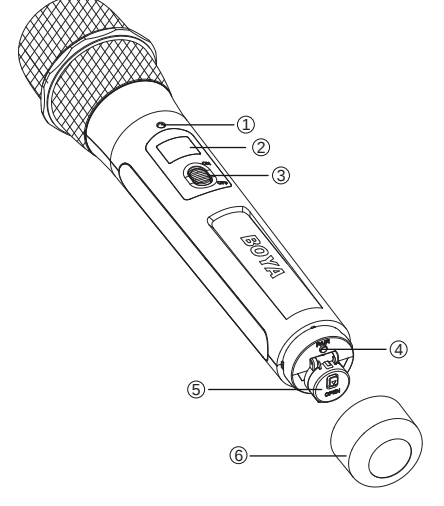


BY-WHM8 Pro
Wireless Handheld Microphone



Product Structure



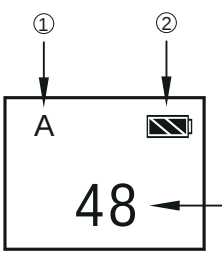
1. **Power LED**
2. **LCD screen**
3. **Power OFF/ON**

For more details, please refer to "LCD Display Operation Guide" on page 35.

4. PAIR
A. How to change Channel
1) Short press "PAIR" button, the channel number blinks.
2) Press "PAIR" button again to change channel.
3) Wait 3 seconds till channel number doesn't blink.
B. Long press "PAIR" button to change Channel "A" or "B".

5. Battery compartment
6. Battery cover

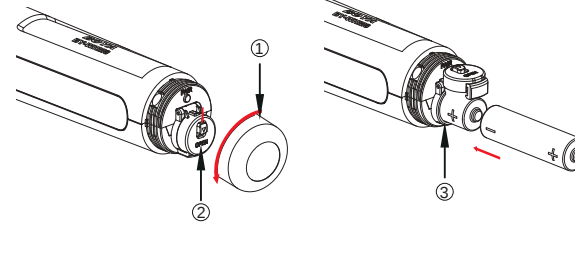
LCD Display Operation Guide



① Channel Group (A/B)
Long press "SET" button to change Channel "A" or "B".
② Channel number (1-48)
③ Battery indication

Installing Batteries

The transmitter is each powered by two AA batteries. To install batteries, please follow these steps:
1. Turn the battery cover anti-clockwise to unscrew.
2. Push the "CR20" button down.
3. Insert the batteries in the right polarity as shown.
4. Close the battery cover and tighten it by screwing clockwise until it is reasonably tight.



NOTE:
1. Please make sure the units is turned OFF, because taking out the battery compartment during signal transmission may cause high noise.
2. Please remove the batteries from the microphone when the microphone is not in use as current is drawn whenever a battery is installed.

Connecting the wireless handheld microphone and the receiver

To connect the wireless handheld microphone and the receiver, follow these steps:
1. Turn on the wireless handheld microphone and the receiver.
2. Set the wireless handheld microphone and the receiver to the same channel.
3. If you are experiencing interference or noise on one channel, try a different channel.

Important Notes

- Operating the BY-WHM8 Pro components near electrical equipment (motors, transformers, or dimmers) may cause it to be affected by electromagnetic induction.
- Keep the BY-WHM8 Pro components as far as from such equipment as possible.
- The presence of the lighting equipment may produce electrical interference over the entire frequency range. Position the BY-WHM8 Pro components so that interference is minimized.
- To avoid degradation of the signal-to-noise ratio, DO NOT use the BY-WHM8 Pro components in noisy places or in locations subject to vibration, such as the following:
 - Near electrical equipment, such as motors, transformers, or dimmers.
 - Near air condition equipment or places subject to direct air flow from an air conditioner.
 - Near public address loudspeakers.
 - Where adjacent equipment might knock against the receiver.

Cleaning

Clean the surface and the connectors of the BY-WHM8 Pro components with a dry, soft cloth. Never use thinner, benzene, alcohol or any other chemicals, since these may mar the finish.

Troubleshooting

If you have any problem using the BY-WHM8 Pro components, use the following checklist. If any problem persists, please consult our local dealer, or contact us directly.

Symptom	Meanings	Remedy
The units does not turn on	The polarity orientation of the battery is not correct. The batteries are exhausted. The battery terminals in the transmitter are dirty.	Insert the batteries with the correct polarity orientation. Replace the batteries with new ones. Clean the + and - terminals with cotton swab.
The batteries become drained quickly	Alkaline batteries are being used. The BY-WHM8 Pro components is being used under cold conditions.	Use alkaline batteries. The battery life of a alkaline battery is less than half that of an alkaline battery. Replace the batteries with new ones.
The channel cannot be changed	An attempt was made to change the channel by pressing the SET button only.	Press the SET button, then change the channel with the + and - buttons.
There is no sound	The channel setting on the transmitter is different from that on the receiver.	Use the same channel setting on both the transmitter and receiver.

The sound is weak.	The attenuation level on the transmitter is too high. The line input is selected on the transmitter.	The input level of the transmitter is low. Press the button on the transmitter to attenuate the input level. Pull the cable out from LINE IN.
There is distortion in the sound	The attenuation level on the transmitter is too low. The transmitter and the receiver are at different channels. Headphone with a non-audio mini jack is used.	Set the attenuation level on the transmitter to the appropriate level. Set the transmitter to the same channel. Turn the microphone with a 3.5mm mini jack.
The audio is noisy or distorted. This can include drop outs, white noise, bursts, pops and clicks.	RF interference	Try a different channel. Make sure both units are on the same channel. Try to position the antennas at a 90° angle to each other. There can be a lot of RF interference outdoors. Try moving stations, where there is less RF interference. 2.0 GHz may have some interference from nearby Wi-Fi and other wireless devices. RF interference from fluorescent lighting and metal frames can also cause interference. Turn off all nearby computers and mobile phones.

The audio is noisy or distorted. This can include drop outs, white noise, bursts, pops and clicks.	RF signal is weak.	Make sure there is an unobstructed line of sight between the transmitter's and the receiver's antennas. Keep in mind that your body, clothes, and storage bags are possible obstructions. If there are obstructions, you may need to move closer.
No much feedback is being picked up.	When using an omnidirectional microphone like this system, the microphone may be picking up too much feedback.	Turn down the audio input level on your camera or recording device. Lower the audio input level on the receiver. Turn down the gain on your mixer if there is no adjustment on the receiver. Adjust the microphone head of the transmitter. Keep this level as high as possible without distortion.

FCC STATEMENT:
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.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

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

Specifications:
System

Oscillator type:	PLL Synthesized Control Oscillator
Carrier Frequency Range:	566.72 MHz-576.48 MHz (Transmitter A) 576.38 MHz-586.48 MHz (Transmitter B)
Channels:	48
Frequency response:	40 Hz to 18 kHz (+/-3dB)
Operating temperature:	14°F to 122°F (10°C to +50°C)
Storage temperature:	14°F to 131°F (-10°C to +55°C)

TX8 PRO , BY-WXLR8 PRO, BY-WHM8 PRO

RF output power:	150 mW
Antenna:	1/4 wave omnidirectional
Spurious emission:	250mW or less
Audio input connector:	3.5mm jack
Reference audio input level:	-60 dBV (AEC input, 0 dB attenuation)
Reference deviation:	1.5 kHz (-60 dBV, 1 kHz input)
Input frequency range:	20Hz-20kHz
Distortion:	0.5% or less
Power supply:	Two AA size batteries
Dimensions:	TX8 PRO: 20.8 x 6.7 x 2.9 cm BY-WXLR8 PRO: 5.7 x 3.8 x 1.1 inch BY-WHM8 PRO: 5.3 x 3.2 x 0.9 inch
Weight:	TX8 PRO: 31g (without batteries) BY-WXLR8 PRO: 252g (without batteries) BY-WHM8 PRO: 252g (without batteries)

Receiver:

Antenna:	1/4 wave antenna
Audio output connector:	3.5mm jack
Signal to noise ratio:	80dB or more
Distortion:	0.5% or less
Headphone output level:	30mW (16 Ω)
Audio output level:	-60 dBV
Power supply:	Two AA size batteries
Dimensions:	208mm x 42mm x 29.5mm
Weight:	85g without batteries

Lavalier Microphone

Transducer:	Back electret Condenser
Polar pattern:	Omnidirectional
Frequency Range:	20Hz - 18 kHz
Signal Noise:	71dB SNL
Sensitivity:	-30dB +/- 3dB / 0dB-1Vrms, 1 kHz
Connector:	3.5mm locking mini plug
Length:	1.2m (4')

Frequency Chart

Transmitter A			
Channel(CH)	Frequency(MHz)	Channel(CH)	Frequency(MHz)
1	566.720	25	566.560
2	567.120	26	566.960
3	567.520	27	567.370
4	567.920	28	567.780
5	568.320	29	568.190
6	568.760	30	568.600
7	569.170	31	569.010
8	569.580	32	569.420
9	569.990	33	569.830
10	569.400	34	570.240
11	569.810	35	570.650
12	561.220	36	571.060
13	561.630	37	571.470
14	562.040	38	571.880
15	562.450	39	572.290
16	562.860	40	572.700
17	563.270	41	573.110
18	563.680	42	573.520
19	564.090	43	573.930
20	564.500	44	574.340
21	564.910	45	574.750
22	565.320	46	575.160
23	565.730	47	575.570
24	566.140	48	575.980

Transmitter B

Channel(CH)	Frequency(MHz)	Channel(CH)	Frequency(MHz)
1	576.390	25	586.230
2	576.800	26	586.640
3	577.210	27	587.050
4	577.620	28	587.460
5	578.030	29	587.870
6	578.440	30	588.280
7	578.850	31	588.690
8	579.260	32	589.100
9	579.670	33	589.510
10	580.080	34	589.920
11	580.490	35	590.330
12	580.900	36	590.740
13	581.310	37	591.150
14	581.720	38	591.560
15	582.130	39	591.970
16	582.540	40	592.380
17	582.950	41	592.790
18	583.360	42	593.200
19	583.770	43	593.610
20	584.180	44	594.020
21	584.590	45	594.430
22	585.000	46	594.840
23	585.410	47	595.250
24	585.820	48	595.660

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