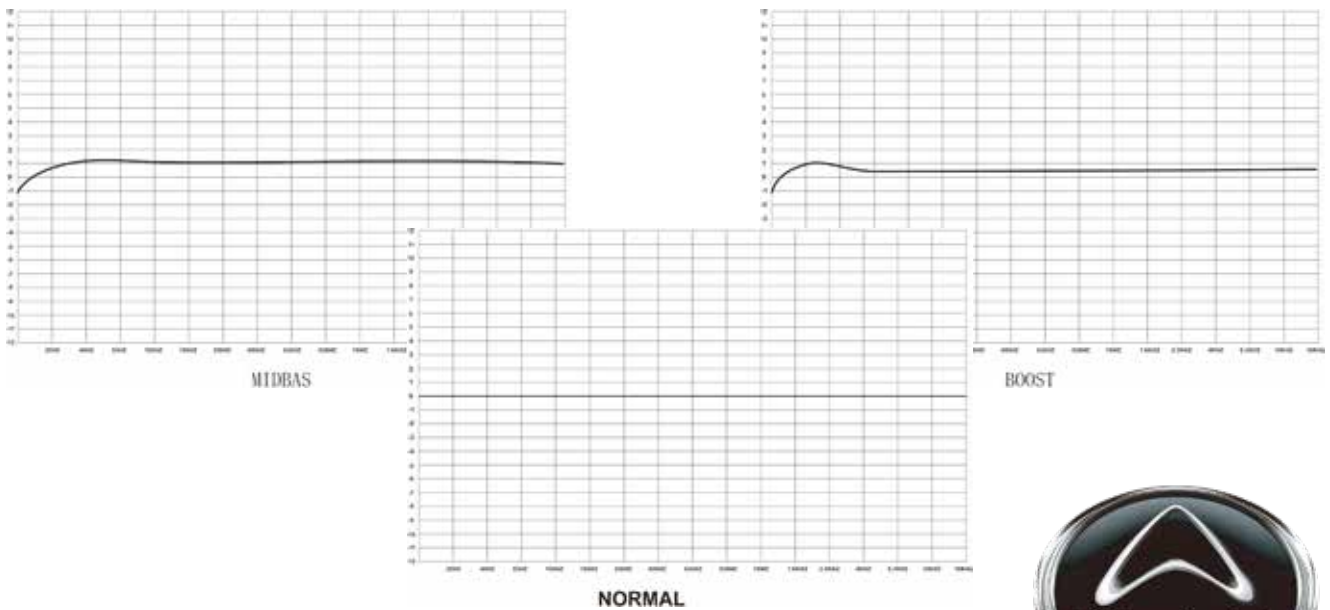
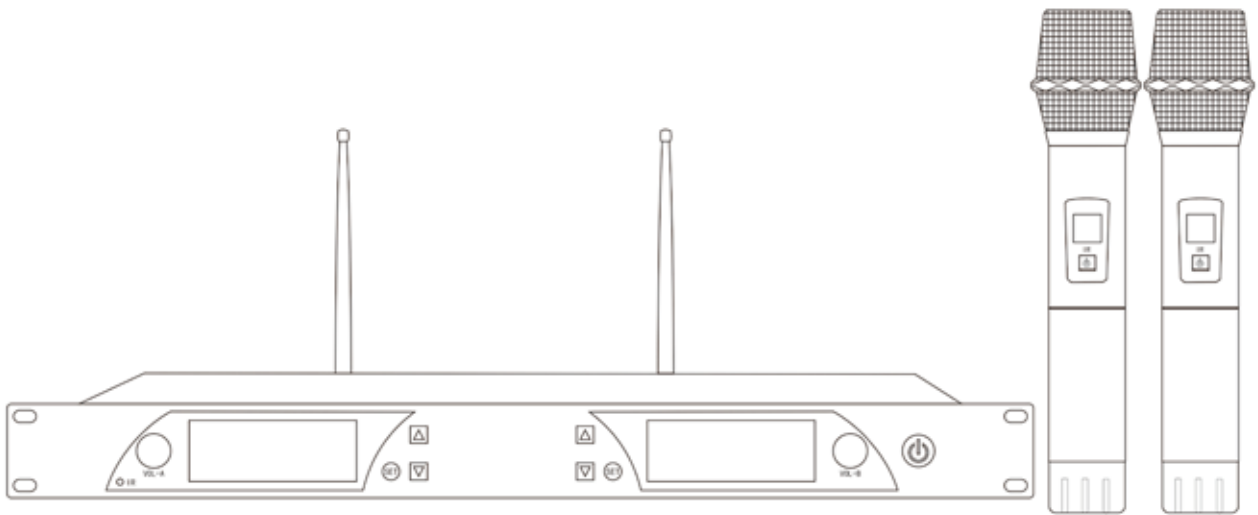


# WF-300

Wireless Microphone System  
with internal EQ



# USER MANUAL



# ***CONTENTS***

WARNINGS .....	1
INTRODUCTION / FEATURES .....	2
OPERATIONAL ADVICE .....	3
SYNCHRONIZING FREQUENCIES	
LOCK / UNLOCK	
DUAL CHANNEL RECEIVER FEATURES .....	4
TRANSMITTER / MICROPHONE FEATURES	
EQ MODES .....	5
GETTING THE BEST FROM THE SYSTEM	
SPECIFICATIONS .....	6

# IMPORTANT WARNINGS & SAFETY INSTRUCTIONS



- Read these instructions
- Follow these instructions
- Keep these instructions for future reference
- Heed all warnings
- Do not use this system near moisture or water
- Clean only with a dry cloth
- Install in accordance with these Wharfedale Pro operating instructions
- Follow the manufacturer's operating instructions for all peripheral devices such as amplifiers and processors
- Do not install near heat sources such as radiators, heat registers, stoves or any other apparatus that produces heat (for example lighting systems and amplifiers)
- Use only accessories specified or supplied by Wharfedale Pro
- Use caution with placement and operation of this product. Permanent hearing damage can be caused by prolonged exposure to excessive sound pressure levels
- Refer all servicing to qualified professionals. Servicing is required when the product has been damaged in any way, such as impact damage, liquid ingress or foreign object damage. In addition the product should be referred to qualified service personnel if there is any kind of malfunction.

# INTRODUCTION

The WF-300 Wireless Microphone system brings together advanced digital signal transmission technologies with the highest quality audio components to create a wireless mic system that is both simple to use and delivers great quality audio - over a long range!

The two most important features of any wireless mic system have been addressed during its development.

## 1 - Range

WF-300 range is over 100m

## 2 - Audio quality

WF-300 features 5 specially tuned EQ settings embedded inside its microphones. These allow the user to adjust the EQ curve of the mics to suit the character of their voice. This makes using the WF-300 a pleasure and helps the performer feel 'comfortable' with their sound.

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The physical construction of WF-300 is also second-to-none. The 19" brushed steel receiver looks great in any rack and features large, backlit LCD's allowing the user to monitor the system, even at a distance. The microphones themselves are made from robust alloy with a dent-resistant spring-steel grille. The LCD display inside the mic also helps the user to monitor the battery level and channel selections.

## Features

Long range transmission >100meters

5 switchable EQ modes to help the performer feel 'comfortable'.

Large LCD displays

Easy Receiver (rack) to Transmitter (mic) IR syncing

Gyroscopically controlled microphone AUTOMUTE function

High quality signal paths

# OPERATIONAL ADVICE

First - Turn down and turn off any external devices (amplifiers / active loudspeakers etc) which you will be connecting the WF-300 audio output cables to. Then, with all power switched off, make the appropriate audio connections from the WF-300 to your amplification system.

Insert the batteries into the WF-300 microphones.

With all volumes set to a minimum, turn ON the power of the WF-300 and then turn on your connected audio system.

Now adjust the volume of the receiver (rack) to the middle, then turn on the microphones. Talk directly into the microphone, then adjust the volume as required.

If you encounter any problems, please consult professional technicians or contact your dealer.

After use, turn down and turn off the power of your audio system. Then off the power of the WF-300 transmitter (mic) & receiver (rack).

Note -

The angle and tilt of the rack antennae directly affects the reception of the receiver, so pay attention to the receiver placement and antennae angles. The most important principle is to keep the distance short between the microphone and the receiver.

Avoid placing the receiver near any computer or equipment that can produce RF signals.

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# SYNCHRONIZING FREQUENCIES

On the front panel of the receiver (rack) select the channel you wish to use by pressing the ▲ or ▼ arrow on the respective channel.

After selecting the channel, press the "SET" button.

The LCD will display F - - - - -

Now place the microphone you wish to synchronize with near to the IR sensor on the front of the WF-300 rack. The LCD of the microphone should face the rack.

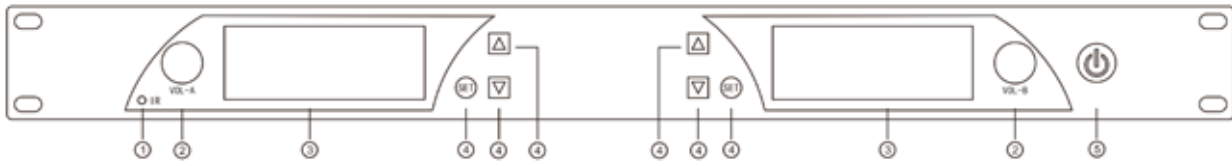
Now check the LCD display of the microphone, the channel should be same channel with the receiver. Then it is ready to use.

# LOCK / UNLOCK

To avoid accidental changes being made to the system it is possible to LOCK channels. To enable LOCK mode press the ▲ and the ▼ keys together. To UNLOCK repeat this operation.

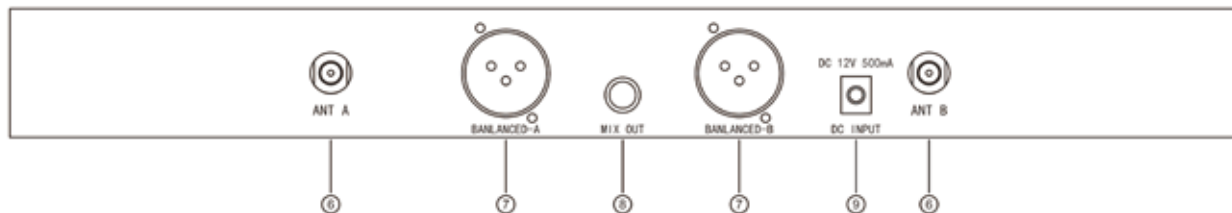
# DUAL CHANNEL RECEIVER FEATURES

## FRONT PANEL



- 1 - Infrared IR window: To transmit infrared signal to the transmitter (microphone).
- 2 - Volume
- 3 - LCD display: Channel, mute, frequency, radio frequency, etc.
- 4 - Three function keys used for synchronizing frequencies between the mic and receiver.
- 5 - Power Switch: Press for 3 seconds to turn ON or OFF the unit.

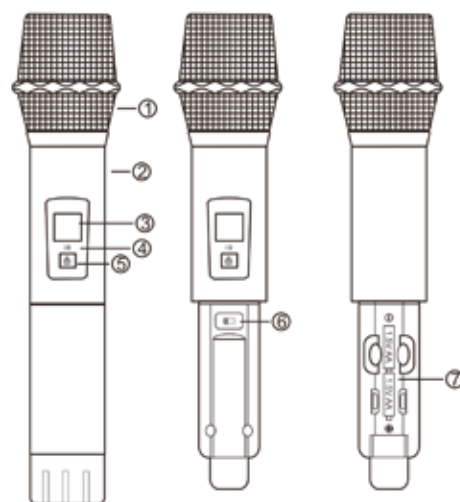
## REAR PANEL



- 6 - Antenna connectors. Always use with antennae connected.
- 7 - Balanced XLR outputs: For individual high quality channel outputs. Balanced for longer cable distances.
- 8 - 6.35mm audio mix output delivers both channel outputs through one cable.
- 9 - Power socket: AC220-240v, 50/60Hz DC 12v 500mA power adaptor input socket.

# TRANSMITTER / MICROPHONE FEATURES

- 1 - Sound capsule protected by steel mesh grille
  - 2 - Mic body with built in antenna.
  - 3 - LCD to show channel and battery status.
  - 4 - Infrared window: Press "SET" key from the receiver to SYNC frequency & channel to the mic.
  - 5 - On - Off switch: Press and hold for 2 seconds to turn the mic ON & OFF.
  - 6 - EQ Selection Button: Unscrew the tail pipe of the microphone and press the button to cycle through the 5 EQ curves.
- Note - The microphone features a gyroscope which senses movement. This means the microphone will mute itself after being left for 5 seconds and then will unmute automatically when picked up. When the mic is automuted the display will show "-----"

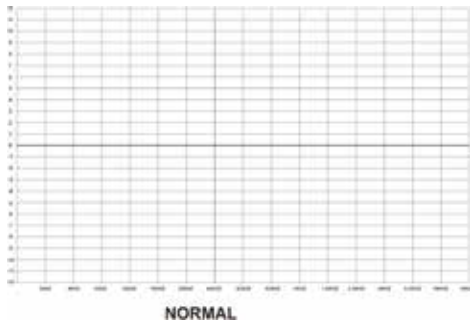


- To turn this feature ON or OFF hold the EQ selection button for 2 seconds until it says ("AG ON" or "AG OFF")
- 7 - Battery compartment : 2 x 1.5V alkaline batteries (Please remove the batteries when not in use for longer periods)

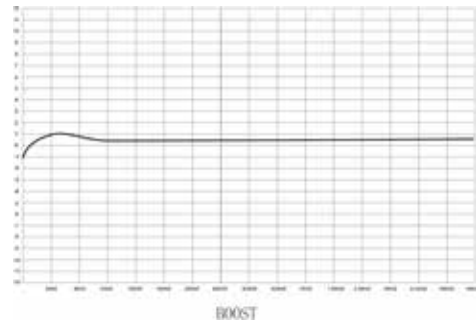
# EQ MODES

Inside the microphone are 5 unique EQ settings. These settings will suit many different types of voice character. Choosing the most suitable EQ mode will help the performer feel more 'comfortable' with their performance. Which one is best? You decide!

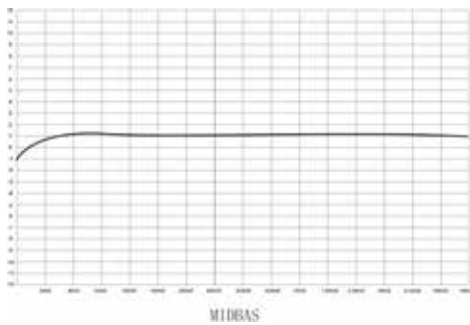
EQ 1 Mode - Normal



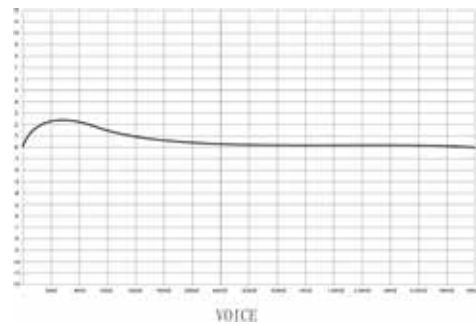
EQ 2 Mode - Boost



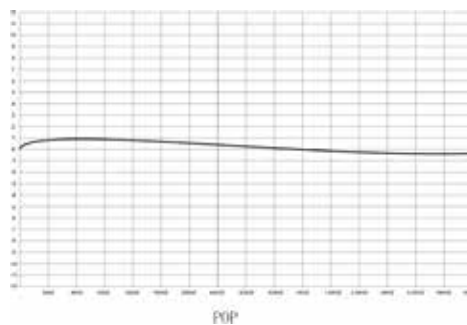
EQ 3 Mode - MID BAS



EQ 4 Mode - Voice



EQ 5 Mode - Pop



## GETTING THE BEST FROM THE SYSTEM

- 1- For best range, always maintain a line of sight between the mic and the receiver. Avoid metals or walls between the devices.
- 2 - Always use the supplied antennas.
- 3 - Always use good quality batteries and replace regularly. (Please note the batteries supplied with this device are for testing purposes only and should not be used in professional performance)

# SPECIFICATIONS

<b>System</b>	<b>WF-300</b>
Working frequency	600-690MHz or 863-865MHz Model Dependant
Modulation mode	broadband FM
Channels	600-690MHz model : 2 channels x 100 frequencies 863-865MHz model : 2 channels x 4 frequencies
Channel frequency	450K(600-690MHz),250K(863-865MHz)
Frequency stability	0.005%
Dynamic bound	100dB
Maximum excursion	45KHz
Frequency response	60Hz-18KHz (3dB)
S/N	>105dB
T.H.D	0.5%
Operation distance	about 100m (no interruption)
Working environment temperature	-10 C --+50 C
<b>Receiver / Rack</b>	
IF	110MHz, 10.7MHz
Antenna receiver	BNC/50
Sensitivity	12dBuV(80dB S/N)
Sensitivity adjustable range	12-32dBuV
Erratic control	75dB
Maximum output level	+10 dBv
<b>Transmitter / Mic</b>	
Type	2 x dynamic handheld
Antenna	Integrated
EQ Modes	5 presets
RF output	10mW~30mW
Maximum Deviation	± 25KHz
Battery	2pcs of 1.5v AA per mic
Battery Life	6~8 hours









### **WHARFEDALE PRO LIMITED WARRANTY**

Wharfedale Pro products are warranted of manufacturing or material defects for a period of three years from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Pro dealer or distributor for information.

Please be aware that the warranty details may differ from country to country. Contact your dealer or distributor for information (available at [www.wharfedalepro.com](http://www.wharfedalepro.com)). These terms do not infringe your statutory rights.



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