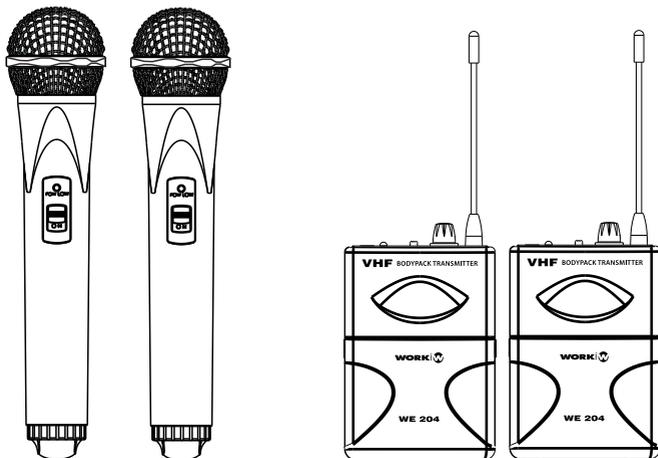


WORK[®] PRO **W**



WR 204/1

WR 204/2

User Manual / Manual de Uso

1. BRIEF INTRODUCTION

THIS WIRELESS MICROPHONE SYSTEM HAS ADOPTED THE FULLY INTEGRATED SOLUTION SINGLE CHIP, INTEGRATED MICROPHONE AMPLIFIER, AUDIO BASED ON DSP PROCESSOR, PLL FREQUENCY SYNTHESIZER ETC. MODULE PCB. THE FM MODULATION TECHNIQUE PRESET GOOD RF & AF SPECIFICATION.

2. MAIN FEATURE

- SMT TECHNOLOGY.
- DESIGND FOR KTV, CLASS ROOM AND OTHER STAGE USE.
- UNI-DIRECTIONAL CARDIOID DYNAMIC MICROPHONE, CLEAR AND BRIGHT SOUND.
- SPECIAL EXPANDED COMPRESSION CIRCUIT GREATLY IMPROVE THE S/N RATIO.
- HIGH EFFICIENCY BATTERIES CONSUMPTION DESIGN, THE MICROPHONE CAN CONTINUOUSLY USE FOR MORE HOURS.
- MULTIPLE NOISE CONTROL CIRCUIT, REFUSE TO EXTERNAL DISTURBANCE AND THE OPENING S/Q SYSTEM.

CAUTIONS:

Avoid putting the receiver in a blind angle to make sure the signal receiving in good condition

Please don't throw, fall, flap, toss while it is working in case of damages.

The machine is not waterproof, you must avoid dropping it into water or suffering rains.

Please keep the machine from direct sunshine and put it in a place as far as possible from the magnetic field.

Please insert the battery with the right polarity, and must take out the battery out of the transmitter if not use for time in case of leaking.

Pull out the AC adapter after using the receiver.

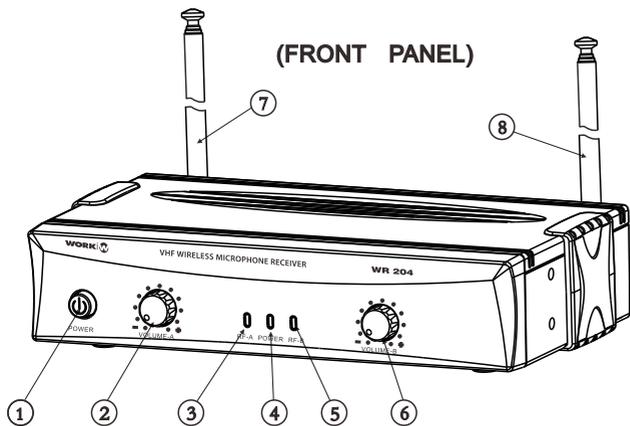
When replace a battery, please turn off the transmitter first.

Don't open it by yourself, may the high voltage will hurt you.

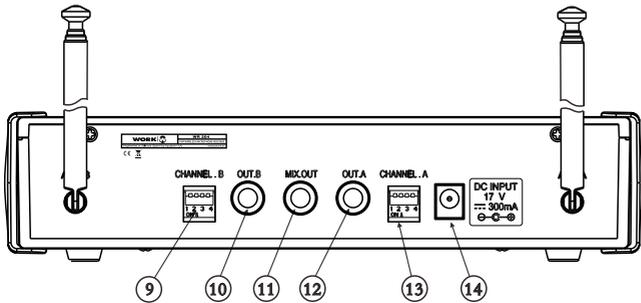
There is no refit component exists, please do not open the receiver, or you will lose the right of repairing.

Use the soft cloth to clean the machine, when something hard to clean, you can use the neutral scour, but must not use the volatized gasoline or thinner.

3. RECEIVER

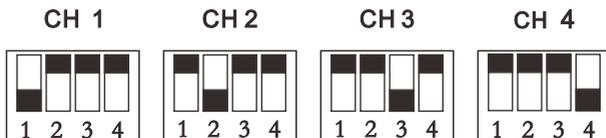


- 1.POWER
- 2.VOLUME-A
- 3.RF-A
- 4.POWER
- 5.RF-B
- 6.VOLUME-B
- 7.ANT-A
- 8.ANT-B



- 9.CHANNEL.B
- 10.OUT.B
- 11.MIX.OUT
- 12.OUT.A
- 13.CHANNEL.A
- 14. DC INPUT

THIS IS 4CH RECEIVER PRODUCTS. YOU MAY REACH 4 CHANNELS COMBINATIONS AS BELOW BY MOVING THE CHANNEL CODING SWITCH:



ATTENTION: ANY OTHER CHANNELS COMBINATIONS ARE NOT GUARANTEED BESIDE THE ABOVE 4 CHANNELS.

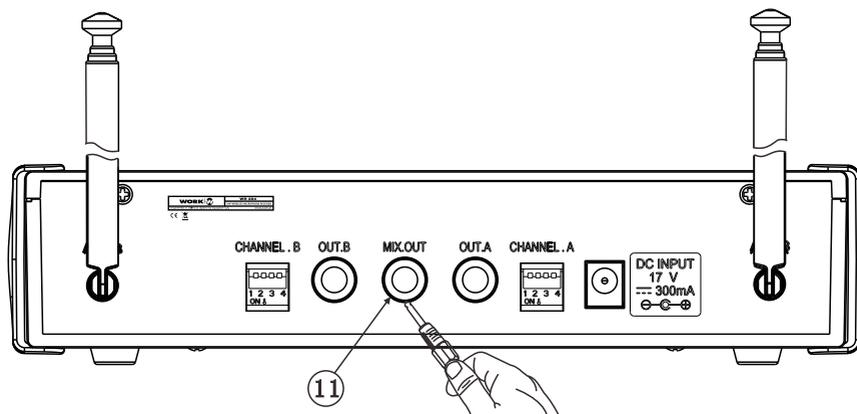
4. RECEIVER OPERATION

- CONNECTION OF POWER:

USED THE ATTACH ADAPTOR TO CONNECT ADAPTOR OUTPUT JACK(14)

- AUDIO OUTPUT CONNECTION:

MIX OUTPUT: INSERT "OUTPUT"(11), AND THE OTHER SIDE TO CONNECT MIX AUDIO OR AMPLIFIER "MIX IN" OR"AUX IN"

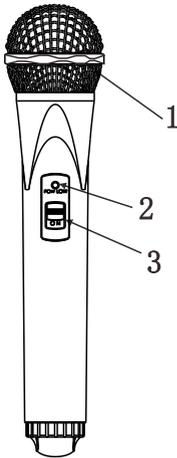


- PRESS POWER ON/OFF(1), INDICATOR (4) WILL LIGHT, IT MEANS RECEIVER IS UNDER NORMAL WORKING STATUS.

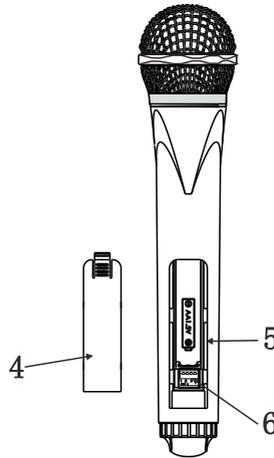
WARM TIPS:

PLEASE TURN DOWN VOLUME CONTROL SWITCH(2)&(6) TO THE MIN BEFORE TURNING THE POWER, AND ADJUST VOLUME CONTROL AFTER THE RECEIVER IS WORKING PROPERLY.

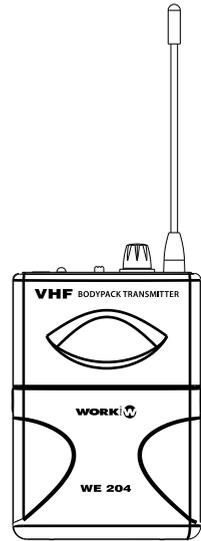
5. HANDHELD MICROPHONE



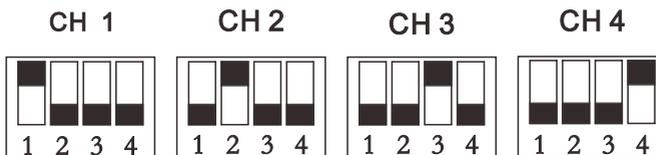
(FRONT)



(REAR)



- 1 GRILL: INTERNAL ACOUSTIC COMPONENTS. PLEASE DON'T OPEN IT WHEN USING.
- 2 INDICATOR: THE INDICATOR LIGHT WONT LIGHT WHEN THE BATTERY POWER IS FULLWHILE IT WILL FLASHES WHEN THE POWER IS LOW.
- 3 ON/OFF SWITCH:
- 4 BATTERY COVER.
- 5 BATTERY SINK: INSERT 2X1.5VAA BATTERIES, (ATTENTION ON THE RIGHT POLARITY).
- 6 DIP SWITCH: IN ORDER TO WORK PROPERLY, PLEASE CORRESPOND WITH THE CHANNELS COMBINATIONS OF RECEIVER (9)&(13)AS SHOW BELOW.



6. TECHNIQUE SPECIFICATION

- **COMPREHENSIVE PERFORMANCE**

CARRIER FREQUENCY: VHF170-270MHz
FREQUENCY STABILITY: <±30ppm
DYNAMIC RANGE: >90dB
HARMONIC DSTORTION: <0.4%
AUDIO OUTPUT: 400mV
FREQUENCY RESPONSE: 40Hz~15KHz ±3dB

- **RECEIVER**

POWER ADAPTOR VOLTAGE: DC 17V 300mA
POWER CONSUMPTION: <3W
S/N RATIO: >95dB
AJACENT WORD INTERFERENCE THAN: >80dB
FAKE INTERFERENCE THAN: >80dB
RECEIVING SENSITIVITY: >7dBu(SINAD=30dB)
DE-EMPHASIS: 50uS

- **HANDHOLD MIC**

TRANSMITTER POWER: 30mW
MODULATION TYPE: FM
MAX DEVIATION: ±20KHz
SPURIOUS EMISSION: <50dB(WITH CARRIER)
BATTERY VOLTAGE: 2X1.5V AA BATTERIES
CONTINUOUS USING: 5 HOURS

1. INTRODUCCION

ESTE SISTEMA INALAMBRICO APORTA UNA SOLUCION INTEGRADA EN UN SOLO CHIP, AMPLIFICACION DE MICROFONIA, AUDIO BASADO EN PROCESADO DSP, SINTONIZADOR DE FRECUENCIA PLL, ETC. LA MODULACION FM PERMITE OBTENER UN ALTO RENDIMIENTO EN RF y AF.

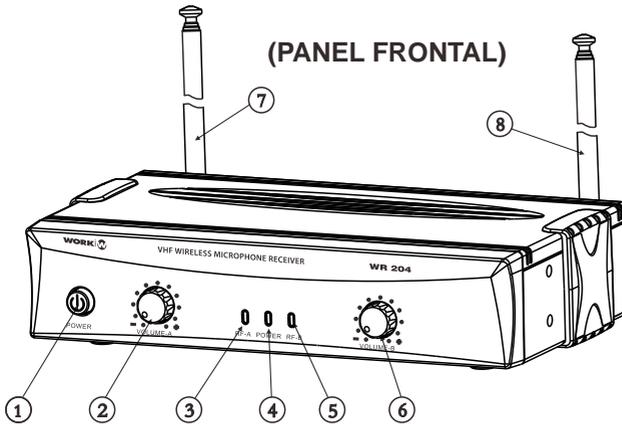
2. CARACTERISTICAS PRINCIPALES

- **TECNOLOGIA SMT**
- **DISEÑO PARA ESCENARIOS, AULAS, SALAS, ETC**
- **MICROFONO DINAMICO CARDIOIDE UNIDIRECCIONAL PARA UN SONIDO CLARO Y BRILLANTE**
- **CIRCUITERIA DE COMPRESION PARA LOGRAR UNA EXCELENTE RELACION SEÑAL/RUIDO**
- **DISEÑO PARA UN CONSUMO DE ALTA EFICACIA DE LAS PILAS. EL MICROFONO PUEDE FUNCIONAR CONTINUAMENTE MAS TIEMPO**
- **CIRCUITO DE CONTROL DE RUIDO. RECHAZANDO LAS INTERFERENCIAS EXTERNAS**

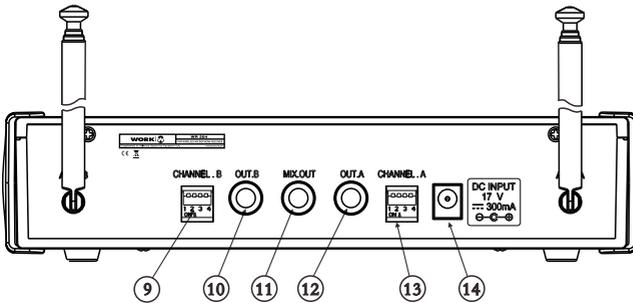
CAUTIONS:

- Evite colocar el receptor en un ángulo ciego para asegurar la correcta recepción de la señal.
- Por favor, no lance ni golpee el micrófono para evitar que se dañe.
- La unidad no es resistente al agua, evite que se derrame agua en la unidad o se moje con la lluvia.
- Mantenga la unidad lejos de la luz solar directa y colóquela apartada de campos magnéticos.
- Inserte las pilas con la polaridad correcta. Retire las pilas si la unidad va a estar un tiempo sin usarse.
- Desconecte el alimentador externo después de usar del receptor.
- Cuando sustituya las pilas, apague el emisor previamente.
- No abra o repare la unidad usted mismo. Contacte con su distribuidor.
- Use un paño seco para limpiar la unidad. No utilice productos volátiles o alcohol.

3. RECEPTOR

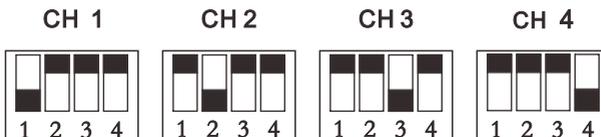


- 1. INTERRUPTOR
- 2. VOLUMEN (A)
- 3. RF (A)
- 4. LED POWER
- 5. RF (B)
- 6. VOLUMEN (B)
- 7. ANTENA (A)
- 8. ANTENA (B)
- 9. CANAL (B)
- 10. SALIDA (B)
- 11. SALIDA MIX
- 12. SALIDA (A)
- 13. CANAL (A)
- 14. ALIMENT. DC



(PANEL TRASERO)

ESTE RECEPTOR PERMITE SELECCIONAR 4 FRECUENCIAS DIFERENTES EN CADA UNO SUS DOS CANALES UTILIZANDO LA COMBINACION DE DIP-SWITCH MOSTRADA ABAJO.



ATENCION: CUALQUIER OTRA COMBINACION IMPEDIRA EL FUNCIONAMIENTO DE LA UNIDAD

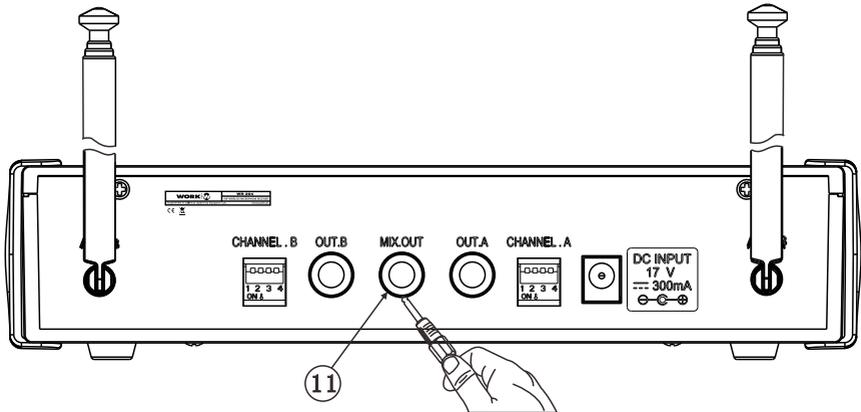
4. FUNCIONAMIENTO DEL RECEPTOR

- **CONECTE LA ALIMENTACION:**

USE EL ADPATADO INCLUIDO EN LA TOMA (14)

- **CONEXION DE SALIDA AUDIO:**

SALIDA MIX/ OUT A-B: INSERTE UN CABLE DE AUDIO DESDE ESTA TOMA (11), A UN MEZCLADOR DE AUDIO O AMPLIFICADOR (MIX IN o AUX IN)

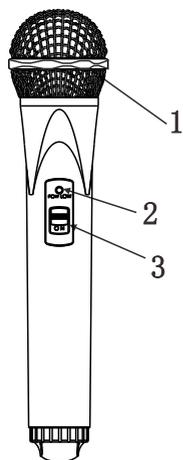


- **PRESIONE EL INTERRUPTOR (1), EL INDICADOR (4) SE ILUMINARA. ESTO SIGNIFICA QUE EL RECEPTOR OPERA DE MANERA CORRECTA.**

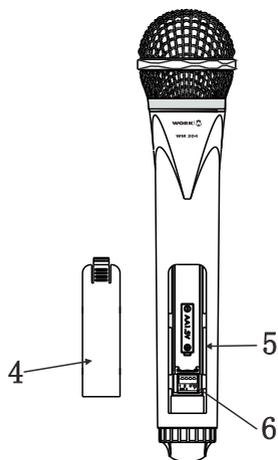
NOTA:

POR FAVOR, REDUZCA EL VOLUMEN CON LOS CONTROLES (2) Y (6) REDUZCALO AL MINIMO ANTES DE ENCENDER Y AJUSTE ENTONCES EL VOLUMEN

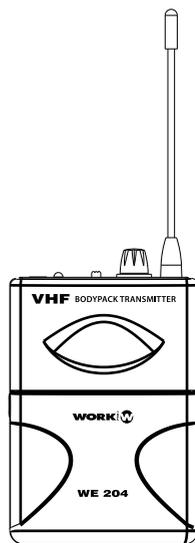
5. MICROFONO DE MANO



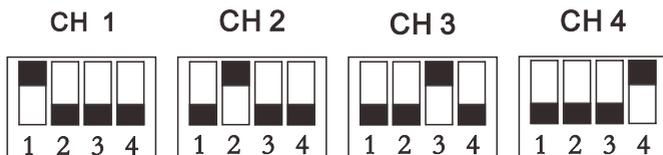
(FRONTAL)



(TRASERA)



1. REJILLA: COMPONENTES ACUSTICOS INTERNOS
POR FAVOR, NO LA quite CUENDO USE EL MICROFONO
2. INDICADOR: EL INDICADOR SE ILUMINA CUANDO NO HAY BATERIA Y PAPADEA CUANDO EL NIVEL ES BAJO
3. INTERRUPTOR ON/OFF
4. CUBIERTA DE LA PUILA
5. RECEPTACULA DE LA PILA: INSERTE 2X PILAS DE 1.5v AA (ATENCIÓN!, RESPETE LA POLARIDAD)
6. DIP SWITCH: PARA UN CORRECTO FUNCIONAMIENTO, SELECCIONE EL MISMO VALOR QUE EL MARCADO CON LOOS DIP DISTUADOS EN EL RECEPTOR (9) Y (13).



6. ESPECIFICACIONES TECNICAS

- GENERAL

FRECUENCIA PORTADORA:	VHF 170-270 MHz
ESTABILIDAD DE LA FRECUENCIA:	< +/- 30 ppm
RANGO DINAMICO:	> 90 dB
DISTORSION ARMONICA:	<0.4%
SALIDA DE AUDIO:	400 mV
RESPUESTA EN FRECUENCIA:	40 Hz - 15 kHz +/- 3dB

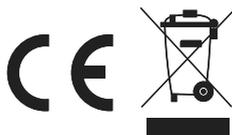
- RECEPTOR

ALIMENTACION:	DC 17V 300 mA
CONSUMO:	<3W
RELACION S/N:	>95 dB
INTERFERENCIAS FREC. ADYACENTES:	>80 dB
RECHAZO FREC. ESPUREAS:	>80 dB
SENSIBILIDAD:	> 7 dBu (SINAD=30dB)
DE-ENFASIS:	50 uS

- MICROFONO DE MANO

POTENCIA DE TRANSMISION:	30mW
TIPO DE MODULACION:	FM
MAX. DESVIACION:	+/- 20 kHz
EMISION ESPUREAS:	<50 dB (CON PORTADORA)
ALIMENTACION:	2X 1.5V AA
USO CONTINUADO:	5 HORAS

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



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