

# KAM KWM1935 & KWM1940

## UHF WIRELESS MICROPHONE KITS

Kam KWM radio mics are ideal for the stage bound vocal performer who needs freedom to roam with a quality of sound you'll find hard to beat for the price. The KWM1935 & KWM1940 use 16 UHF channels which comply with all DTI regulations and do not require a user license. The systems are also 'True Diversity' which means they have a PLL synthesized, automated frequency switching system that reduces signal dropouts. The transmitters also feature low voltage circuitry to help extend battery life and to increase sensitivity. Sonic performance is enhanced by a built in compressor/limiter and high quality microphone capsules.

### KWM1935 - FRONT PANEL

- 1 POWER SWITCH
- 2 CHANNEL SELECTOR PANEL (see below for channel selection instructions)
- 3 POWER STATUS LED
- 4 RF SIGNAL INDICATOR LED - lights when the receiver is receiving a signal from the transmitter.
- 5 VOLUME CONTROL
- 6 ANTENNA

### KWM1935 - REAR PANEL

- 7 POWER INLET
- 8 SQUELCH SENSITIVITY ADJUST. The squelch circuit automatically mutes the audio signal if momentary signal loss occurs.
- 9 UNBALANCED AUDIO OUTPUT
- 10 BALANCED XLR AUDIO OUTPUT

### KWM1940 - FRONT PANEL

- 11 POWER SWITCH
- 12 CHANNEL SELECTOR PANEL (see below for channel selection instructions)
- 13 POWER STATUS LED
- 14 CHANNEL A RF SIGNAL INDICATOR LED - lights when the receiver is receiving a signal from the transmitter.
- 15 CHANNEL B RF SIGNAL INDICATOR LED - lights when the receiver is receiving a signal from the transmitter.
- 16 MIC A VOLUME CONTROL
- 17 MIC B VOLUME CONTROL
- 18 ANTENNA

### KWM1940 - REAR PANEL

- 19 POWER INLET
- 20 CHANNEL A SQUELCH SENSITIVITY ADJUST. The squelch circuit automatically mutes the audio signal if momentary signal loss occurs.
- 21 CHANNEL B SQUELCH SENSITIVITY ADJUST.
- 22 UNBALANCED COMBINED AUDIO OUTPUT - outputs the combined audio signal from both microphones.
- 23 CHANNEL A BALANCED XLR AUDIO OUTPUT.
- 24 CHANNEL B BALANCED XLR AUDIO OUTPUT.

### MICROPHONE TRANSMITTER(S)

- 25 POWER ON / OFF / STANDBY SWITCH
- 26 LOW BATTERY INDICATOR LED - when continuously lit you have approximately one hour left of useful operation. Ideally change the battery when lit.
- 27 BATTERY COVER & AAA ALKALINE BATTERIES - provide power to the microphone transmitter. Typical battery life is 20 hours.  
**IMPORTANT:** Use Alkaline batteries only. Carbon-Zinc and Zinc-Chloride batteries will not provide adequate power and are not recommended.
- 28 CHANNEL SELECT SWITCH PANEL - remove this cover to access the channel selection DIP switches (see below for channel selection instructions).

### USING THE KWM1935 WIRELESS RECEIVER

1. Connect output to your mixer/amplifier, using either a balanced XLR cable or an unbalanced, single conductor 1/4 inch jack plug cable.
2. Connect the AC adapter to the receiver and plug into an appropriate power outlet.

### USING THE KWM1940 WIRELESS RECEIVER

1. Connect outputs for channel A & B to your mixer/amplifier, either two balanced XLR cables for dual output or a single unbalanced 1/4 inch jack plug cable for mixed output of both channels.
2. Connect the AC adapter to the receiver and plug into an appropriate power outlet.

### USING THE WIRELESS MICROPHONE TRANSMITTER(S)

1. Slide the mic ON/OFF/STANDBY switch to the ON position.
2. Check the signal indicator is lit on your receiver to see if the radio signal is being received.
3. If the signal indicator is lit, begin singing or speaking.
4. During the performance, slide the ON/OFF/STANDBY switch to the STANDBY position when the mic is not being used.
5. When the performance is over, slide the ON/OFF/STANDBY switch to the OFF position to conserve battery power.

### SETTING THE FREQUENCY SELECTION SYSTEM

It is important to ensure that the transmitter(s) and receiver are set to operate using the same basic frequency. There are 16 channels available and each channel has a specific frequency factory assigned to it. Both the KWM1935 & KWM1940 use the same 16 frequencies. The table below shows the 16 different channels, the frequencies assigned to those channels and the various DIP switch settings used to choose a particular channel.

### SET THE TRANSMITTER CHANNEL

1. Open the channel select switch panel.
2. Choose a channel you wish to use.
3. Set the DIP switch according to the CHANNEL/FREQUENCY TABLE.

When using the KWM1940 you will need to choose and set different channels for each transmitter when using both microphones.

### SET THE RECEIVER CHANNEL

#### KWM1935

1. Open the channel select switch panel.
2. Choose a channel you wish to use.
3. Set the DIP switch according to the CHANNEL/FREQUENCY TABLE.

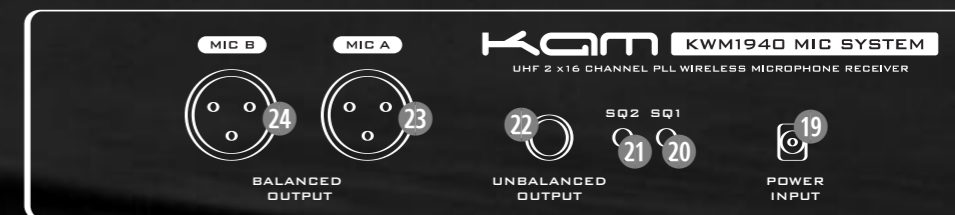
#### KWM1940

1. Open the channel select switch panel.
2. Choose the channels you wish to use.
3. Set the DIP switches for channels A & B according to the CHANNEL/FREQUENCY TABLE.

## KWM1935 PANELS



## KWM1940 PANELS



## CHANNEL / FREQUENCY TABLE

| CHANNEL 1  | CHANNEL 2  | CHANNEL 3  | CHANNEL 4  | CHANNEL 5  | CHANNEL 6  | CHANNEL 7  | CHANNEL 8  |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 863.00 MHz | 863.40 MHz | 863.80 MHz | 864.20 MHz | 864.60 MHz | 863.20 MHz | 863.60 MHz | 864.00 MHz |
|            |            |            |            |            |            |            |            |
| 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    |
| CHANNEL 9  | CHANNEL 10 | CHANNEL 11 | CHANNEL 12 | CHANNEL 13 | CHANNEL 14 | CHANNEL 15 | CHANNEL 16 |
| 864.40 MHz | 864.80 MHz | 863.10 MHz | 863.30 MHz | 863.50 MHz | 863.70 MHz | 864.90 MHz | 865.00 MHz |
|            |            |            |            |            |            |            |            |
| 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    | 1 2 3 4    |

**NOTE - when using two microphones with the KWM1940 it is important to select two frequencies which are more than 0.5MHz apart to avoid interference between the two transmitters.**

# INSTRUCTION MANUAL

## SPECIFICATIONS

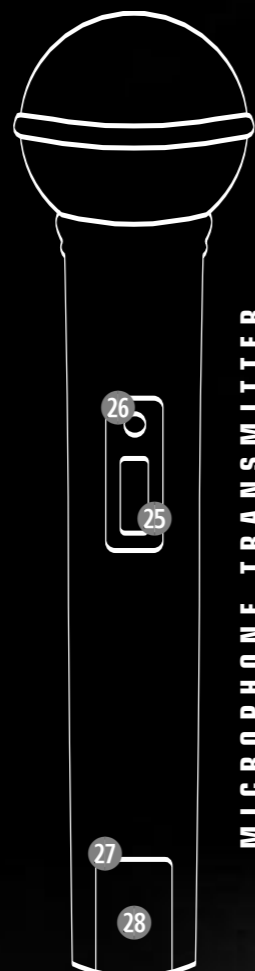
|                                |                   |
|--------------------------------|-------------------|
| <b>Carrier Frequencies</b>     | UHF 863 - 865 MHz |
| <b>Frequency Stabilization</b> | < +/-30ppm        |
| <b>Dynamic Range</b>           | >90dB             |
| <b>Harmonic Distortion</b>     | <0.5%             |
| <b>Frequency Response</b>      | 40Hz~15KHz +/-3dB |
| <b>Receiver Power</b>          | DC15V             |
| <b>Transmitter Power</b>       | 8.5mV             |
| <b>Battery Voltage</b>         | 3V                |
| <b>Continuous Usage</b>        | 6 hours           |
| <b>S/N Ratio</b>               | >90dB             |

Due to continuous product development, specifications are subject to change.

If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

www.kam.co.uk

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MICROPHONE TRANSMITTER