FCC ID NRK TX 2020
NRK DX 2020

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USER INSTRUCTIONS FOR THE RMS2020 RADIO MICROPHONE SYSTEM

TX2020 CE Certificate No.13148

TX2020

1) **On/Off Switch**
Slide the switch up to turn the unit on. Slide it down to turn the unit off.
The 6 pin lemo plug of the microphone has a separate internal connection that enables the unit to be turned on and off simply by inserting or removing the plug, therefore the on/off switch can be left permanently on if desired.

2) **Frequency Select Switch**
Switch off the unit. Slide the two position F1/F2 switch up or down to select either of the frequency banks. The individual frequencies in the bank are selected by using a small screwdriver to position the frequency select multi-way switch to one of sixteen positions. The multi-way switch is accessed from the battery compartment after removal of the battery tray. Once the frequency selection has been made, switch the transmitter on to enable the frequency selected.

3) **LF Cut Switch**
With the switch in the up position, the unit gives approximately 6dB LF cut at 50Hz.

4) **Microphone Gain Control**
The rotary microphone gain control provides eight switched positions of gain when used with standard microphones. Each position changes the audio gain by approximately 4dB giving about 30dB of adjustment.In position 8 and 9, the input impedance is automatically dropped to 600 ohm and the gain adjusted to accommodate line level input.

5) **Input Connector**
A six pin lemo connector provides input for microphone or line levels. The majority of electret microphones available on the market can be used with the TX2020 transmitter

6) **Overload Limiter LED Indicator**
A single red LED (visible through the top panel) will light when the low distortion overload limiter is operating. The gain should be set so that the limiter does not operate (suggested setting 5). In practice, it is unlikely to operate unless maximum gain is selected in a very noisy environment.

7) **Antennae**
A standard SMA connector is used for the antenna. This is a very high quality microwave connector which ensures excellent performance up to the highest frequencies.
(Optional plugs for cable connection are also available which allow the use of remote antennae "where license conditions permit").

8) **Battery Access**
Remove the battery tray by squeezing in the side buttons to release the locking mechanism. Use only a 6LR6 type alkaline battery and insert as indicated on the inside of the tray. Do not use force.
The transmitter is fitted with an electronic resetable fuse to prevent reverse powering.

9) **Low TX Battery Indication**
Low transmitter battery indication is provided on the DX2020 receiver.

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DX2020

1) **On/Off Switch**
Slide the switch up to turn the unit on. Slide it down to turn the unit off.
The 6 pin lemo plug of the output cable has a separate internal connection that enables the unit to be turned on and off simply by inserting or removing the plug, therefore the on/off switch can be left permanently on if desired.

2) **Frequency Select Switch**
Switch off the unit. Slide the two position F1/F2 switch up or down to select either of the frequency banks. The individual frequencies in the bank are selected by using a small screwdriver to position the frequency select multi-way switch to one of sixteen positions, via the hole in the front of the receiver. Once the frequency selection has been made, switch the receiver on.

3) **Headphone Output Level Control**
Use a small screwdriver to adjust the potentiometer control to the desired level.

4) **Carrier Signal LED Indicators**
Two amber LED's light when no carrier signal is being received. When a carrier is being received, neither LED will illuminate-saving battery current during normal operation.

5) **Low Battery LED Indicators**
Two red LED's (top for transmitter's battery, bottom for the receiver unit) light when the unit detects low battery power. Do not use the unit when the low battery indicator is illuminated as poor operation may result. When battery power is sufficient, neither LED will illuminate therefore saving battery current during normal operation.

6) **Diversity Receiver Active LED Indicators**
One of two amber LED's light to indicate which of the unit's two built-in receivers is active at any one time.

7) **Output Connector**
A six pin lemo connector provides a full floating, transformer balanced microphone level output. Connections are identical to the DX2000 & MX2000 receivers, allowing leads to be fully interchangeable. Inserting the corresponding plug makes a separate connection in the output connector which will switch the unit on (with the on/off switch in the correct position). Removing this plug will also switch the power off.

If the DX2020 is powered externally, the link between the 'batt' pin and the "+9V" pin should not be fitted, so that power is not applied to any batteries which may be in the unit. Optional leads are available which enable the DX2020 to be powered directly from a camcorder or portable audio mixer.

8) **Antennae**
Two standard SMA connectors are used for the antennae sockets. These are very high quality microwave connectors which ensure excellent performance up to the highest frequencies. Various types of antennae, to suit the application, can be fitted to the receiver .

9) **Battery Access**
Open the battery compartment by flipping up the cap on the end of the unit. Use 3 DL123A lithium batteries and insert the negative contact first. Do not use force.

10) **Multiway Connector**
The Multiway connector provides a convenient interface with the DK2000 and RK2 rack systems.

NOTE: Both units must be first switched off and then on to enable the selected frequency.