



# SM-6100

## Operating Manual



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### ***Federal Communication Commission Interference Statement***

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 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.

***FCC Caution*** : To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

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

## Operation

Chiayo Transmitters and Receivers have factory preset to allow immediate using after switch-on.

However, please note that the transmitter Sensitivity function is dependent on application such as close proximity singing or tripod mouth speech. To avoid overmodulation and distortion, please check whether the preset sensitivity level is suitable for your particular application. For close proximity singing purposes, please select lowest sensitivity level whereas for tripod mount speech purposes, please select a higher sensitivity level.

If you have made changes to the setting, after making proper selection on Transmitter and Receiver settings the system is ready for operation. However, both antenna of the receiver must be installed to assure a good reception.

First switch on the receiver by pressing the Power On / Off switch. The LCD display will show the information last stored.

Switch on the matching transmitter with the correct matching frequency. The LCD display will show the information last stored.

The LED RF indicator on the receiver front panel will light up indicating RF signal has been received. If this is not the case, please check and verify the frequency setting on both transmitter and receiver. When transmitter is moving around, the Diversity A B switch will light on alternately to indicate the stronger reception on either A or B antenna.

When voice is spoken into the microphone, the LED AF indicator on the receiver front panel will light on and flashes according to the intensity of the AF signal.

There are two different audio outputs at the rear side of the receiver: Balanced ( Microphone level ) and Unbalanced ( LINE level ). Please select the matching output to match the input of the connecting Mixer or Amplifier.

## Beltpack Transmitter : SM-6100 / SM-3000



Fig.11.

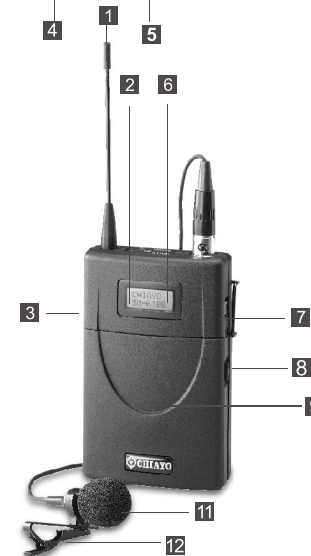


Fig.12.

1. Antenna  
(SM-3000 without antenna)
2. Battery weak indicator
3. Power On / Off switch
4. 4 pins mini-XLR connector
5. Audio mute switch
6. LCD display
7. Charging port
8. Cover release button
9. Battery compartment
10. Charging contacts
11. Lavalier microphone
12. Mic clip

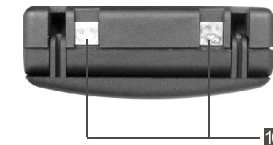


Fig.13.

## INSTALLATION OF BATTERIES

SM-6100 uses 2 pieces of "AA" size batteries (Alkaline battery is recommended ). To install or remove the batteries, press the release buttons at the edges of the transmitter to open or close the cover as illustrated ( Fig.14 ). When installing the batteries with the cover open toward you, the cover might block your hand. It is thus recommended that while inserting or removing the batteries please hold the transmitter in such a way that the cover opens away from you. ( Fig.15 )



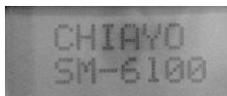
Fig.14



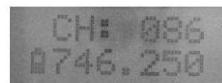
Fig.15

## Information on Beltpack transmitter LCD.

Press Power On switch for about 2 seconds, the following page will appear briefly.



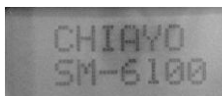
Press down button once more and the CHANNEL / FREQUENCY page will appear:



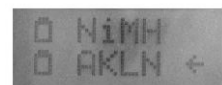
Press down button once more and the USER NAME page will appear.



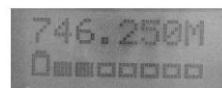
Press down button once more and the Brand/ Model page will appear.



Press down button once more and the BATTERY SELECTION page will appear :



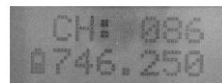
Press down button once more and the FREQUENCY / BATTERY STATUS page will



## Making changes to various settings in Beltpack Transmitter.

### 1. Make changes to CHANNEL / FREQUENCY setting.

Use UP or DOWN button to go to the CHANNEL /FREQUENCY page.



Press SET button for about 2 seconds, the cursor will flash to allow changing to be made. Pressing UP or DOWN button will increase or decrease the channel number. The corresponding frequency will change accordingly. When a desired channel(frequency) is being selected, press SET for about 2 seconds to save and

**Remark : When changing transmitter frequencies, care should be taken to avoid causing interference to other channels / users.**

2. Make changes to USER NAME setting.  
Use UP or DOWN button to go to the USER NAM page.

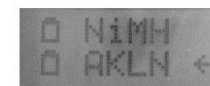


Press SET button for about 2 seconds to activate the cursor which will flash to allow changing to be made at the first position. Cursor LEFT and cursor RIGHT buttons are for moving the cursor to left or right position. When a change is intended for a particular letter, press cursor LEFT or RIGHT to move the cursor to the desired position.

Press UP or DOWN button to roll the ASCII code forward or backward.

When the desired letter or the whole selection is completed, press SET ( centre button ) for about 2 seconds to save and store the data in the memory.

3. **Make changes to battery selection setting.**  
Use UP or DOWN button to go to the Battery selection page.



Press SET for about 2 seconds to activate the cursor. Press UP or DOWN button to move the cursor to either NiMH ( rechargeable battery ) or AKLN ( Alkaline battery ) position.

When the desired battery has been selected, press SET for about 2 seconds to save and store the data in the memory.

**Remark : NiMH battery must be selected when rechargeable battery is being used. Never select AKLN ( Alkaline ) when transmitter is intended for charging as Alkaline battery can not be charged ! Wrong selection of battery will result in battery sensing electronics to display wrong and misleading status information.**