



SDR-6200 IrDA SDR-6100 IrDA

UHF 2-Way Synchronizing True Diversity / Diversity Wireless Microphone System

Operation manual



ISO 9001



ISO 14001



OHSAS 18001



GREEN PRODUCT



Thank you for choosing this wireless microphone system!

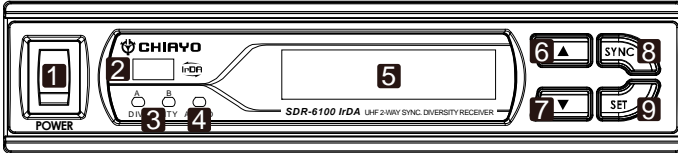
Our products are designed to last and for user friendly operation. Each system consists of:

1. a receiver
2. a handheld or belt-pack transmitter
3. a pair of antennas
4. a switching adaptor
5. an operation manual

For more details, please take a few moments to read this operating manual to have a thorough understanding of the function and operation of both transmitter and receiver.

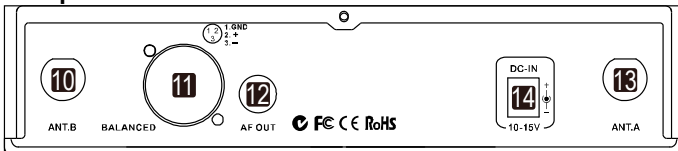
Parts and functions of SDR-6200 IrDA/SDR-6100 IrDA receiver

Front panel

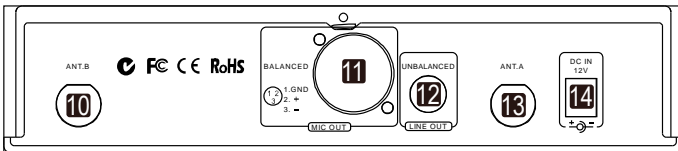


1. Power switch
2. IR sensor area
3. Diversity indicator
4. Audio signal indicator
5. LCD display
6. UP button
7. DOWN button
8. IrDA synchronization button
9. SET button

Rear panel



SDR-6200 IrDA



SDR-6100 IrDA

10. Antenna B socket (TNC)
11. Balanced audio output
12. Unbalanced audio output
13. Antenna A socket (TNC)
14. DC in

Changing CHANNEL / FREQUENCY

CHANNEL:001
FREQ:800.000 MHZ

First, press "SET" till the display shows

Then press UP or DOWN to select a new channel. As the channel changes, the frequency changes accordingly, too. After the setting is made, the data will be automatically saved.

CHANNEL scanning

For an interference-free operation, a cleaner channel might be necessary if the current one receives too much interference. Before scanning, the transmitter must be switched off.

AUTO SCAN UP
AUTO SCAN DOWN

First, press "SET" till the display shows

AUTO SCANNING
CHANNEL : 002

Then press UP or DOWN to go to the next clean channel.

After the setting is made, the data will be automatically saved.

CHANNEL SYNCHRONIZING of the receiver and transmitter

- Limit the distance between the receiver and transmitter within 30cm.
- Align both infrared areas
- To change the receiver's channel, please press the synchronizing button of the transmitter. The transmitter's LED will glow to imply synchronizing signal transmitted and

PLL CHANNEL
COPIED BY IRDA

will appear on the receiver's LCD, which means the receiver has been successfully synchronized.

- To change the transmitters channel, please press the SYNC button of the receiver and

CH:001 800.000M
IRDA DATA SEND

CH:001 800.000M
IRDA TX FINISH

will appear on the receiver's display, followed by indicating data transferred.

Adjusting VOLUME level



The setting can be made right on the main menu. Press UP or DOWN to choose a new level. After the setting is made, the data will be automatically saved.

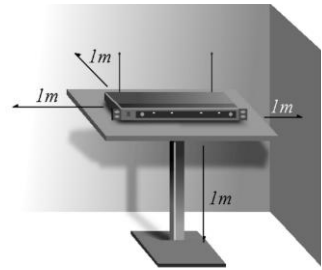
Adjusting SQUELCH level



First, press "SET" till the display shows. Then press UP or DOWN to choose a new level. After the setting is made, the data will be automatically saved.

Receiver installation

For best operation, the receiver should be at least 1m above the ground and 1m away from a wall or metal surface to minimize reflections. The transmitter should also be at least 1m away from a wall or metal surface to minimize reflections. The transmitter should also be at least 1m away from the receiver. Keep antennas away from noise source such as motors, automobiles, neon light as well as large metal objects.

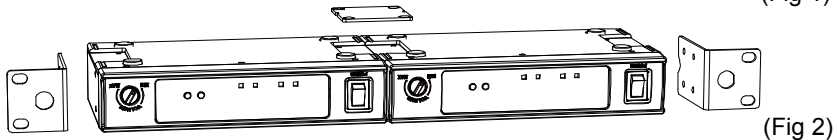
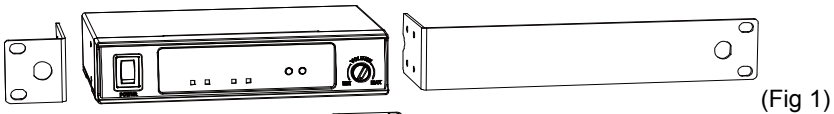


Audio output connection

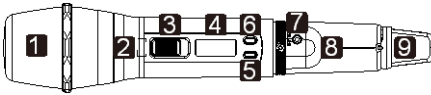
There are two audio outputs on the back of the receiver, Mic-level balanced and Line-level unbalanced. Use shielded audio cable for the connection between the receiver and the amplifier/mixer. If the amplifier/mixer has a 1/4"(6.3mm) phone jack, connect a cable from the 1/4"(6.3mm) unbalanced audio output from the receiver to the amplifier/mixer. If the amplifier/mixer has an XLR input, connect a cable from the balanced XLR audio output from the receiver to the amplifier/mixer input.

Rack mounting

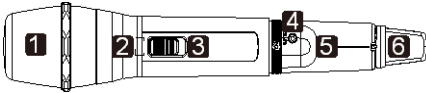
The receiver can be cabinet-mounted by either one or two units. If only one receiver is to be mounted, an optional kit is available and it's installed as shown in Fig 1. If two receivers are to be mounted, they can be assembled by another kit and installed as shown in Fig 2.



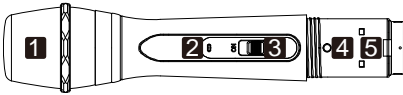
UHF handheld transmitters (SQ-6100 IrDA(R) | SQ-6100 IrDA | SQ-2100 IrDA | SQ-1100 IrDA)



→SQ-6100 IrDA(R) | SQ-6100 IrDA



→SQ-2100 IrDA



→SQ-1100 IrDA

Parts and functions	SQ-6100 IrDA(R)	SQ-6100 IrDA	SQ-2100 IrDA	SQ-1100 IrDA
Cartridge	1	1	1	1
Battery power LED	2	2	2	2
Power switch	3	3	3	3
LCD	4	4	-	-
Menu button	5	5	-	-
Setting button	6	6	-	-
IrDA synchronizing button	7	7	4	4
Battery compartment	8	8	5	5
Color cap	9	9	6	-
IrDA sensor area	10	10	7	6
Charging port	11	-	-	7

Battery installation & indicator

This transmitter requires 2 x AA batteries to operate.

To install, remove the battery cover and slide the batteries into the battery compartment & replace the battery cover.

Note: Batteries contain a corrosive acid that may leak and damage the transmitter when stored for a long period. Batteries should be removed from the transmitter before storing without use for more than 4 weeks.

When the transmitter is switched ON, a red LED ② will blink once to indicate the batteries installed are in good condition. **If the LED remains illuminated, it means the batteries are weak and require replacement.**

Channel synchronizing of the receiver and transmitter

1. To achieve a trouble-free synchronization, please limit the distance between the receiver and transmitter to within 30cm.
2. Align both sensor areas
3. To change the receiver's channel, please press the synchronizing button of the transmitter. The transmitter will transmit synchronizing signal to the receiver and change its channel.
4. To change the transmitter's channel, please press the synchronizing button of the receiver. The receiver will transmit synchronizing signal to the transmitter and change its channel.

Other settings (SQ-6100 IrDA(R) | SQ-6100 IrDA)

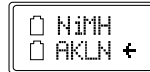
1. Channel setting



Use **MENU** button to go to the **CHANNEL | FREQUENCY** page. :

After pressing the **SET** button for 3 seconds, the cursor will flash to allow changes to be made. Pressing **SET / MENU** buttons will increase / decrease the channel number. The corresponding frequency will change accordingly. 3 seconds after selecting a channel, it will be automatically saved.

2. Battery type setting

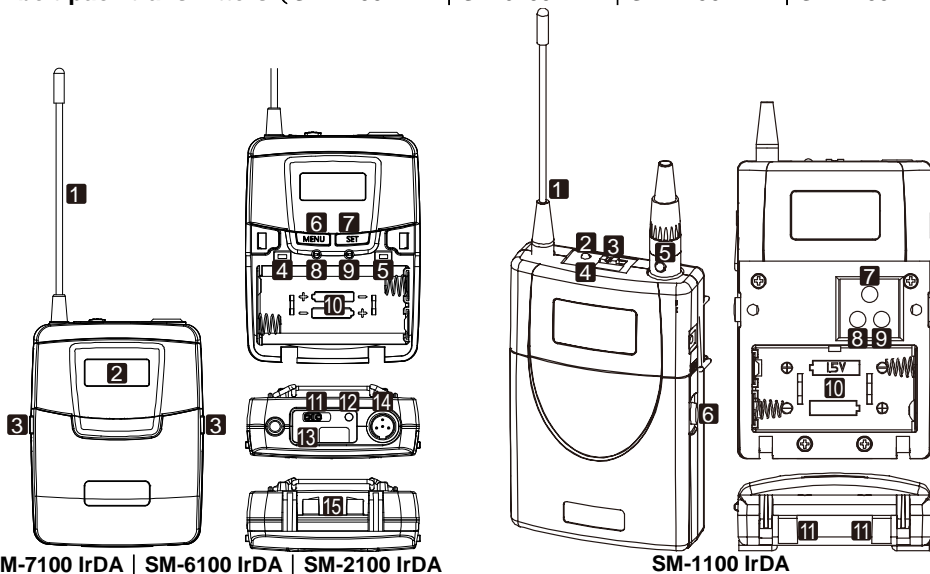


Use **MENU** button to go to the **BATTERY TYPE** page. :

After pressing the **SET** button for 3 seconds, the cursor will flash to allow changes to be made. Press **SET** button to select either **NiMH** (rechargeable battery) or **AKLN** (alkaline battery). 3 seconds after selecting a battery type, it will be automatically saved.

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 isn't rechargeable. Wrong battery selection will result in battery sensing electronics to display wrong and misleading status information.

UHF belt-pack transmitters (SM-7100 IrDA | SM-6100 IrDA | SM-2100 IrDA | SM-1100 IrDA)



SM-7100 IrDA | SM-6100 IrDA | SM-2100 IrDA

SM-1100 IrDA

Parts and functions	SM-7100 IrDA	SM-6100 IrDA	SM-2100 IrDA	SM-1100 IrDA
Antenna	1	1	1	1
LCD	2	2	-	-
Cover release button	3	3	3	6
Power switch	4	11	11	3
IrDA synchronizing button	5	5	5	7
Menu button	6	6	6	-
Setting button	7	7	7	-
High-impedance gain control (GT)	8	8	8	8
Low-impedance gain control (MT)	9	9	9	9
Battery compartment	10	10	10	10
Audio mute switch	11	-	-	-
Battery power LED	12	12	12	2
IrDA sensor area	13	13	13	4
Mini XLR connector	14	14	14	5
Charging contacts	15	15	15	11

Battery installation & indicator

This belt-pack requires 2 x AA batteries to operate.

To install, open the battery cover using the cover release buttons and insert the batteries into the battery compartment.

Note: Batteries contain a corrosive acid that may leak and damage the belt-pack when stored for a long period. Batteries should be removed from the belt-pack before storing without use for more than 4 weeks.

When the transmitter is switched ON, the battery power LED (red) will blink once to indicate the batteries installed are in good condition. **If the LED remains illuminated the batteries have expired and require replacement.**

Channel synchronizing of the receiver and transmitter

1. To achieve a trouble-free synchronization, please limit the distance between the receiver and transmitter to within 30cm.
2. Align both sensor areas
3. To change the receiver's channel, please press the synchronizing button of the transmitter. The transmitter will transmit synchronizing signal to the receiver and change its channel.
4. To change the transmitter's channel, please press the synchronizing button of the receiver. The receiver will transmit synchronizing signal to the transmitter and change its channel.

GAIN setting (GT | MT)

Gain control enables the user to set different output levels. GT is for the use of instrument with high impedance, such as guitar while MT is for the use of low impedance such as lapel or headset microphones.

Other settings (SM-7100 IrDA | SM-6100 IrDA)

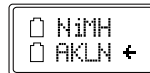
1. Channel setting



Use **MENU** button to go to the **CHANNEL | FREQUENCY** page. :

After pressing the **SET** button for 3 seconds, the cursor will flash to allow changes to be made. Pressing **SET / MENU** buttons will increase / decrease the channel number. The corresponding frequency will change accordingly. 3 seconds after selecting a channel, it will be automatically saved.

2. Battery type setting



Use **MENU** button to go to the **BATTERY TYPE** page. :

After pressing the **SET** button for 3 seconds, the cursor will flash to allow changes to be made. Press **SET** button to select either **NiMH** (rechargeable battery) or **AKLN** (alkaline battery). 3 seconds after selecting a battery type, it will be automatically saved.

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 isn't rechargeable. Wrong battery selection will result in battery sensing electronics to display wrong and misleading status information.

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This device complies with Part 74 & 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.



CHIAYO ELECTRONICS CO.,LTD.

[Http://www.chiayo.com.tw](http://www.chiayo.com.tw) | Email: sales@chiayo.com.tw

Office: 30, Lane 27, Section 4, Jen-Ai Road, Taipei 10685, Taiwan | Tel: 886-2-27415741 | Fax: 886-2-27525242
Factory: 88, Chung-Hsiao Street 2, Chiayi 60080, Taiwan | Tel: 886-5-2711000 | Fax: 886-5-5767611