MIPRO®

ACT-32 T Bodypack Transmitter

User Guide

FC CE

2 CE 3 4 7 A

AS110715

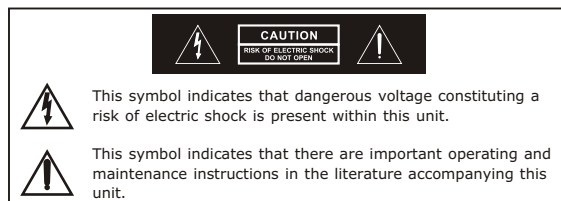Design and specifications are subject to change without prior notice

! IMPORTANT SAFETY INSTRUCTIONS !

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarised or ground plug: A polarised plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, should be placed on the apparatus.
17. Use only with the battery which specified by manufacturer.
18. The power supply cord set is to be the main disconnected device.

WARNING

1. **FOR OUTDOOR USE:**
   To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

2. **UNDER WET LOCATION:**
   Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the apparatus.

3. **SERVICE INSTRUCTIONS:**
   CAUTION - These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

FC & IC - ID

THIS DEVICE COMPLIES WITH PART 74 OF THE FCC RULES AND RSS-123 ISSUE2 OF CANADA. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Disposal Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.

Disposing of used batteries with domestic waste is to be avoided!

2006-08-13

Batteries / NiCad cells often contain heavy metals such as cadmium(Cd), mercury(Hg) and lead(Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/ accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.

By doing so, you contribute to the conservation of our environment!

Contents

Key Features

- Sturdy, lightweight, miniature-sized housing.
- Backlit LCD displays on transmitters for easy adjustment on dark stages.
- ACT™ syncs the transmitter and receiver frequency automatically.
- Pilotone squelch for interference-free operation.
- Built-in transmitter gain adjustment.
- Impedance selectable switch for microphone or guitar.
- 4-pin mini XLR connector is compatible with all MIPRO lavalier, headworn microphones and instrument cable.
- Silent on/off switch.
- 4-segment battery status meter.
- LCD displays group, channel & error message code.
- 20-hour battery life per 2 'AA' alkaline batteries.
- ACT-30T is a 24MHz bandwidth bodypack transmitter. Plastic housing and is compatible with ACT-311, ACT-312, ACT-311T and ACT-312T receivers.

Furnished Accessories:
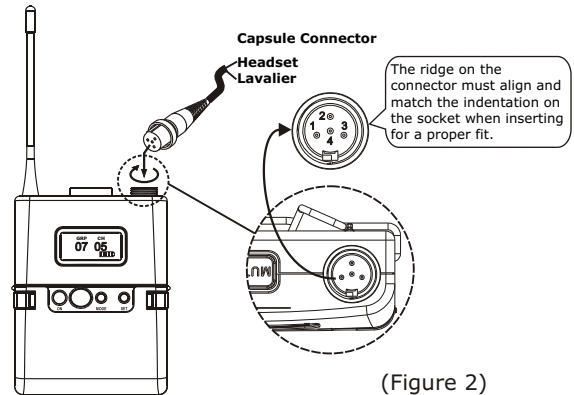
✎ USER GUIDE x1

Bodypack Controls and Indicators
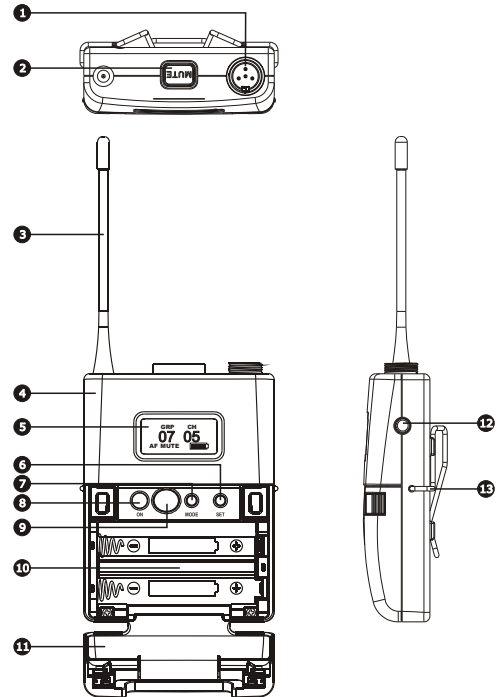
❶ **Audio Input Connector:** TA4F mini 4-pin connector accepts any MIPRO lavalier, instrument and headset microphones and cables. (See 5 ways of connection on AF Input Connections)

❷ **MUTE Button:** To mute and un-mute the audio signal temporary.

❸ **Antenna:** Flexible 1/ 4 wave transmitting antenna.

❹ **Transmitter Housing:** Holds PCB board and wires.

❺ **LCD Panel:** Display transmitter parameters.

❻ **SET Button:** Changes audio gain & RF power settings.

❼ **MODE Button:** To access and select parameters modes such as audio gain & RF power levels.

❽ **Power Button:** Press and hold 2 seconds to power ON or OFF.

❾ **ACT IR Port:** Align and syncs the transmitter and receiver frequency automatically.

❿ **Battery Compartment:** Holds 2 'AA' batteries.

⓫ **Battery Cover:** Hinged cover opens to provide access to 2 'AA' batteries.

⓬ **External Mute Connector:** When an external mute switch cable, MJ-70 (optional) is connected, user can manually mute and un-mute the audio temporary.

⓭ **Belt Clip:** Detachable and reversible design allows the transmitter to be worn on a belt, waistband, or guitar strap.

Operating Instructions

✎ The audio gain level is factory preset at Microphone-Low level. Guitar setting is recommended at LINE level.

✎ Insert the lavalier, headset microphone or instrument cable into the audio input connector before power ON the transmitter.

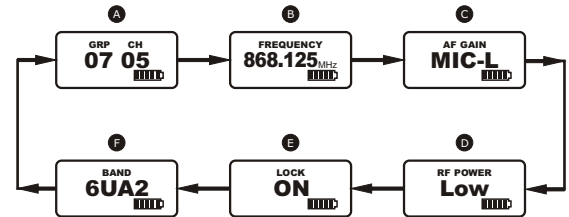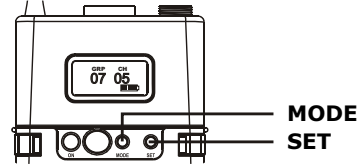✎ Tighten the connector screw clockwise direction as shown in (Figure 2) for a secured fit.

Capsule Connector
Headset
Lavalier

The ridge on the connector must align and match the indentation on the socket when inserting for a proper fit.

(Figure 2)

LCD Display Screen

BAND
8A
AF MUTE

⓮ LCD Screen

⓯ AF (audio) MUTE

⓰ Transmitter Battery Meter

Transmitter Parameters

✐ Press "**MODE**" button to access one of the six parameters below.

GRP CH
07 05

MODE
SET

Ⓐ
GRP CH
07 05

Ⓑ
FREQUENCY
868.125MHz

Ⓒ
AF GAIN
MIC-L

Ⓓ
RF POWER
Low

Ⓔ
LOCK
ON

Ⓕ
BAND
6UA2

Ⓐ Group and Channel

Ⓑ Frequency

Ⓒ Sensitivity Level

Ⓓ RF Output Power

Ⓔ Parameters Lock & Unlock Status

Ⓕ Frequency Band

$\mathscr{O}$ Frequency Band, Group & Channel and Frequency are factory pre-set, thus, its parameter values are displayed after it is ACT synced. Values cannot be changed.

```
BAND
8A
```
(Frequency Band)

```
GRP   CH
07 05
```
(Group and Channel)

```
FREQUENCY
868.125MHz
```
(Frequency)

Setting Input Sensitivity Level

$\mathscr{O}$ 4 Selectable Sensitivity Levels: **LINE**、**MIC-L (MICROPHONE-LOW)**、**MIC-M (MICROPHONE-MID)**、**MIC-H (MICROPHONE-HIGH)**.

$\mathscr{O}$ Press **MODE** button until **AF GAIN** mode appears.

$\mathscr{O}$ Press **SET** button once to activate function.

$\mathscr{O}$ Press **SET** button to select the desired sensitivity level.

$\mathscr{O}$ Press **MODE** button to confirm and save the change.

$\mathscr{O}$ The higher the sensitivity level, the lower the dynamic range of input signals. Meanwhile noise will increase, and the feedback problem will be getting more serious.

NOTE: Guitar setting is recommended at LINE level.

```
AF GAIN          AF GAIN          AF GAIN          AF GAIN
LINE    →    MIC-L    →    MIC-M    →    MIC-H
```
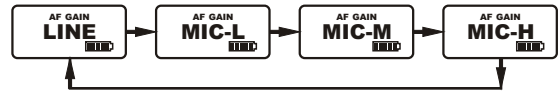
Setting RF Output Power

✐ 2 RF Output Power Levels: High and Low.

✐ Press **MODE** button until **RF POWER LOW** or **RF POWER HIGH** mode appears.

✐ Press **SET** button once to activate function.

✐ Press **SET** button to select the desired RF output power.

✐ Press **MODE** button to confirm and save the change.

```
RF POWER          RF POWER
 Low      ⇄       High
```
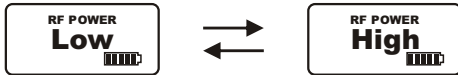
Setting LOCK

✐ Setting **LOCK** can be switched to On or Off mode.

✐ Press **MODE** button until **LOCK ON** or **LOCK OFF** mode appears.

✐ Press **SET** button to select the desired parameter.

✐ Press **MODE** button to confirm and save the change.

NOTE: Once locked, all six (6) parameter values cannot be changed.

```
 LOCK             LOCK
 ON       ⇄       OFF
```
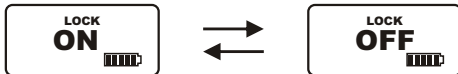
MUTE Control Set-Up

MUTE control enables audio to be muted or un-muted temporarily.

✐ Press **MUTE** button to mute audio temporarily. Parameter values can be changed and ACT sync activate during this **MUTE** mode.

✐ Press **MUTE** button to un-mute.

```
                            MUTE
```

```
 AF INPUT
 MUTE
 AF MUTE
```
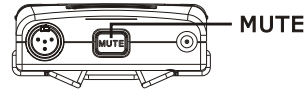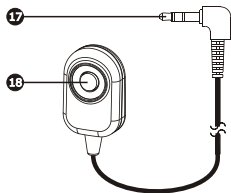
External Mute Connector

✐ External mute connector is a 3.5mm jack. When an external mute switch cable, MJ-70 (optional) is connected, user can manually mute and un-mute the audio temporary.

External mute connector
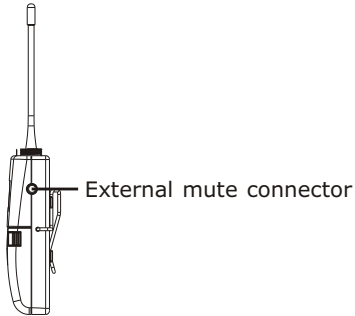
MJ-70 External Mute Switch (optional)

⓱ 3.5mm jack.

⓲ External mute switch on/off button.

**NOTE:** Plug in the device before power on the bodypack transmitter.

Power Button

✐ Press and hold for 2 seconds to power on & off.

RF POWER
PoFF

Battery Status

Indicates the power remaining in the transmitter battery. When the battery has less than 10% power remaining it must be replaced or recharged. If an under voltage condition continues, the LCD will show "PoFF" and the system will shut down to prevent being overly discharged.
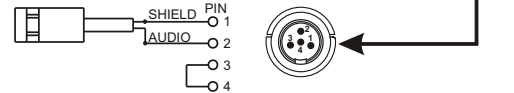
100%   80%   60%   40%   20%   10%
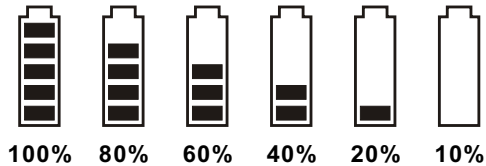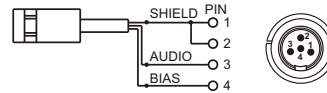
"PoFF" - Power Off:

When the power switch is turned off, the LCD will show "PoFF" (for Power Off) first and then the system will shut down and no further messages will be displayed.
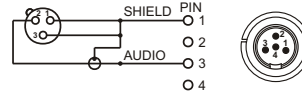
AF Input Connections
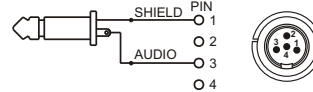
(1) 2-Wire Electret condenser microphone Capsule

```
SHIELD  PIN 1
AUDIO   2
        3
        4
```

(2) 3-Wire Electret condenser microphone Capsule

```
        SHIELD  PIN 1
                2
        AUDIO   3
        BIAS    4
```

(3) Dynamic Microphone

```
        SHIELD  PIN 1
                2
        AUDIO   3
                4
```

(4) Electric Guitar

```
        SHIELD  PIN 1
                2
        AUDIO   3
                4
```

(5) Line-in (Impedance 8KΩ ATT. 10dB)

```
        SHIELD  PIN 1
        AUDIO   2
                3
                4
```
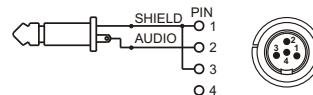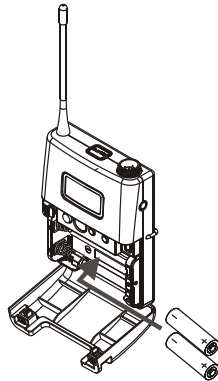
Battery Removal and Installation

Pushing down both snap locks on the sides to open battery compartment cover. Take out the two batteries. (Figure 3)

Insert two fresh AA batteries (alkaline type is recommended) into the battery compartment according to the correct polarity (- and +) as shown in (Figure 4). Then close the battery compartment cover tightly.
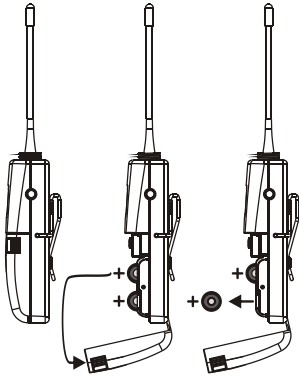
(Figure 3)   (Figure 4)

Caution:

Remove the batteries if unused for a long period of time to prevent battery leakage, corrosion and causes possible damage to electronics.

FCC
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.

This device complied with FCC radiation exposure limits as set forth for an uncontrolled environment.
This device should be installed and operated so that its antenna(s) are not co-located or operating in conjunction with any other antenna or transmitter

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).

IC
This device complies with Industry Canada's RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage;
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.