



## User Manual

AT-500T/R

**40 channel tour guide system & wireless microphone system**





## Introduction

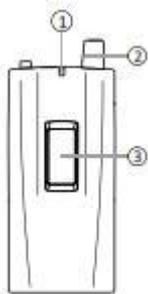
Thank you for purchasing this 40 channel communication system: AT-500T/R. This manual contains information about all functions and possibilities of this wireless communication system. Please read this manual carefully to make optimum use of the communication system.



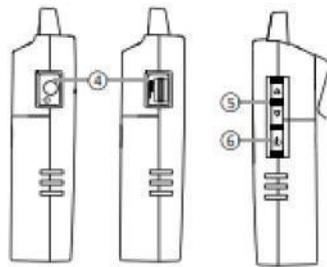
## Description of the functions

### AT-500T/R

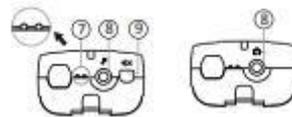
- |   |  |
|---|--|
| 1: Battery / Signal indicator                   | 8: Microphone connection (transmitter)   |
| 2: Antenna                                      | 9: Mute button   |
| 3: LCD screen                                   | 10: Charge contact points  |
| 4: Aux in (transmitter) Volume wheel (receiver) | 11: Necklace fixation  |
| 5: Channel up / channel down button             | 12: Belt clip (Not supplied standard)  |
| 6: Power button                                 | 13: Transmitter: Output power switch (High / Low) Receiver: Distance switch (High / Low) |
| 7: Built-in microphone (transmitter)            | Receiver: Distance switch (High / Low)   |
|   | 14: Battery compartment  |



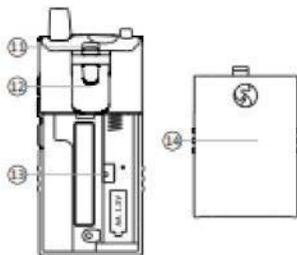
(Front)



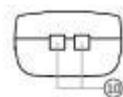
(Side)



(Upper side)



(Back)



(Bottom)



## **Installation and operation**

### **Installing batteries for the receiver and transmitter**

Open the battery compartment, by pushing it down. For this equipment only 1.2 volt rechargeable batteries and 1.5 volt AA Alkaline batteries are suitable. **Do not charge alkaline batteries!** Place the batteries as indicated on the inside of the receiver / transmitter.

### **Charging the batteries**

Use the Axitour 25 slot charging unit to charge the **rechargeable batteries**. You charge the rechargeable batteries by placing the transmitter / receiver in the charging unit. When the battery is fully discharge it can take up to 15 hours to fully charge the battery. When the battery is fully charged, the transmitter will work for a minimum of 8 hours.

When the transmitter / receiver is placed in the charging unit and connected to the power-supply, the LED-indicator in the charging unit will burn constantly red. When the battery of the transmitter is fully charged, the LED indicator will become green. When the LED- indicator is coloured green, the charging power will reduce to a minimum.

***Warning: do not place transmitters or receivers with Alkaline batteries in the charger!***



## Usage and instructions

### Battery transmitter / receiver

- When the icon of the battery indicates “”, the battery is fully charged.
- When the icon of the battery indicates “”, the battery isn't charged and it is recommendable to charge or replace the battery.

### Charging unit

- When the LED-indicator indicates red, the transmitter / receiver is charging.
- When the LED-indicator indicates green, the transmitter / receiver is fully charged.
- When the LED-indicator blinks, there is some charging error.



## **AT-500T transmitter operation**

1. On the side of the transmitter you will find 3 buttons. From the bottom to top: the power button, channel selector 'down' and channel selector 'up'. To switch the transmitter on, you have to push and hold the power switch for 2 seconds. The display will first show 'On' and after a few seconds, when it has started up, it will show you the channel and the battery indicator. You will also see the LED-indicator burn blue. Five seconds after turning the device on, the buttons will be locked and a 'lock' will appear in the display. In order to unblock the transmitter / receiver you push both 'channel selector' buttons simultaneously for 2 seconds.
2. On the top of the transmitter from left to right you'll see: the mute button, the 3,5mm microphone connection and the antenna. You can use the mute button for example when you want to deliberate with a colleague and there is no need for your guests to hear that. When the mute function is activated, the LED indicator will blink (on the transmitter).
3. On the side of the transmitter you will find the aux-connection. The aux connection is for connecting external audio sources like smartphones, a MP3-player or a laptop. In this way you can play audio (that has been recorded beforehand). For example audio that will support your tour, presentation or translation.
4. On the front side of the transmitter you'll find the display and the LED indicator. As indicated before the display shows you the battery indicator, the chosen channel and if the buttons are locked or not.
5. It is not possible or necessary to set the volume on the transmitter. Each receiver can individually set their volume.



## **AT-500R receiver operation**

1. On the side of the receiver you will find 3 buttons, from bottom to top: the power button, channel selector down and channel selector up. To switch the receiver on, you have to push and hold the power switch for 2 seconds. The display will first show 'On' and after a few seconds, when it has started up, it will show you the channel and the battery-indicator. If the transmitter is set up on the same channel, you will also see the LED-indicator burn blue. Five seconds after turning the device on, the buttons will be locked and a lock will appear in the display. In order to unblock the transmitter / receiver you push both channel selector buttons simultaneously for 2 seconds.
2. On top of the receiver you can see the antenna and the 3,5 mm. earphone connection.
3. On the side of the receiver you can see the volume-wheel. Every receiver can individually manage their volume by turning the wheel.
4. On the front of the receiver is the display and the LED indicator. As indicated before, the display will show the battery-indicator, the chosen channel and if the buttons are locked or not.



### **Interference free channels**

The AT-500 communication system has 2 different settings. When you guide more groups at the same time in the same environment, you can choose for pre-set interference free channels, so that you will not have interference when you walk among or through other groups.

With interference free channels we mean that the channels of the system will not cause interference amongst each other. It has no influence on channels from other equipment.

### **G1 & G2**

G1 is the pre-setting where you can use all 40 channels.

G2 is the pre-setting which only displays the interference-free channels. These are 12 channels. Interference free means the 12 channels can be used close to each other at the same time.

### **Setting up G1 & G2**

You have to push the power button and the channel selector simultaneously for 2 seconds. On the display you will see G1 or G2 blinking. With the channel-selector buttons you can switch between these settings. With the power-button you can confirm your selection. The transmitter or receiver will turn on right after you have chosen the setting.



## **Maintenance**

### **Avoid excessive heat**

Avoid exposure of the transmitter or receiver to excessive heat from the sun, contact with a heater or other sources of high temperatures.

### **Avoid rough treatment of the equipment**

Transmitter and receiver can be damaged when they are not handled carefully.

### **Fully charge the batteries**

Before you store the equipment, we advise you to charge the batteries till they are fully charged. If possible, charge the batteries at least once every month. It is also wisely to charge the equipment before you use it, even if it isn't completely uncharged.

### **Remove the batteries**

Take out the batteries when you don't use the equipment for a longer period of time.

### **Battery Poles**

Make sure the contacts stay clean and check these often. If they get filthy, try to clean them by using gum.



## Solving problems

Problem	Solution
<b>No power</b>	*check the power button. Turn the device off and on and check if the batteries aren't flat and if they are placed as they should be placed (check the contacts).
<b>No Sound</b>	*check if the transmitter and the receiver are tuned on the same channel.
<b>Interruptions in the sound</b>	* Check the volume wheel. * Check if the distance between the transmitter and receiver isn't too far. * Check if the transmitter and receiver aren't too close to metal objects. * When you use 2 or more transmitters, make sure every transmitter is tuned on another channel.



## Specifications AT-500

<b>Transmitter: AT-500T</b>	
RF Output power	10 mW.
Undesirable emissions	< 250 mW.
Microphone connections	3,5 mm jackplug
Level of modulation	3 kHz
Battery life	12 hours

<b>Receiver: AT-500R</b>	
Receiving mode	PLL single channel
Undesirable rejection	> 60 dB
IMD rejection	>50dB
Double intermediate	600M & 640M band 45MHz / 455 kHz; anders 21.4 MHz / 455 kHz
Volume Level	300mV
AUX connection	3.5mm jackplug
Battery life	12 hours