

RETEKESS



Tour Guide System

RETEKESS



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What makes us different

- Product planning and R&D capabilities is based on customer needs
- Omni-channel brand marketing and fast-response professional services
- Supply chain system is efficient and controllable
- International process-operation capability
- Structured talent development echelon
- Comprehensive information management

About US

Ysair Technology Co., Ltd. was founded in 2008 with headquarters in Zhengzhou and an innovation and logistics center in Shenzhen. Rete-kess is a brand under Ysair, which specializes in the R&D and manufacturing of wireless audio communication devices, offering diverse solutions.

Our product portfolio includes service call systems, tour guide systems, silent disco systems and more. With a global presence, we maintain warehouses and after-sales service centers across the United States, Canada, Europe, Australia, Russia, and Japan to ensure efficient, high-quality service experiences for you.



One-Way Tour Guide System

- **TGS-50**
Digital Wireless Tour Guide System
- **TT106S**
Ear-hook Wireless Tour Guide System
- **TT116**
Replaceable Battery Wireless Tour Guide System
- **TT120**
Bone Conduction Wireless Tour Guide System
- **TT122**
Global Universal Wireless Tour Guide System
- **TT127**
Dual-transmitter Wireless Tour Guide System
- **TT129**
Triple-transmitter Wireless Tour Guide System



TGS-50

Digital Wireless Tour Guide System

Feature

- Supports Up to 70 Simultaneous Groups
- Noise Cancellation for clearer voice transmission
- Channel Lock prevents misoperation
- OLED Display shows battery, channel, sync status, and noise cancellation setting
- Auto Screen Off after 1 minute; wake by pressing any key
- Charging Indicator with status light
- Signal Indicator stays green during operation
- Wide Coverage: up to 300m (984ft) in open areas
- Type-C Charging Port compatible with charging case

Optional accessories

- TGS-CHG50 32-slot charging case
- TGS-CHG55 55-slot charging case
- TGS-M01 Mini microphone
- TGS-M02 Lavalier microphone
- TGS-M03 Headset microphone
- TGS-E01 D shape earpiece



TGS-50 Transmitter and Receiver

Frequency	863-865MHz / 823-832MHz
Channel	70
Frequency Response Range	20Hz-16kHz
Size	86×53×16mm
OLED Size	22.5×12.5mm
Batter	2000mAh
Working hours	TX 20 hrs / RX 42 hrs
Charging Time	~4 hours
Charging method	Type-C / Charging Case
Audio Jack	3.5mm
Weight	71g
Operating Temperature	-10°C to 50°C
Signal-to-Noise Ratio	87dB



TT106S

Ear-hook Wireless Tour Guide System

Feature

- 9999 channels, supporting multiple translation groups in the same scenario
- One-button mute function
- Wireless ear-hook receiver, lightweight and portable
- Clear and interference-free sound quality
- Up to 25 hours of battery life on the receiver

Optional accessories

- TT035 32-slot charging case
- TT035A 64-slot charging case
- TT002 16-slot USB charging base
- TT036 22-slot carry case



TT106S Transmitter

Operating Frequency Range	2.4-2.485GHz
Operating Voltage	DC 3.7V
Transmit Power	≤100mW
Signal-to-Noise Ratio	≥80dB
Usage Time	23H
Operating Distance	200m/656ft (open space)
Lithium Battery Specification	3.7V/1900mA
Charging Interface	TYPE-C
Charging Voltage	DC 5V
Operating Current	≤160mA
Charging Current	300mA
Charging Time	Approximately 8H

TT106S Receiver

Operating Frequency Range	2.4-2.485GHz
Operating Voltage	DC 3.7V
Transmit Power	/
Signal-to-Noise Ratio	≥80dB
Usage Time	Approximately 50H
Operating Distance	200m/656ft (open space)
Lithium Battery Specification	3.7V/450mA
Charging Interface	TYPE-C
Charging Voltage	DC 5V
Operating Current	≤15mA
Charging Current	200mA
Charging Time	Approximately 3H



TT116 Replaceable Battery Wireless Tour Guide System

Feature

- Noise reduction technology ensures crystal-clear sound
- UHF frequencies are less susceptible to interference and provide stable, smooth audio
- Provides space to customize photos or messages
- Transmitter working time 10 h, receiver working time 13 h
- Working range up to 200 m/656ft
- Support both AUX and MIC at the same time
- Automatic locking keys to prevent accidental touch
- Synchronize channels automatically
- One key to mute the transmitter
- One key to turn off all receivers
- Receiver has 10 levels of adjustable volume

Optional accessories

- TT020 30-slot charging case
- TT002 16-slot USB charging base
- TT016 48-slot carry case



TT116 Transmitter

Frequency range	902-928mhz (US version) 823-832mhz&863-865mhz (European version)
Channel	50 channels
Working current	70mA
Operating voltage	DC 3.7V
Transmitted output power	25-30dBm
Audio frequency input	3.5mm line /Microphone input
Degree of distortion	<5%
Effective working area	200m (empty)
Capacity of battery	1000mAh
Working hours	About 10 hours
Size	114.8x54.8x20.6mm
Weight	65g

TT116 Receiver

Frequency range	902-928mhz (US version) 823-832mhz&863-865mhz (European version)
Channel	50 channels
Working current	70mA
Operating voltage	DC 3.7V
Audio frequency output	3.5mm earphones
Received power	-106dbm
Degree of distortion	<5%
Effective working area	200m (empty)
Capacity of battery	1000mAh
Working hours	About 13 hours
Size	114.8x54.8x20.6mm
Weight	56g



TT120 Bone Conduction Wireless Tour Guide System

Feature

- Receiver waterproof to IP68 can be submerged in water for long periods
- 9 channels, up to 9 groups can be run in the same area
- Receiver is bone-conductive, comfortable and lightweight (39 g)
- Transmitter with built-in microphone, and lavalier microphone 2 options for use
- Transmission range of 120m from the transmitter on the surface of the water and 50m in submerged environments of 1.5-2m



TT120 Transmitter

Size	260*50*23mm
Weight	158g
Battery	Li-ion Battery, Model: 123658, 3500mAh
Nominal Battery Voltage	3.7V
Transmit Power	50 NW max
Signal-to-Noise Ratio	63dB Stereo SNR
Frequency	97-101MHz
Frequency Response Range	40Hz-15KHz
Number of Channels	9CH
Channel Spacing	200KHz
Distortion	0.1% THD@STEREO, $\Delta f = 67.5 \text{ kHz}$
Operating Time	Approximately 10h
Transmission Distance	120m in the open water environment; 50m in an underwater environment at depths of 1.5m to 2m;
Charging Time	Approximately 5h
Waterproof Rating	IP54

TT120 Receiver

Size	130*95*50mm
Weight	39g
Frequency	97-101MHz
Battery	Li-ion Battery, Model: 521333, 270mAh
Nominal Battery Voltage	3.7v
Operating Time	Approximately 5h
Charging Time	Approximately 3h
Waterproof Rating	IP68



TT122 Global Universal Wireless Tour Guide System

Feature

- Transmitter working time 12h, receiver working time 18h
- Working range up to 60m/196ft
- Synchronize channels automatically
- Receiver has 10 levels of adjustable volume
- Portable and easy to use
- One key to turn off all receivers

Optional accessories

- TT015 32-slot charging case
- TT002 16-slot USB charging base
- TT016 48-slot carry case



TT122 Transmitter

Frequency range	2400-2480MHz
Channel	36 channels
Output power	10mW
Power supply	Built-in 1500mAh lithium battery
Working time	About 12 hours
Working distance	150 meters (open air)
Size	53.5x 19.2 x 74.2mm
Weight	70g

TT122 Receiver

Frequency range	2400-2480MHz
Channel	36 channels
Power supply	Built-in 1500mAh lithium battery
Working time	About 18 hours
Size	53.5 x 19.2 x 74.2mm
Weight	70g
Input voltage	5V



TT127 Dual-transmitter Wireless Tour Guide System

Feature

- **Three modes**
 - Tour guide mode –leading groups with ‘live’ transmission from the guide,i.e., live explanation
 - Guide mode – content transmission mode – the guide plays recordings to the group from the transmitter’s memory. At any point they can interrupt the recording to add ‘live’ comments
 - Tour guide conference mode – 2 guides speak simultaneously to 1 group
- **Allows playback and storage of audio in 41 languages**
- **MP3 files can be played with the numeral button, Mp3 player with play, pause, and previous/next track functions**
- **Connect the transmitter to a computer via the USB cable to upload and update MP3 audio files**
- **16GB large memory, can store 455 hours of audio**
- **Automatic locking keys to prevent accidental touch**
- **Synchronize channels automatically**
- **One key to mute the transmitter**
- **Communication range of 200m in open areas**
- **Receiver auto shuts off when no signal is received for 20 minutes**
- **The indicator flashes red when battery life falls below 1 hour**
- **Type-C port and more convenient contact charging**

Optional accessories

- TT025 28-slot charging case
- TT024 45-slot charging case
- TT002 16-slot USB charging base



TT127 Transmitter

Size	52mm*102mm*14.5mm
Weight	65g
microphone plug	3.5mm
Volume	Level 15
Charging voltage	DC 5V
Charging method	Type C/contact charging
Battery capacity	1500mAh
Charging time	About 4h
Battery life	About 12h
Built-in storage	16G
Frequency range	European frequency: 863-865MHZ US frequency: 902-928MHZ
Channels	European channel: 15 US channel: 100
Working current	140mA
Channel spacing	250-500KHz
Volume	Level 15
Distortion	<1%
Antenna	External fixed antenna
Battery capacity	1500mAh
Language	Built-in 41
Rated voltage	3.7V
Operating temperature	-10 °C-50 °C
Transmitting distance	Max.200m

TT127 Receiver

Size	52mm*60mm*14.5mm
Weight	48g
Headphone plug	3.5mm
Volume	Level 15
Charging voltage	DC 5V
Charging method	Type C/contact charging
Battery capacity	1200mAh
Charging time	About 3h
Battery life	About 24h
Sensitivity	'105db
Frequency range	European frequency: 863-865MHZ US frequency: 902-928MHZ
Channels	European channel: 15 US channel: 100



TT129 Triple-transmitter Wireless Tour Guide System

Feature

- Supports simultaneous use of three transmitters
- Supports 4-level adjustable noise cancellation function
- Headphone monitoring function
- Up to 120 hours of battery life on the receiver
- Effective range of primary and secondary transmitters: 100 meters
- Effective range of transmitter and receiver: 200 meters

Optional accessories

- TT021 32-slot charging case



TT129 Primary/Secondary Transmission

Frequency Range	2403-2483 MHz
Number of Channels	999
Operating Mode	FHSS
Product Weight	96g
Communication Distance	50-250 meters (open area)
Primary/Secondary Distance	50-100 meters (open area)
Operating Time	Approximately 20 hours
Microphone Parameters	-36±2 dB unidirectional; Microphone Gain Level 01 -4 dB, Level 02 +8 dB, Level 03 +12 dB, Level 04 +16 dB
Noise Reduction Levels	4 levels; Level 1 -10 dB, Level 2 -20 dB, Level 3 -30 dB, Level 4 -50 dB
Microphone Volume	10 levels
Charging Time	USB Type-C approximately 5 hours

TT129 Receiver

Frequency Range	2403-2483 MHz
Number of Channels	999
Operating Mode	FHSS
Product Weight	96g
Communication Distance	100-200 meters (open area)
Operating Time	≥120 hours
Charging Time	USB Type-C approximately 5 hours
Headphone Specifications	32 ohms