



# GPA-820 D1

Wireless active speaker  
with Duo Receiver

User Guide



Part no 504820



## Contents

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Features	3
Product mix & Illustrations	4
Controls and Operations	5
UHF Duo Receiver Module DR-500	6
UHF Audiolink Transmitter TX-701-820	8
Troubleshooting	9
Important Maintenance Guideline	9
Specifications	10
Environment	11
Important notes	11

## Features

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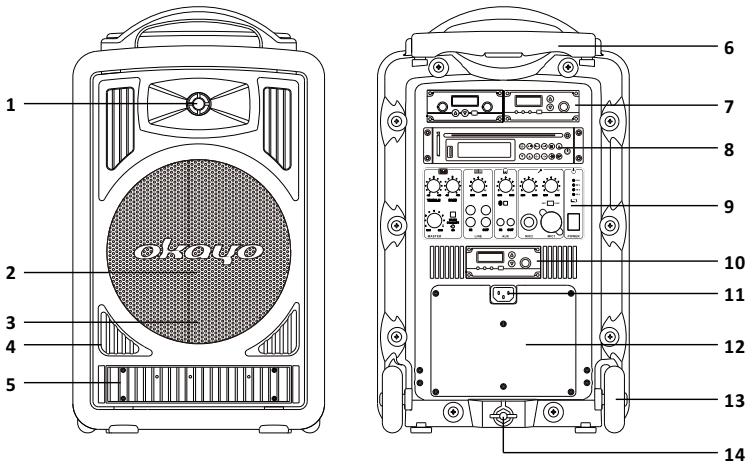
- 120W power output (max).
- Two-way speaker – 8” woofer and 1” tweeter – deliver great sound projection.
- Supports max two UHF ACS receiver modules (DR-501A) or UHF Duo receiver modules (DR-500) allows 4 wireless microphones to operate concurrently.
- Integrated Bluetooth function for audio streaming from smartphone and tablet.
- Built-in Echo sound effect & delay applied on wireless mics and audio inputs (GPA-828 ONLY).
- Various audio player modules for option – MP3, CD, DVD, pitch control or recording – at users' choice.
- Voice priority allows a reduced music volume when a microphone is used.
- 4-segment battery meter for charging and power status reading.
- Two power models – AC or Battery powered.
- Runs 4-6 hours on a charge (built-in battery charger).
- Retractable handle and PU wheels allows users to move without difficulty.

# Product Mix

## GPA-820/828 series

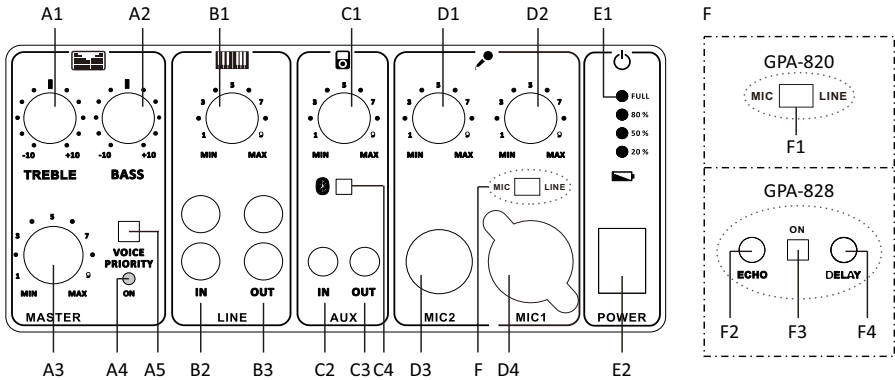
Model	UHF ACS Receiver Module DR-501A	UHF Duo Receiver Module DR-500	UHF Audiolink Transmitter Module TX-701-820	CD Player CD-800S+
GPA-820				
GPA-820W1	1			
GPA-820WT1	1		1	1
GPA-820D1		1		
GPA-820DU1		1		1
GPA-828				
GPA-828W1	1			
GPA-828WT1	1		1	1
GPA-828D1		1		
GPA-828DU1		1		1

## Illustration



- 1. Horn Tweeter
- 2. Speaker Grill / Full Range Speaker
- 3. Bluetooth Indicator
- 4. Speaker Holes
- 5. Ventilator
- 6. Trolley Handle
- 7. Wireless UHF Receiver Module
  - DR-501A (UHF ACS Receiver Module)
  - DR-500 (UHF Duo Receiver Module)
- 8. CD Player
  - CD-800S+
- 9. Master Control Panel
  - GPA-820
  - GPA-828 (With ECHO)
- 10. UHF Audiolink Transmitter Module
  - TX-701-820
- 11. AC Power Input
- 12. Battery Cover
- 13. PU Wheels
- 14. Tripod Hole

## Controls and Operations



### A1/A2. Treble/Bass

Adjust the volume of all mixed audio inputs.  
Original audio when knob is set on the middle.

### A3. Master

Adjust the volume of all mixed audio inputs.

### A4. Voice priority indicator

Degenerate music level when MIC is in use.

### A5. Voice priority

After button pressed, LED flashes on, voice over music priority function on.

### B1. Line input volume

### B2. Line input (RCA)

### B3. Line output

### C1. AUX IN/Bluetooth volume

### C2. AUX input (3.5mm)

### C3. AUX output (3.5mm)

### C4. Bluetooth button

- Press and hold in 2 seconds to switch Bluetooth on/off and a tone sound will display.
- When Bluetooth activated, the indicator will flashes blue and ready for pairing.
- Connecting and searching Bluetooth device on your tablet device when under pairing mode. When it searched and completed, select a device named "OKAYO GPA" from pairing list and connected.
- It will have a tone sound when paired and steady light indicated on Bluetooth button. You can now streaming audio via Bluetooth.
- When a user moves out of range for the Bluetooth connection, the audio stream will be severed until the user returns to a location within range of the module. The range is about 10 metres.

### D1. MIC 2 volume

### D2. MIC 1 volume

### D3. MIC 2 input 6.3mm

### D4. MIC 1 input 6.3 mm or XLR Balanced

### E1. Battery indicator

### E2. Power switch

### F

### F1. Mic/Line switch (GPA-820 only)

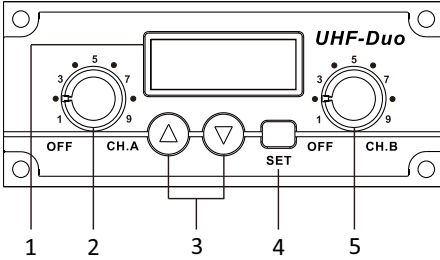
Switch signal input of (MIC 1) level or line input level.

### F2. ECHO volume

### F3. ECHO switch

For UHF receiver module or MIC input signal only.

### F4. ECHO time delay switch



1. LCD Window  
(Display Channel Number / Reception Strength)
2. Channel A  
Power Switch and Volume Control
3. Up / Down Frequency Selector
4. Frequency Set Key
5. Channel B  
Power Switch and Volume Control

## ■ Operation and Setting

### Switch on/Switch off

1. Turn "Channel A / B" knob (2) / (5) clockwise until a click occurs, then LCD window will be on and a text of "On" will appear on LCD window. After 1 ~ 2 seconds, the LCD window will show a channel number and signal strength, it means the receiver module switched-on successfully.
2. Vice versa, turn "Channel A / B" knob (2) / (5) counterclockwise until a click occurs, then LCD window will show a text of "OFF" for about 2 ~ 3 seconds. LCD window will be off after this procedure, switched-off successfully.

### Setting and Selection of Channels

Press and hold "SET" key (4) to enter the mode of selecting the channels

1. While both Channel A and Channel B are available, the channel number of Channel A shown on LCD window starts to blink. Press "Up" or "Down" Frequency Selector keys (3) to look for your preferred channel number. Press "SET" key (4) again to confirm the channel setting.
2. While only Channel A or Channel B is available, switch the channel number of Channel A or Channel B directly.
3. If you don't press any key for more than 10 seconds, it will leave the channel-switching mode with channel number kept.
4. Channel A and Channel B cannot be set with the same channel number.



### Searching for Available Channels

1. Press "Up" and "Down" Frequency Selector keys (3) simultaneously for more than 1 second, and then LCD window will show a text of SEARCH without blinking. Channel A and Channel B will be switched to available channels automatically. If there is no any channel available, the channel numbers will still remain the same.
2. Press "Up" Frequency Selector key (3) for more than 1 second, and then LCD window will show SEARCH<sub>A</sub>, Channel A would be switched to available channel automatically. If there is no channel available, the channel value would be kept the same.
3. Press "Down" Frequency Selector key (3) for more than 1 second, and then LCD window will show SEARCH<sub>B</sub>, Channel B would be switched to available channel automatically. If there is no channel available, the channel value would be kept the same.

4. Using two DR-500 wireless receiver modules simultaneously:

- Press “Up” and “Down” Frequency Selector keys (3) simultaneously on DR-500 module 1 for more than 1 second, you could find two available channels.
- Switch on two Transmitters used for Wireless Receiver Module 1 and adjust the channel number accordingly.
- Press “Up” Frequency Selector key (3) on Wireless Receiver Module 2 for more than 1 second, you could find available channel for Channel A.
- Switch on the third Transmitter used for Wireless Receiver Module 2 and adjust the channel number accordingly.
- Press “Down” Frequency Selector key (3) on Wireless Receiver Module 2 for more than 1 second, you could find available channel for Channel B.
- Switch on the fourth Transmitter. Finalize the process of four channels used simultaneously.

### Setting of Group Number and SQ Value

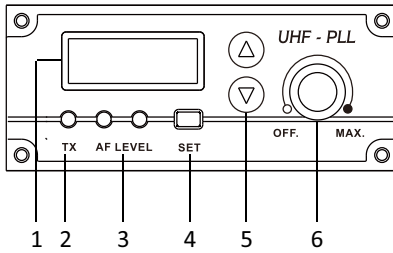
1. Press “Set” key (4) and then switch on Channel A or Channel B to enter Group setting, and then LCD window would show  (number will keep blinking).
2. Press “Up” or “Down” Frequency Selector keys (3) to look for your preferred group number.
3. Press “SET” key (4) to confirm the group setting or wait for 5 seconds to confirm it automatically and then enter setting mode of SQ value.
4. Under setting mode of SQ value, LCD window will show  (number will keep blinking).
5. Press “Up” or “Down” Frequency Selector keys (3) to choose SQ value, the value will not be set in circulation.
6. Press “SET” key (4) again to confirm the group setting or wait for 5 seconds to confirm it automatically and then back to normal switching-on mode.

### ■ CAUTION!

- Please keep the distance between the Transmitter and the Receiver more than 2 M.
- Please keep the distance between each transmitters more than 0.5M.

## UHF Audiolink Transmitter TX-701-820

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
1. LCD Window
2. TX Indicator
3. AF indicator
4. Frequency SET
5. UP / DOWN
6. Power/ Volume Knob

### ■ Operation

#### ON / OFF

Switch on the main power switch and clockwise the power Volume knob, LCD Window and TX indicator lights on (2), LCD screen display channel number within 1-2 seconds. In ON mode, switch the power off and anti-clockwise the volume knob, window shows OFF within 2-3 seconds.

#### Channel Selection

Press Frequency SET button enter into the selection mode, LCD Window will blink and shows channel , press UP / DOWN button into desired channel or quit without setting in 10 seconds. To display current used channel, simply press UP / DOWN button.

## Troubleshooting

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### Failed to Power On

- Be sure batteries are allocated and put in correct direction.
- Be sure power adapter is plugged well.

### No Sound Output

- Be sure transmitter and receiver stay at same channel.
  - Be sure volume control on transmitter and receiver are turned properly.
  - Be sure Master is turned properly.
  - Be sure Mute button is not on.
- Check if transmitter and receiver stay at same frequency band.  
Check if there is huge air interference nearby.

## Important Maintenance Guideline

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### ■ Avoid heat, humidity

DO NOT put the unit in the sunshine for a long time, or any other hot, humid environments or places with flame. Stay away from any occasions where situation mentioned above might occur. Store the unit in general indoor temperature or in cool circumstance.

### ■ Charge BEFORE you start using for the first time

After unpacking the unit for the first time, please charge the unit for about 8 hours. This is absolutely necessary as the built-in rechargeable battery might have been discharged naturally due to long transportation and storage time, even though it has been fully charged in the factory prior to shipment. To secure a longer life for battery, please MUST execute this IMPORTANT process.

### ■ Charge fully

Ensure battery is fully charged BEFORE you store the unit. To remain a longer battery life and better performance, make sure you charge the battery regularly every month.



**When you need to use the unit again after a long period of storage, make sure you charge it fully for at least 8 hours BEFORE any operations.**



**Please also charge this unit every time right after operation to secure a longer battery life.**

■ This unit has DOD (depth of discharge) protection design. When Power Switch LED flashes red which means there isn't enough electricity (when operating via the battery's power - this unit will turn off automatically in a short time secure battery from deep-discharging damage. At this moment please immediately recharge your unit, do not continue with operation.

■ This unit has protection circuit against overcharge. The circuit will stop charging when battery is fully charged even power cord is plugged.

**Useful hint: You can still operate during charging.**

### Battery replacement

- Please do use non-original battery in order to avoid defective of unit.



Get screws off



Take battery out



Get connection right –  
RED for Anode;  
BLACK for Cathode

## Specifications

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### Okayo Portable PA System GPA-820/828 Series

Output power	80W (RMS) / 120W (MAX)
Speaker	8" woofer and 1" tweeter
Audio inputs	Combo/6.3Φ-Mic in, 3.5Φ-Aux in, RCA-Line in, MIC/LINE Switch
Audio outputs	3.5Φ-Aux OUT, RCA-Line out
Receiver modules	DR-501A or DR-500, up to 2
CD Player	CD-800S+
Bluetooth Receiver	Built-in
Effects	ECHO / DELAY (GPA-828 only)
Power requirements	100~240 VAC switching power supply
Battery	12V, 4.5 Ah x 2 (Lead-Acid) rechargeable batteries)
Battery indicator	4 LEDs to indicate battery autonomy status
Operating life	4 ~ 6 hours
Charging time	6 ~ 8 hours
Dimensions(D x W x H)	264 x 301 x 511 (mm)
Weight	Approx. 16kg (35lbs), batteries included

### Wireless UHF Receiver Module DR-501A/DR-500

Receiver Module	DR-501A	DR-500
LCD window	Channel, Frequency	Channel, Reception Strength
Channel adjustment	Sync	SCAN
Carrier frequency	514 ~ 865 MHz (country dependant)	
Channels	16 ~ 96 (frequency dependant)	
Frequency modulation	30 MHz (max.)	
Ambient temperature	-10° C ~ 50° C	
Max. deviation	80 kHz, with level limiting	
Squelch	Tone key and noise lock dual-squelch	
Frequency response	70 Hz - 16 kHz	
Wireless coverage	50 ~ 70 M	

### UHF Audiolink Transmitter Module TX-701-820

Carrier frequency	514 ~ 865 MHz (country dependant)
Channels	16 ~ 96 (frequency dependant)
LCD status	LCD readout, LED indicators
Controls	set, up, down, volume
RF output	10 mW or 30 mW (country dependent)
Spurious emission	< 250 nW
Antenna	Built-in
Frequency response	70 Hz - 16 kHz
Wireless coverage	50 ~ 70 M

## Environment

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Please follow existing disposal regulations in your country. If you respect these instructions you ensure human health and environmental protection.

## Important notes

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- 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.
- Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- FCC INFORMATION
- The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:
  - The 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 instruction, may cause harmful interference to radio communication.
  - 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 or more 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.
- **IMPORTANT NOTE:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.
- Consumer Alert
- Most users do not need a license to operate this wireless microphone system. Nevertheless, operating this microphone system without a license is subject to certain restrictions: The system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone Web site at <http://www.fcc.gov/cgb/wirelessmicrophones>.

This User Guide has been edited by Bo Edin AB.

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(Univox) Bo Edin AB  
Stockby Hantverksby 3,  
SE-181 75 Lidingö, Sweden

+46 (0)8 767 18 18  
info@edin.se  
www.univox.eu

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