

# **AudioMate**

# **Wireless Digital Media System**

**HCR-102: Wireless Audio Receiver** 

&

**BRC-220: Bidirectional Remote Control** 

**VERSION 0.1** 

WAP-5000 DO NOT COPY 13-1



<u>1. IN</u>	ITRODUCTION	<u> 3</u>
2. <u>G</u>	ETTING TO KNOW THE MEDIA SYSTEM	<u> 3</u>
2.1.	CHECKING PACKAGE CONTENT	3
2.2.	GETTING STARTED	4
2.3.	IDENTIFYING COMPONENTS	5
2.3.1.	LCD Screen Layout	7
2.3.2.	STATUS ICON INDICATION:	7
2.3.3.	MENU INDICATION:	8
2.3.4.	SOFT KEYS INDICATION:	9
2.3.5.	MENU TREE OF LCD DISPLAY	9
<u>APPE</u>	NDIX	<u>10</u>



## 1. Introduction

BRC-220, a Bidirectional Remote Control is designed to work with HCR-102 audio receiver to provide long range interactive remote control function. In cooperating with standard based Bluetooth class 1 technology, BRC-220 can support more than 100M operating distance at clean open area (depending on environment configuration). The BRC-220 uses SPP profile to communicate with HCR-102 over Bluetooth.



**BRC-220 Bidirectional Remote Control** 

## 2. Getting to Know the Media System

## 2.1. Checking Package Content













4. 5V/1A BRC Power Adapter (mini USB connector)



6. CD



7. QIG



### 2.2. Getting Started

#### Connecting the BRC and HCR for First Use

- 1 Connect the power adapter to HCR and power on HCR
- 2 Connect the power adapter (with miniUSB connector) to charge BRC and power on BRC. (You should charge your new BRC when you remove it from the package)

#### Pairing the BRC and HCR for First Use

Pairing Main Menu will pop up on the screen after you turn on BRC. Select Pairing and press Enter, BRC will spend 60 seconds to search HCR nearby and list MAC addresses found. Select the MAC Address you want to pair with and Press Enter.



4 After Pairing process finish successfully, **Main Screen** will show up.



#### **Configuring Internet Connection**

5 Go to **Settings→NETWORK**, choose the Network Interface you want to enable



- 5.1 Network Interface: LAN or WLAN. (If you choose LAN, 5.2 & 5.4 will be grey out)
- 5.2 Wireless LAN Setting Wizard: Scan surrounding access points and guide users to complete wireless settings
- 5.3 IP Settings: choose Auto / DHCP or Manual / Static IP



#### 5.4 Advanced Wireless Settings

#### **Date / Time Settings**

- 6 Go to Settings→NTP / DATE / TIME to adjust date and time
  - 6.1 NTP: Network time synchronization and time zone selection.
  - 6.2 DATE: Current date setting when NTP is off
  - 6.3 TIME: Current time setting when NTP is off

#### **LISTENING TO INTERNET RADIO STATION / MUSIC**

#### **Internet Radio Station**

Go to Internet Radio >vTuner and select stations you want to play. Click Central Key to start / stop play.



#### **Music on USB Storage**

Go to **USB Storage**→**Disk** and select tracks playback. Click **Central Key** to start / pause / stop play.



The first time when you try to play USB Music, a warning message will show up to ask you to parse all media files. If you choose **Yes**, System will start Scanning-Parsing-Categorizing for all Media files on the USB Disk based on Album, Genre and Artist Category.

## 2.3. Identifying Components

#### **BRC-220**

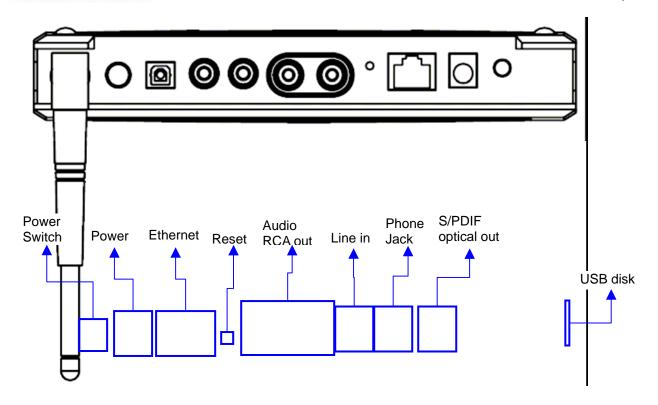




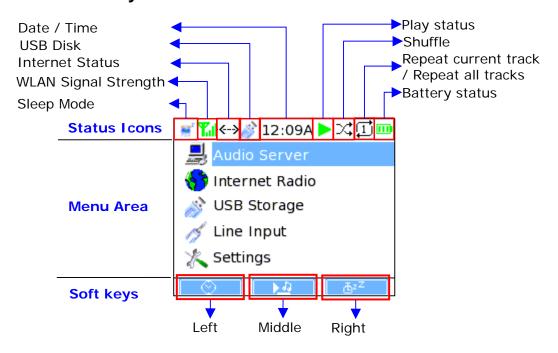
Keys		Description
		1.short pressing (1s): resume BRC if BRC is under standby mode
Power		2.short pressing (1s): toggle mute state if BRC is powered on
		3.Long pressing (3s): turn off BRC, SMR will go into stand-by
		mode
Volume + / -		Volume up / down (allow repeat key)
Soft Keys		Defined by each screen.
	UP Arrow Key	Scrolling up (allow repeat key)
	DOWN Arrow	Scrolling down (allow repeat key)
	Key	
	LEFT Arrow	1.Go to last page
	Key	2.Rewind (USB disk) (allow repeat key)
		1.Go to next page
Navigators	RIGHT Arrow	2.Forward (USB disk) (allow repeat key)
	Key	3.OK/Accept/Enter
		4.Play
		1.Play
	Central Key	2.Pause/Resume (short push: 1sec)
		3.Stop (long push 2 sec)
		4.OK/Accept/Enter

### HCR-102





### 2.3.1. LCD Screen Layout



#### 2.3.2. Status Icon Indication:

	Icon (20x20)	Description
Sleep Status	<b>₩</b>	Indicate Sleep Function is activated. When only 10 seconds
		left before system go to sleep, this icon will change to a count

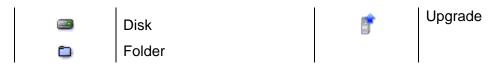


		down clock to tell user after 10 seconds some action will
		happen
	Ψ	Indicate WLAN signal strength is "Poor", RED color
MI AN Signal	Ψ.	Indicate WLAN signal strength is "Low", RED color
WLAN Signal Strength	<b>ፕ</b> i	Indicate WLAN signal strength is "Fair", ORANGE color
Sirerigin	Y.ı	Indicate WLAN signal strength is "Good", GREEN color
	机	Indicate WLAN signal strength is "Excellent", GREEN color
Internet	<>	Indicate Internet connection is established
status	<b>€1</b> >	Indicate Internet connection fail, RED color
USB disk		Indicate USB disk is plug in
Date Time	Time	hh:mm tt (12 format), / HH:mm (24 format)
	<b>→</b>	Play, GREEN color
Play Status /		Pause, ORANGE color
Mute		Stop, RED color
	Ą	Indicate SMR is set to Mute.
Shuffle	5\$	Shuffle
Popost	Ţ	Repeat single (current) track
Repeat	ţŢ	Repeat all tracks
	Ò	Indicate the battery is "Empty", RED color flashing
	Ō	Indicate the battery is "Low", RED color
Battery		Indicate the battery is "Medium", ORANGE color
Status	•	Indicate the battery is "Full", GREEN color
Giaius	Flashing	Indicate the battery is "Charging" (flashing)
		Flash in <b>RED</b> (low), <b>ORANGE</b> (medium) and <b>GREEN</b> (high)
		until flashing stops when it is fully charged

## 2.3.3. Menu Indication:

Icon (24x24pixel)	Menu Items	lcon (24x24pixel)	Menu Items
	Audio Server	Ð	Songs
<₩	Internet Radio		Playlist
<i>*</i>	USB Storage		Screen
1	Line-In	<b>₹</b>	NTP
K	Settings	22,	DATE
₩	Media Server		TIME
<b>₩</b>	vTuner	€ Z²	SLEEP
<b>~</b>	My Favoritae Stations	<b>!</b> !	NETWORK



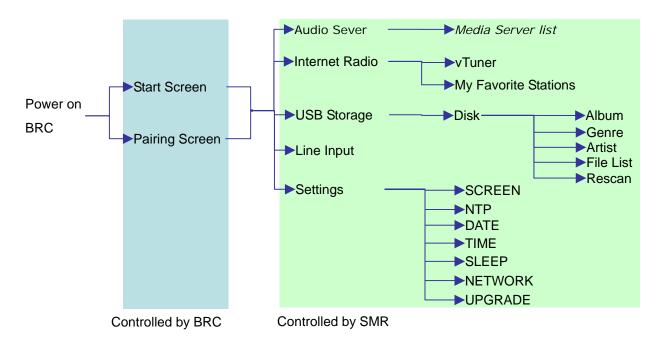


## 2.3.4. Soft keys Indication:

Icon	Name	Description
₽	Back	Back to previous layer of the current screen located
₩	Mode	More menu
<b>#</b>	Main	Go to "Main Menu" screen
Sabc	Search	Search
<u>►13</u>	Playing	Go to "Now Playing" screen
♡	Clock	Clock
₫²²	Sleep	Set Sleep Interval

Note: button will only appear when this function is available.

### 2.3.5.Menu Tree of LCD display



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# **Appendix**

## **Product Spec**

### HCR-102

Audio Output / Input			
Analog RCA outputs	TBC		
Headphone output	Green (mini phone, 3.5mm)		
	Volume control is provided		
	Digital Optical Output,		
Digital S/PDIF output	Optical connector: (TBC)		
Digital 3/FDII Output	Sample rates: (TBC)		
	Volume control is provided		
Line-in connections	Blue connector for external audio source, such as CD player		
<u>.</u>	Audio Format		
	- Uncompressed formats (WAV) (TBC, depends on customers)		
Audio Formats	- Compressed formats (MP3, AAC, AAC+, WMA) (TBC,		
	depends on customers)		
	- Quick selection from hundreds of Internet Radio streams		
	offered by vTuner		
	- Internet Radio favorites can be saved in a playlist for easy		
Internet Radio	access.		
	- Displays song title information during playback		
	- Support for MP3, and WMA formatted Internet Radio streams		
Bluetooth Radio Specifications			
	Class 1 Bluetooth v2.0		
RF Standard	Backward compatible with Bluetooth v1.1 & v1.2		
RF Frequency	2.4~2.4835 GHz, ISM band		
	WLAN:11b: 20.60 dBm; 11g: 21.23 dBm		
RF Output Power(Peak	bluetooth: 14.16 dBm		
Power)			
WLAN Radio Specifications			
WLAN Standard	IEEE 802.11b/g standard		
	Supports both WPA Personal, WPA2-AES and 64/128-bit WEP		
Security	encryption		
Antenna	3.985dBi external fix dipole antenna x 1		
	Physical Specifications		



		WLAN link and activity
	WLAN	if there is connection, full light wlan led. If there is wlan traffic,
		light wlan led but with quick flashing for traffic indication.
LED	LAN	LAN link and activity
LED		if there is connection, full light wlan led. If there is wlan traffic,
Indicator	Power1,2 4,5	BLUE when on, off when standby
	Power3	BLUE when on, RED when standby
	USB Disk	RED when BRC is connected, Off when BRC is not connected,
	BRC	RED when USB disk is attached, off if not attached
	Power switch	Turn on /off SMR
	Power Jack	For Power adapter
	LAN	For Ethernet connector
External	Reset button	Rest to factory default
Port	Line-out (L)	Analog Audio out – Left
Interface	Line-out (R)	Analog Audio out – Right
litterrace	Line-in	Audio Input from other sources
	Phone Jack	Headphone output
	S/PDIF output	Digital Optical Output
	USB port	USB disk
Dower Supply		Switch AC/DC Power Adapter. Input: 100-240VAC/60Hz,
Power Supply		Output: 5V/2.5A.
Dimension		121.98mm(W) x 29.4mm (H)x 180.00mm(L) (TBD)
Weight		TBD
ENVIRONMENTAL SPECIFICATIONS		
Temperature	Operating	0°C to 40°C (32°F to 104°F)
remperature	Storage	-20°C to 60°C (-4°F to 140°F)
Humidity	Operating	10% to 85% Non-Condensing
numuity	Storage	5% to 90% Non-Condensing

#### **BRC-220**

Bluetooth Radio Specifications		
RF Standard		Class 1 Bluetooth v2.0
		Backward compatible with Bluetooth v1.1 & v1.2
RF Frequency		2.4~2.4835 GHz, ISM band
RF Output	Power(Peak	13.31dBm (TBD)
Power)		
Physical Specifications		
Display	Туре	TFT LCD with 26K colors



	Size	2.0 inches	
	Resolution	176 (H)x 220(W) pixel	
	Active Area	31.68 x 39.6 mm	
	Pixel Pitch	0.18 x 0.18 mm	
150		OFF – when BRC-220 is powered OFF	
LED		Blinking when BRC-220 enters standby mode	
External Port Interface		MiniUSB	
Dimension		125 (L)x60(W)x16(H) mm	
Weight		125g (TBC after drop test)	
Power Supply	,	Charge via mini USB port	
Battery		3.7V 850 mAh Lithium rechargeable battery pack (built-in)	
	ENVIRONMENTAL SPECIFICATIONS		
Temperature	Operating	0°C to 40°C (32°F to 104°F)	
remperature	Storage	-20°C to 60°C (-4°F to 140°F)	
Llumidity	Operating	10% to 85% Non-Condensing	
Humidity	Storage	5% to 90% Non-Condensing	



#### **Federal Communication Commission Interference Statement**

This 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 instructions, may cause harmful interference to radio communications. 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

#### **IMPORTANT NOTE:**

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment HCR102 wireless audio receiver should be installed and operated with minimum distance 20cm between the radiator & your body.