



INSTRUCTION MANUAL

NEWHANK
DAB DAB+
FM RDS
TUNER

	<table border="1"><tr><td>CAUTION</td></tr><tr><td>RISK OF ELECTRONIC SHOCK DO NOT OPEN</td></tr></table>	CAUTION	RISK OF ELECTRONIC SHOCK DO NOT OPEN		CAUTION: TO REDUCE THE RISK OF ELECTRONIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
CAUTION					
RISK OF ELECTRONIC SHOCK DO NOT OPEN					



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

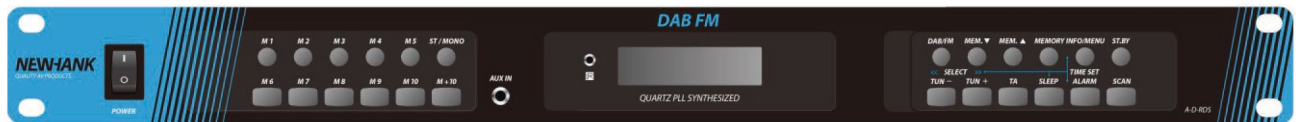


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

<p><u><i>WARNING: TO PREVENT FIRE</i></u></p> <p><u><i>OR SHOCK HAZARD, DO NOT</i></u></p> <p><u><i>EXPOSE THIS APPLIANCE TO</i></u></p> <p><u><i>RAIN OR MOISTURE.</i></u></p>

Outward Appearance

Face plate:



Rear plate:



SUPPLEMENTS:


FM Antenna Wire x 1

AV Wire x 1

Remote Controller x 1

AC Power Cord x 1

INSTALLATION:

1. Connect AV Cord to OUTPUT Terminal.
2. Connect AC Power Cord in between Socket and AC power resource in AC 230V. Or Connect DC Power Cord in DC 13.2V for emergency power supply.
3. Connect ANT. Wire.
4. Connect to Ground 

DAB DAB+ FM RDS TUNER

- ◆ POWER : Main power of the unit
- ◆ AUX IN : Connect to other audio source
- ◆ ST. BY: Press for Stand By mode.
- ◆ DAB / FM: Press to switch DAB or FM mode.
- ◆ SCAN: Radio station searching. Press SCAN, wait for 3 seconds, will automatically scan available stations. To cancel auto scan, when LCD shows SCAN, press SCAN button to cancel.
- ◆ TUN - / TUN + :
 1. In FM mode, short press to next 5 KHz frequency. Long press will auto scan to next available station.
 2. In DAB mode, select the station type. After the type is searched, LCD will show the type of station. Wait for 3 seconds, the player will transfer to selected type.
 3. In ALARM mode, to set alarm time.
 4. In SLEEP mode, to set sleep time.
- ◆ M1~M10 / M10 + / MEM.▲/MEM.▼: To play memory stations.

For play M20: press M10+ and M10, for M30: press M10+ 2 times and M10, for M30: press M10+ 3 times and M10.
- ◆ TA Traffic Announcement

Press TA, RDS will automatically search for the traffic stations. It will stop at available traffic station.
- ◆ MEMORY: Radio station memory setting.
 1. Select the radio station
 2. Press MEMORY
 3. Press MEM.▲/MEM.▼ or M1~ M10 / M+10 to assign to memory station. Up to 40 stations can be stored.

For memory M20: press M10+ and M10, for M30: press M10+ 2 times and M10, for M30: press M10+ 3 times and M10.

4. Press MEMORY again to confirm memory.
5. Repeat above steps to store more stations.

◆ INFO / MENU :

Information:

- ✓ In FM band, press INFO button, the information sequence is : the receive signal strength(RSSI) and the stereo/mono → RDS text(RT) → RDS program type(PTY) → current time → current day → RDS alternative frequency(AF) on/off.
- ✓ In DAB mode, press INFO button, the information sequence is : DAB text → DAB program type(PTY) → DAB time → DAB date → DAB receive bit rate → current frequency → DAB receive bit error

◆ ALARM Setting

1. Press ALARM
2. Press “TUN –“or “TUN +” to select ALARM ON or ALARM OFF, then press ALARM to confirm.
3. When ALARM ON, press ALARM, LCD shows “ALARM MODE”. Press “TUN –“or “TUN +” to select FM or DAB mode then press ALARM to confirm.
4. LCD shows “ALARM PRESET”. Press “TUN –“or “TUN +” to select the memory station to use for ALARM then press ALARM to confirm.
5. LCD show “ALARM TIME”. The time shows on left corner is current time. Input alarm setting time at right corner. Press “TUN –“or “TUN +” to select flashing digit. Once the digit select, press ALARM, the flashing will move to next digit. After ALARM TIME setting is completed, press ALARM to complete alarm setting.

◆ SLEEP Setting


- 1 Press SLEEP
- 2 Press “TUN –“or “TUN +” to select SLEEP ON or SLEEP OFF, then press SLEEP to confirm.
- 3 LCD show “SLEEP”. The time shows on left corner is current time. Input SLEEP setting time at right corner. Press “TUN –“or “TUN +” to select flashing digit. Once the digit select, press SLEEP, the flashing will move to next digit. After SLEEP TIME setting is completed, press SLEEP to confirm. The player will stop at setting time.
- 4 To exist SLEEP function, press SLEEP then press “TUN –“or “TUN +” to select OFF. Press SLEEP to confirm. SLEEP function is cancelled.

◆ Date & Time Setting

- 1 In STAND BY mode
- 2 Press MENU
- 3 Press “TUN –“ or “TUN +” to select flashing digit. Once the digit select, press MENU, the flashing will move to next digit.
- 4 Once the date and time input is completed, press ST. BY to confirm.

The remote control operates in a similar way to the main keypad.



Button	Function
	Standby: Turn on or back to standby mode (showing clock and date). Cancel sleep function.
SLEEP	Sleep function
ALARM	Alarm function
FM DAB	Switch to FM or DAB mode
1	Set/recall preset 1
2	Set/recall preset 2
3	Set/recall preset 3
4	Set/recall preset 4
5	Set/recall preset 5
6	Set/recall preset 6
7	Set/recall preset 7
8	Set/recall preset 8

9	Set/recall preset 9
10	Set/recall preset 10
10+	Set/recall preset 10, 20, 30
SCAN	Auto scan for radio station
ST. MONO	Switch for Stereo or Mono type
MEM	Memory setting and confirm
MEM +	Recall preset
MEM -	Recall preset
TUN -	Tuning
TUN +	Tuning
TA	Traffic announcement
AF	Alternative Frequency
INFO MENU	Information Menu

This section only for DABFM with RS232 port

RS232_DAB_Command Code								J8
The communication between computer and unit is UART.								
Start bit : 1				Data bits : 8				
Stop bit : 1				Parity bit : none				
CODE : HEX				Baud : 9600				
FUNCTION	COMMAND CODE							
STAND BY	45	31	01	FE	07	0D	0A	
SCAN	45	31	01	FE	0B	0D	0A	
ST / MONO	45	31	01	FE	13	0D	0A	
DAB / FM	45	31	01	FE	17	0D	0A	
MEM.	45	31	01	FE	16	0D	0A	
ALARM	45	31	01	FE	14	0D	0A	
SLEEP	45	31	01	FE	15	0D	0A	
TUN + / SELECT >>	45	31	01	FE	1B	0D	0A	
TUN - / SELECT >>	45	31	01	FE	1A	0D	0A	
AUTO SCAN +	45	41	01	FE	1B	0D	0A	
AUTO SCAN -	45	41	01	FE	1A	0D	0A	
MEM.+	45	31	01	FE	19	0D	0A	
MEM. -	45	31	01	FE	18	0D	0A	
TA	45	31	01	FE	1C	0D	0A	
AF	45	31	01	FE	1D	0D	0A	
INFO / MENU / PTY /DISP	45	31	01	FE	1F	0D	0A	
10+	45	31	01	FE	11	0D	0A	
KEY1	45	31	01	FE	04	0D	0A	
KEY2	45	31	01	FE	05	0D	0A	
KEY3	45	31	01	FE	06	0D	0A	
KEY4	45	31	01	FE	08	0D	0A	
KEY5	45	31	01	FE	09	0D	0A	
KEY6	45	31	01	FE	0A	0D	0A	
KEY7	45	31	01	FE	0C	0D	0A	
KEY8	45	31	01	FE	0D	0D	0A	
KEY9	45	31	01	FE	0E	0D	0A	
KEY10	45	31	01	FE	10	0D	0A	