

QA50BT

AM / FM / MP3 / WMA DIGITAL MEDIA 2-DIN RECEIVER WITH BT TECHNOLOGY











OPERATION MANUAL

Please read this user manual carefully before system connection

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Safety Precautions

To avoid the risk of damage to the unit do not expose it to rain or any type of moisture. There is no user serviceable parts inside the unit. Opening the unit up will void the warranty.

Disk Laser: This unit uses a Class 1 laser to read the information on the CD or DVD's. Service should only be performed by qualified personnel.

This unit has a normal operating temperature between -15°F (-26°C) and +140°F (60°C). Exposing the unit to temperatures outside of this range could damage the screen or the internal components.

Special care must be taken when mounting the unit as this will affect the performance of the disk mechanism. Failure to do so will result in poor performance.

For best performance, please keep the unit free of moisture or any dusty conditions. In the event that you may have exposed the unit to any of these conditions, it is best to power off the unit to avoid any internal damage.

Warning: It is both illegal and dangerous to watch videos from the front seat by the driver while the vehicle is in motion. The video function is for off-road, show car or passenger use only and is not intended to be used otherwise.



Congratulations on your purchase of this Quantum Audio head unit. Your Selection of a Quantum Audio product indicates a true appreciation of fine musical reproduction.

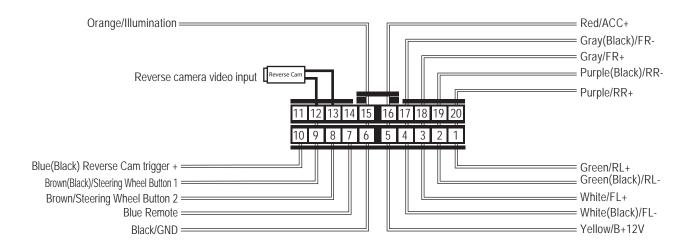
To ensure proper use of this unit, please make sure to read the owner's manual carefully before operating and keep it for future reference.

Main Features

- 1. 6.1" Wide screen TFT LCD high-definition media player.
- 2. Touch screen interface.
- 3. DVD/ Storage Device / Memory Card / FM AM Radio receiver/ BT Technology for wireless communication with phones and devices
- 4. DVD/VCD/MP3/CD/MPEG compatible.
- 5. FM/AM digital tuner with 30 memory presets.
- 6. Wireless receiver, hands-free calling.
- 7. Built-in 4 X 60W power amplifier.
- 8. Signal: 2 video output, 1 video input.
- 9. Auto-car reverse video mode: camera automatically comes on when car is shifted into reverse.
- 10. Menu function: all function are operated by OSD menu.
- 11. Display system: AUTO/PAL/NTSC.
- 12. Steering wheel control with optional module sold separately.
- 13. Auto memory savings of strongest radio stations.
- 14. Supports Memory Card/Storage Device cards to play MP3/MP4/WMA/AVI/JPEG media formats.
- 15. Picture pixel: 800*3 (RGB)*480.
- 16. Power: DC 12V.
- 17. Working Temp: 15*F ~ 140*F.
- 18. Max Current: 10A
- 19. Anti-shock function for CD/DVD

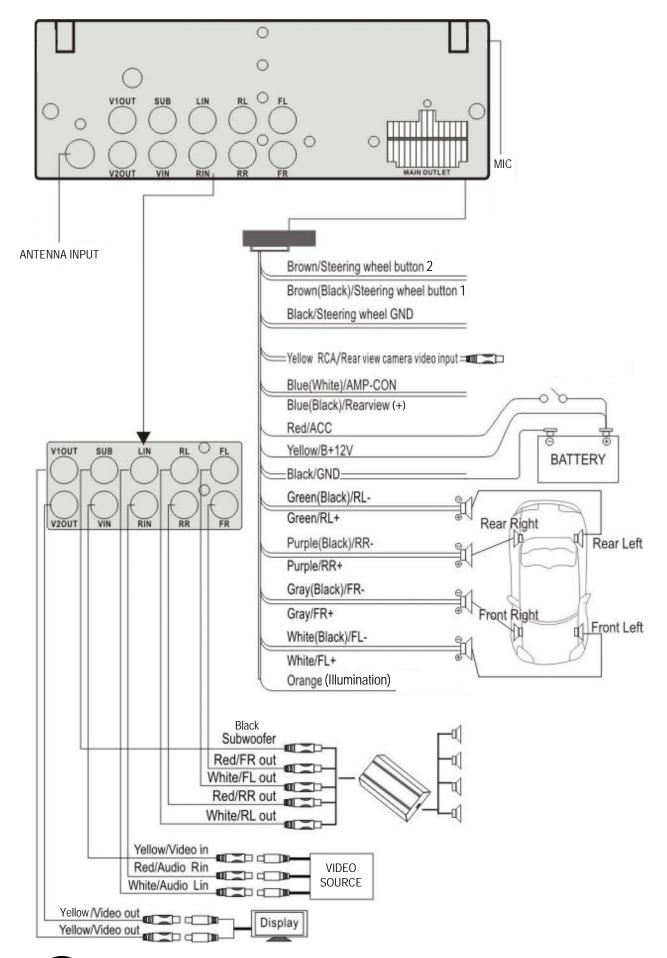


Wiring Diagram

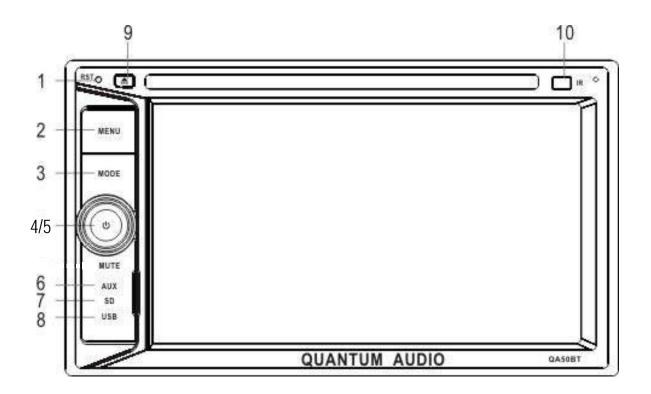


- 1. Green/RL+: Rear left audio output (positive).
- 2. Green(Black)/RL-: Rear left audio output (negative).
- 3. White/FL+: front left audio output (positive).
- 4. White(Black)/FL-: front left audio output (negative).
- 5. Yellow/B+12V: +12V battery.
- 6. Black/GND: Ground.
- 7. Amplifier remote turn on.
- 8/9. Brown/Steering wheel button 2, Brown(Black)/Steering wheel button 1: Connected to the steering wheel button.
- 10. Blue(Black) Reverse camera positive (+) trigger.
- 12/13. Rear view camera video input. Rear view camera Black/Steering Wheel GND.
- 15. Orange/Illumination: Headlight control
- 16. Red ACC (+)
- 17. Gray(Black)/FR-: Front right audio output (negative).
- 18. Gray/FR+: Front right audio output (positive).
- 19. Purple(Black)/RR-: Rear right audio output (negative).
- 20. Purple/RR+: Rear right audio output (positive).









- 1. Reset button.
- 2. MENU button: The menu switching.
- 3. MODE button: The mode switching.
- 4/5. PWR/MUTE dial button: Short press to turn on, when the radio is powered on. Long press to turn off; while radio on, short press is mute. Rotate the button left and right to adjust the volume.
- 6. AUX: Audio auxiliary input jack under cover.
- 7. Memory Card slot under cover.
- 8. Storage Device card slot under cover.
- 9. Eject/Enter the disc.
- 10. Remote control window.

Connect To Storage Accessories

Connecting With Storage Device

- 1. Under power on mode, click the Storage Device icon in the main interface. It will play the Storage Device files.
- 2. It will display "Storage Device READ", then play the file.
- 3. Pull out the Storage Device when you want to stop playing.

If there are some files in the memory card that can't be played, please delete them, then re-connect to the unit to read the file.

Connecting With Memory Card

- 1. Under power on mode, click the Memory Card icon in the main interface. It will play the Memory Card files.
- 2. Pull out the Memory Card card when you want to stop playing.



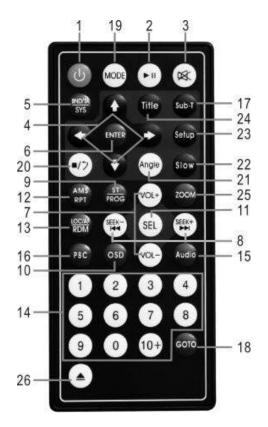
Remote Control Operation

General Remote Control Functions

- 1. Power: Press this button to turn on/off the unit.
- 2. Play/Pause
- 3. MUTE
- 4. Cursor direction key to move around: fast forward/rewind, Move up/Down, press direction cursor to select the file
- 5. In radio mode, press to select band. In TV mode, press to select system. In other mode this button is invalid.
- 6. Enter
- 7. Volume: VOL+/VOL-
- 8. SEEK- / SEEK+: Previous/next

Special Key In Functions

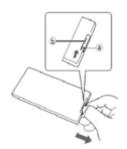
- 9. DVD Programming
- 10. OSD: Press it to display disc information.
- 11. SEL: Displays sound adjustment functions
- 12. AMS/RPT DVD mode: Press to Loop broadcast, RADIO/TV mode: Press to search channel.
- 13. Under CD mode: Press to shuffle
- 14. Number pad.
- 15. Audio mode
- 16. Switching sub menu
- 17. Subtitle on/off (some discs do not support this function).
- 18. Anycast title, chapter, audio, subtitle
- 19. MODE: Press to toggle through different audio/video sources.
- 20. Stop Button
- 21. Angle button: not applicable for model (QA50BT)
- 22. SLOW: slow forward/slow playing.
- 23. SETUP: DVD system setup.
- 24. TITLE: Return to DVD main menu.
- 25. ZOOM: Press to zoom or shrink picture display.
- 26. Eject button: Press to eject the disc .



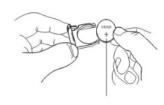


Replacing The Battery

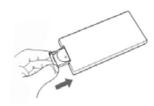
1. Identify location A and B on the diagram to access battery, press pin A towards B, and pull out the battery holder.



2. Remove the old battery, then insert the new battery into the battery holder with the + side facing upwards. Lithium battery (Cr2025)



3. Push the battery holder back into its place until it locks firmly in place.



Note:

To prevent leakage of fluid from the lithium battery, remove the battery when not using the remote control unit for long periods of time (one month or more). If the battery leaks fluid, carefully wipe it out of the battery case, then change with a new lithium battery.

Basic Operation

1. Power on /off

Press the "Power on /off" button on remote control to turn power on. Press button again to turn off the unit.

2. PLAY/PAUSE

On normal play disc mode, press "PLAY/PAUSE" button to pause. Press button again to continue playing.

3. STOP

In play mode, press "STOP" button to stop play. Press "PLAY" button to resume playing.

4. DISC IN /OUT

Press the "EJECT" button to eject disc. Insert disc into disc slot until unit automatically retrieves disc.

5. MUTE Control

Press "MUTE" button on remote control to turn off the sound. Pressing it again will resume play at the previous volume level. Note: Some functions do not work during mute operation.

6. Function mode switch:

Press "MODE" button to toggle through different audio/video sources.

Note: If no source is available, radio will not toggle through modes.

7. Press "I< or >I " In DVD mode, short-press for previous/next item, long-press for fast forward/fast back; In TV mode, short-press for previous/next channel, long-press for manual search forward up/down; In FM mode, short-press to adjust radio frequency, long-press for manual search forward up/down.

8. OSD:

Press the "OSD" remote control key, the screen will display elapsed time, remaining time, title, chapter, section time, time remaining chapters.



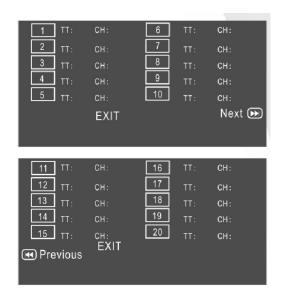
Touch Screen Menu And Operation continued

- 9. Select the subtitle
- 10. Press "Sub-T" to select different subtitles inherent in DVD disc.
- 11. Press "ZOOM" button: The picture will change in order from 2X, 3X, 4X,1/2,1/3 and 1/4 of normal size. Note: USB/SD within video and photo can be magnified or narrowed
- 12. Press "SLOW" button on the remote control to slow playing. Change the playing speed to 1/2, 1/4,1/8, and 1/16 by pressing "SLOW" button.
- 13. During playback, press the "AUDIO" voice button to change audio languages on the DVD disc. Note: Some discs do not support this function.
- 14. "GOTO" chooses play button. Press it to play information shown on screen. Use cursor button on the remote control to choose disc title, chapter or time, then press "ENTER" button to play.
- 15. The main unit may auto play in the order of the title list, chapter or set list. Pressing the "ST/PROG" button will display the menu on the screen.

Hint: TT is for Title, CH is for Chapter of DVD disc. DVD disc is divided into several parts called Title. Then title is divided into chapters. Normally one movie will correspond to one title. CD disc is divided into several items.

Use the the and number button, to input the corresponding title, chapter, same as the picture showing:

Use two move cursors to "play", press "enter" button, the unit starts playing on the program list. Press "Play/Pause" button or choose "Exit" button, and or press "enter" to exit.



NOTE:

- (1). The program list will be canceled when the main unit is powered off or the disc is ejected.
- (2). There is no program function for some discs.
- (3). The unit will not play item on the list if item selected does not exist in the disc.



Main Interface

Once powering on the unit, it will automatically enter into the main interface as shown below.

- 1. Touch icon to turn off screen display. Touch anywhere on screen to turn display back on.
- 2. WALLPAPER: THEME.
- 3. DVD mode
- 4. STORAGE DEVICE: Memory signal input mode, (Must have
- STORAGE DEVICE in slot to select)
- 5. MEMORY CARD: Memory signal input mode, (Must have MEMORY CARD in slot to select)
- 6. AV IN: AV signal input mode.
- 7. RADIO: radio mode
- 8. AUX: Audio signal input mode.
- 9. BT TECH: BT Technology function.
- 10. SETUP: Setup menu.
- 11. CALENDAR: Check calendar.
- 12. STEERING: Learn function for steering wheel control. Module sold separately.



Radio Tuner

Press "mode" button to switch, or touch the "RADIO" icon on the main Interface to enter the RADIO tuner.

- 1. AMS: Hold 3 seconds for auto music search.
- 2. BAND
- 3. EQ.
- 4. Tuner sensitivity.
- 5. Mute.
- 6. Automatic search.
- 7. Radio Bands.
- 8. Radio frequency.
- 9. Radio tuning back
- 10. Radio tuning forward
- 11. RADIO memory frequency, hold for 3 seconds to save.





Disc Mode Interface

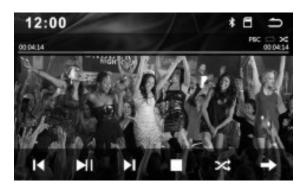
With the disc in the unit, press the "mode" button to switch to the disc, or touch the "DVD" icon on the main menu display and the disc will play automatically.

In any mode, once you insert the DVD disc, radio will automatically switch back to DVD mode.

Note: Different disc have different interface. (some discs do not support all interface functions).

I Previous/Next.
I Pause/play.
I Stop playing.
I Shuffle
I Next page.

Note: Touch the bottom half of the screen to display "Actions" menu. Click any open screen area to have "Actions" menu dissappear.



Memory Card/Storage Device Interface

With the "Storage Device" or "Memory Card" inserted, press "mode" button to switch to, or touch the "Storage Device"

or "Memory Card" icon on the main interface to enter the "Storage Device" or "Memory Card" mode. Radio will autoplay mode selected.

- 1.Video
- 2.Music
- 3.Movies
- 4.Pictures



When playing "Storage Device" or "Memory Card" card, Touch the DVD menu arrow keys to move the cursor to the file bag, file, MP3 or JPEG icon you want, then press to confirm the selection. The selected file will automatically play. To play JPEG photo files, touch to select the current picture. To exit picture playback, press the stop button.

Pull out the "Storage Device" or "Memory Card" when you want to stop playing. Radio will automatically select last source mode to play.

AV IN Interface

Press the remote control "mode", select display picture, or icon on the touch screen to enter the AV IN mode





BT Technologies (Wireless communication with phones and devices) Interface

Press the remote control "mode", select display picture, or icon on the touch screen to enter the BT Technology mode, see the picture below.

- 1. Main menu.
- 2. Number Pad.
- 3. Delete button: Delete numbers entered.
- 4. Dial button: Answer or make phone call.
- 5. Hang up button: End the call or refuse the call.
- 6. Switching equipment.
- 7. BT Technologies main menu.
- 8. Call history.
- 9. When playing songs via bluetooth, press button for pause and play.
- 10. BT Technologies phone book.
- 11. Search and select connection to BT Technologies device.
- 12. Equalizer.



Calendar Interface

Press the remote control "mode", select calendar display picture, or icon on the touch screen to enter into Calendar mode. See the picture below.

Last month / next month





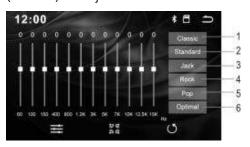
Audio/Video Menu Setup

From main menu, press SETUP button, touch "\Rightarrow "button to enter into "AUDIO" menu setup interface.

EQ Adjustments

- 1. Classic (Preset)
- 2. Standard (Preset)
- 3. Jazz (Preset)
- 4. Rock (Preset)
- 5. Pop (Preset)
- 6. Optimal (Preset)

(Picture 1) EQ Adjustments



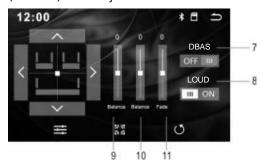
Audio/Video Menu Setup

From "AUDIO" menu setup interface, touch " button to enter into "AUDIO" menu setup interface.

Audio Adjustments

- 7. DBAS: Heavy bass volume switch
- 8. LOUD: High volume switch
- 9. VOL: Volume adjustment
- 10. TRE: Treble adjustment.
- 11. BAS: Bass adjustment.

(Picture 2) Audio Adjustments



Under SETUP mode, touch " **!** button to enter into "VIDEO" menu setup interface.





- I. ASPECT RATIO: Touch the "I< or >I" icon on the screen to adjust.
- 2. BRIGHTNESS: Touch the "I< or >I" icon on the screen to adjust.
- 3. CONTRAST: Touch the "I< or >I" icon on the screen to adjust.
- 4. SATURATION: Touch the "I< or >I" icon on the screen to adjust.
- 5. HUE: Touch the "I< or >I" icon on the screen to adjust.
- 6. STANDARD MODE: Constant; not adjustable.



SYS System Settings

With radio powered on, press the "SETUP" on the main menu interface or remote control. System setup interface displays Video setup, Audio setup, Language setup, Calibration, Steering setup and Reset.

DVD controls and operations are the same as previously discussed for Audio/ Video setup. (Page 13)



Language settings

Built-in multinational language options

(English/Portuguese/Thai/Russian/Arabic/Chinese/French/German/Polish/Italian/Spanish/Hebrew).

Touch desired language icon on screen to make selection.

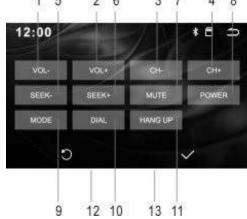
Touch screen calibration

Follow the prompts and touch the center of "+" sign to adjust touch screen accuracy.

Steering operate

To set up steering wheel keys, please long-press the buttons of the car's steering wheel and then touch the function keys of the unit to sync. (Function may not be compatible with all vehicles)

- 1/2. Volume adjustment.
- 3/4. Channel selection
- 5/6. Previous/ Next.
- 7. Mute.
- 8. Power
- 9. Mode.
- 10. Dial.
- 11. Hang up button: End the call or refuse the call.
- 12. Reset: Are you sure you want to reset all settings? Pressing the "OK" button will resume with factory settings.
- 13. Save.





Function Index Sign

FM	FM Frequency range	87.5~108.0MHZ
	Noise limit sensitivity	15dBu
	S/N Ratio	50dBu
	Antenna resistance	75Ω
AM	AM Frequency range	530~1710KHZ
	S/N 30db	35dBu
	S/N Ratio	40dBu
	Antenna resistance	75Ω
AUDIO	S/N Ratio	80dBu
	Max output power	60W*4CH
VIDEO	Video output scope	1+/-0.2V
	Video Horizontal Resolution	≥600

Warning

- 1. To ensure the accurate of touch function, please touch the center point of relative function.
- 2. To guarantee accuracy of touch screen, we recommend only using your fingers. Oversized objects will reduce accuracy.
- 3. To ensure the safety of our panel, please do not press or use a sharp object to control the panel.
- 4. Playing defective disks, may damage the capability of the DVD playback.
- 5. Be sure to distinguish red 12V positive (+) and black negative (-) when connecting the power. If connected wrong, the fuse will fail. Please take note to replace the failed fuse with a fuse of equal value.
- 6. Yellow battery 12V (+) is best to connect to a fused 12V (+) to prevent from the under-voltage drop the may influence the normal performance of the monitor.
- 7. Do not expose the unit to moisture, extreme heat, dust, smoke or sharp objects.



Trouble Shooting

DDOD! EM	OALICE	COLLITION
PROBLEM	CAUSE	SOLUTION
Does not power on	Check whether power fuse is open	Replace fuse with same value.
	Some factor caused MCU error in operation	Press RESET button on front panel
Radio station preset memory loss	Wrong connection between ignition line ACC and 12V	Reconnect line
Remote control does not respond	Remote battery low on power	Replace battery on remote control
Poor reception of radio station	Loose antenna connection or poor	Check whether antenna is connected or
	grounding of antenna	not.
Cannot play disk	Disk is scratched.	Try new disk
	Disk may be inserted backwards	Insert the disk with label side up
	Disk is dirty.	Clean disk
Cannot switch language/subtitle	There is only one language/subtitle in dish	If disk is not with multi-language/subtitle, it
		cannot switch language/subtitle
No video image	Video signal may be disconnected	Check all video cables





