LCD Color Monitor
User's manual

1. Precautions

1. Storage
1)Keep this product away from extremely hot or cold places. The storage temperature ranges from -40℃ to 60℃ and the working temperature from -5℃ to 40℃.
2)Do not use this product at damp environment like bathtubs, wash basins, kitchens, washtubs, as well as basements, swimming pools or similar places.
3)Do not expose this unit to high humidity, dust or oil smoke.
4)Do not throw or drop this product.
5)Do not subject this device to the inside of a case or strong vibrations, avoiding strong collision.
6)Do not push on or scrub this product with sharp objects.

2. Maintenance
1)Disconnect all cables of this device at first before cleaning.
2)Wipe the enclosure, screen and keys using soft cloth with a little soft detergent on.
3)Do not use polishing cloth, abstergent, and all types of propellants or chemical detergents like alcohol and benzene to clean your device.

Warning!
1)For the sake of safety for yourself and others, please don't watch or turn on the monitor during driving.
2)It is very dangerous to watch or operate the monitor while driving.
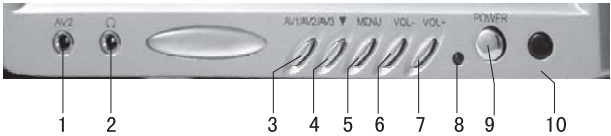
Special Notice
Bright spots or dark spots may appear on the screen. This is a normal phenomenon associated with the active matrix display technology and is not a sign of malfunction. Do not attempt to maintain. For any failures, please turn off the unit immediately and contact us or local dealer. This device integrates a great deal of fine electronic components. Disassembly or alternation may result in damages or breaks.
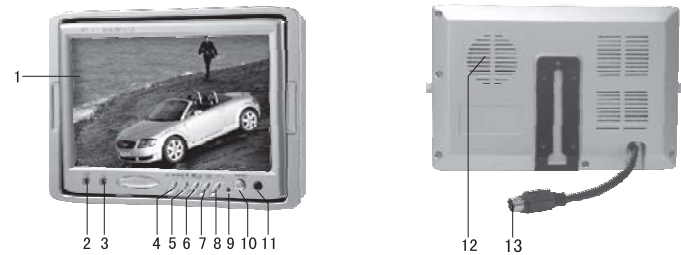
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2. Accessories

Open the package and make sure all the accessories are included.

1. AV and power supply conversion line
2. Automobile adapter
3. AV conversion line
4. Remote control

3. Appearance

1.TFT-LCD Screen
2.AV2 Input
3.Earphone Jack
4.AV1/AV2/AV3 Shift
5.Down Select
6.Menu
7.Volume decreases, analog quantity selection -
8.Volume increases, analog quantity selection +
9.Power indicator
10.Standby/Exit game
11.Remote receiving window
12.Loudspeaker
13.Audio / Video / Power / Car-backing Connection Terminal

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4. Remote Control Operation

● VOL - / + (Volume adjust):
Press VOL - , the volume of Display decreases.
Press VOL + , the volume of Display increases.
● CH+/-: Channel Select (Downward/Upward) Button.
● MODE (Mode): Press this button, users can realize the five picture statuses of Standard, Soft, Vivid, light and Personal.
● POWER(Standby/Exit game): Press this button to switch from "Standby" mode and "ON". while playing game, press to exit playing.
● MUTE (Mute): Press this button, sound disappears, press it again or VOL+ to resume normal sound.
● CALL (Call): Press this to display current locating signal channel condition.
● TIMER: Time setup of sleep off, it is used to set the time off within 120 minutes.
● LANG: Press to switch multi-language OSD menu such as English, German, French, Spanish, Italian and Russian etc.
● CALE: Press this button to show Year, Month, Day and Week. Press CH-/CH+to adjust the Year, press VOL-/VOL+ to adjust the Month.
● AV: Press to shift AV mode.
● ↔ : Press this button to flip the picture horizontally.
● ↕ : Press this button to flip the picture vertically.

5. Basic Operation Methods

● Basic interface connection

5.1. Connection Method of AV Conversion Line
1) Hold the 8-core AV conversion line, align the side of jack marked with "⇨" on conversion line with the side of jack marked with "⇨" on AV conversion line of the Display and insert accordingly

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① Yellow line for Video 1 input
② Red line for Video 3 input
③ White line for Audio input
④ In-socket power supply 12-24V input
⑤ Single black wire connects to the positive current of backup light).

2)Align the small end of AV conversion line with the AV2 jack on front panel of the Display, and just connect the external input video with the yellow line and the audio line with the red or white line.

5.2. Connection Diagram of Visible Car-backing:
The display system automatically locks up at Video 3 when backing the car and it resumes to normal status at the end of backup.

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Basic Display Operation Methods
1. Connect with power supply and turn on power by pressing POWER.
2. Adjust the volume.
3. Connect the monitor to external AV, the single black wire of power cord to the positive power supply of backup light, and the car-backing video output terminal to the red AV3 line of the display.

1.AV2 INPUT
2.Earphone Jack
3.AV1 / AV2 / AV3 Shift
4.Down Select
5.Menu
6.Volume decreases
7.Volume increases
8.Power Indicator
9.Standby/Exit game
10.Remote receiving window

Caution: When backing vehicle, if the black single wire connects to the positive pole of backup light, the Display switches to AV3 automatically and displays the character of Back up.

6. Menu Operation

Press MENU to display options as follows:
PICTURE   SYSTEM   OPTION   CLOCK

6.1. PICTURE
CONTRAST, BRIGHT, COLOR, SHARP and TINT displays on the screen as below:
Press Ch▲ or CH▼ to select the item CONTRAST:

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Press VOL+ or VOL- is to adjust the analog quantity of CONTRAST.
Press CH▲ or CH▼ in turn is to select BRIGHT, COLOR, SHARP and TINT, and also press VOL+ or VOL- can adjust the analog quantity of BRIGHT, COLOR, SHARP and TINT.
Note: Only when displaying the picture of NTSC system, it will show the character of TINT in the Picture menu.

6.2. SYSTEM
INPUT, COLOR-SYS, BLUE BACK, LANGUAGE and GAME displays on the screen as below:
6.2.1. Press CH▲ or CH▼ to select the item INPUT:
Then press VOL- or VOL + to shift the picture from AV1→AV2→AV3 or vice versa.
Then press VOL- or VOL + to shift the picture from AV1→AV2→AV3 or vice versa.
6.2.2. Press CH▲ or CH▼ to select the item COLOR-SYS:
Then press VOL- or VOL+ to revolve the screen in order of AUTO, PAL and NTSC. Please choose carefully the correct system, otherwise, it may cause achromatic or inferior color. It is recommended to select on AUTO position.
6.2.3. Press CH▲ or CH▼ to choose BLUE BACK:
Press VOL- / VOL+ can realize the ON / OFF of BLUE BACK under no signal.
6.2.4. Press CH▲ or CH▼ to select the item LANGUAGE:
Press VOL - / VOL can realize selection of ENGLISH, GERMAN, FRENCH, SPANISH, ITALIAN and RUSSIAN etc OSD menu language.
6.2.5. Press CH▲ or CH▼ to select the item GAME:
Press VOL+ or VOL- on remote controller to enter into GAME, press VOL- to move leftward, VOL +, rightward, CH▼, quick downward, and CH▲, rotate the game by 360 degrees, press POWER is to exit game and resume to picture status.
Note: You can only play the Game with remote controller.

6.3. OPTION
HORIZONTAL,VERTICAL and ZOOM modes will display on the screen as below:
6.3.1. Press CH▲ or CH▼ to choose the item HORIZONTAL:
Press VOL- / VOL+ can realize HORIZONTAL, and press again is to resume the picture.
6.3.2. Press CH▲ or CH▼ to choose the item VERTICAL:
Press VOL- / VOL+ can realize VERTICAL, and press again is to resume the picture.

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6.3.3. Press CH▲ or CH▼ to choose the item ZOOM:
Press VOL - / VOL+ can realize selection of picture mode: 4:3 mode and 16:9 mode.
6.4. CLOCK
TIME, ON-TIME, OFF-TIME and ATTENTION will display on the screen as below:
Press VOL- / VOL+ to set up CLOCK.
Press VOL-/VOL+ set ON-TIME then press CH▲ or Ch▼ to select OFF-TIME , and set it. You can time on/off the monitor.
Adjustment of other items is the same as that of TIME , and setup of CLOCK for all items is 24 hours at the most.
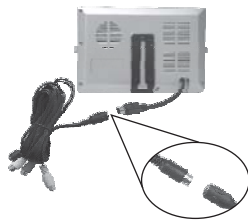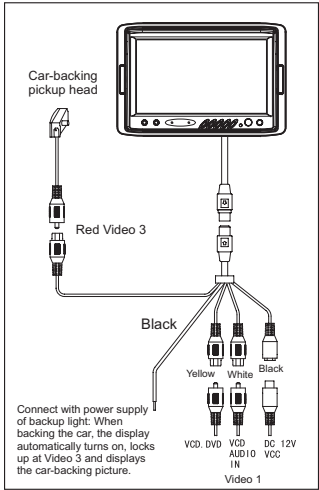**Notes:** Set up the item of Time first then other item can be set.

7. Before you request for repair

Phenomena below are not necessary mean failure with Monitor.
Please check off per following methods before you request for repair.

Phenomena	Possible Causes
No picture, no sound	Improper connection with Automobile adapter. Use of unauthorized power supply. Power Switch is on OFF position.
No picture	Check whether AV line is plugged well.
No sound	Whether audio line is connected well, or the sound volume is turned off till minimum.
Dark picture	Whether Brightness and Contrast adjusted correctly; Whether environment temperature too low.
No color	Whether color is well-adjusted
Upside down or lateral inverted picture	Maybe improperly adjusted Up / Down, Left / Right in the remote controller.
No car-backing function (i.e. Picture)	Whether the single black AV wire connecting to the positive power cord of backup light is loose or not. Whether the connection head of red AV socket is of poor contact.

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8. Technical Parameters

Product: LCD Color Monitor
Display Device: Color TFT-LCD
Screen Size: 7 inches
Audio Output: 0.8W (MAX)
Loudspeaker: one 4.5cm round loudspeaker
Connecting Terminal: Earphone jack, audio / video (AV) input jack, external power supply input jack, backup connection terminal
Application Power Supply: Car battery (12-24V) Automobile adapter
Power Consumption: about 5W
Outer Dimension: W 200mm × H 133mm × T 38mm (incl. frame)
Weight: 540g (incl. Frame)
Resolution: 1440 (H) × 234 (V)
Contrast: 300:1
Brightness: 200cd/m^2
Visible Angle: U: 40/D:60   L/R: 60

Warning

No repairable components exist in the machine. Don't try to dismantle and improve the unit, and the high voltage in the machine may cause danger. Maintenance and adjustment of the unit is subject to professionals.

This operation instruction is only intended for reference. No further notice is available to any modification of all information contained therein.

【 ☑ after some items in this manual means it is available with this function. 】

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