

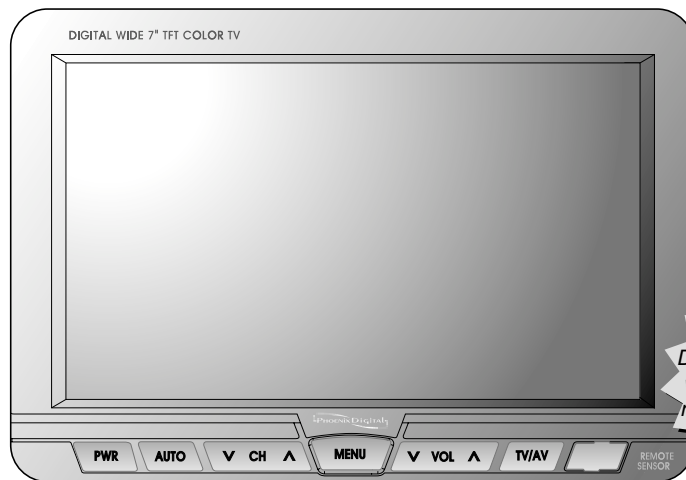
PD-180

DIGITAL WIDE 7" TFT COLOR TV

OWNER'S MANUAL

Serial No.:

Model No.:



Warning! I

*Do not watch TV
while vehicle in
motion it can be
hazardous.*

Before operating the unit, please read this manual carefully and completely, and retain it for future reference.

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1. Products Standards and Features

■ Products Standards

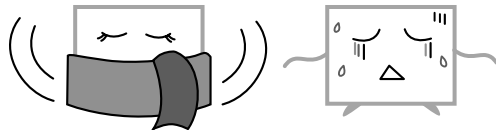
Item	Features
Power	12 Watt
Consumption	152.4(W)x91.4(H)mm
Resolution	384,000PIXEL
Number of Colors	262.144COLOR
Viewing Angl	80°(H), 53°(V)
Frequency	NTSC(60HZ)
TV Reception Sensitivity	46 dB
VIDEO IN(composite)	1V pp
S-Video IN	1V pp
Audio out(ERP)	1W (1kHz,8 ohm)

■ Products Features

- Panasonic digital wide 7" TFT color LCD
- TV tuner and monitor integrated into one unit with a high sensitivity PLL synthesizer tuner
- On-screen display (OSD) function to enhance convenience
- Convenient remote control
- High-speed automatic channel memory function
- Manual channel search function
- Input of high resolution DVD video and audio (input of S-VIDEO)
- External stereo audio input
- External stereo headphones function
- Automatic video signal reception between NTSC and PAL.

2. Cautions

1. Use this product at the temperature of 0°C ~ 50°C.



2. Do not use this product at the dusty or humid places.



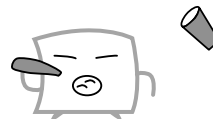
3. The screen may be little dark when you first operate in low temperature. (It will return to the original brightness in several minutes)



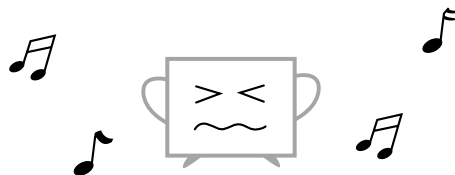
4. Do not touch the LCD panel but softly wipe out with soft clothes.



5. Foreign materials such as water and beverage may result in failure of operation.



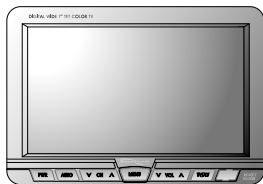
6. If you install this in the car, make sure to set the volume so that you can hear the sound outside the car in order to prevent the accident.



7. If you use this in the car for long period of time while you turned off the engine, the battery may be discharged. Make sure to use this after turning on the engine.



3. Components



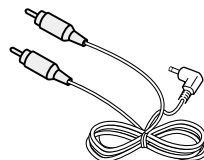
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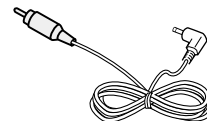
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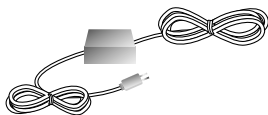
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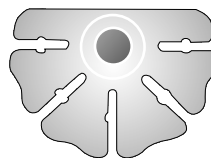
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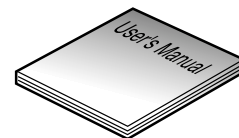
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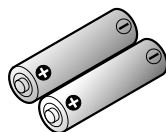
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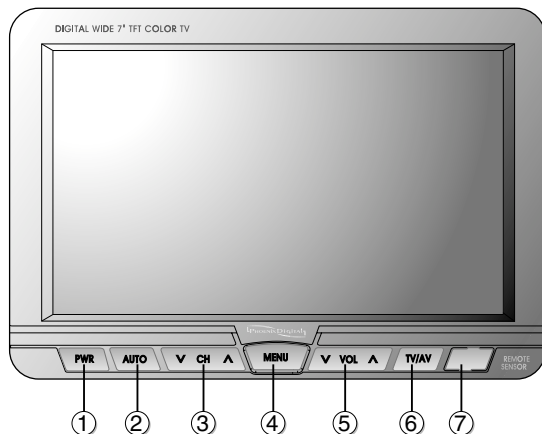


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1. Body
2. Infrared Remote control
3. In-CAR Booster Antenna
4. AV Cable(Audio)
5. AV Cable(Video)
6. AC Adapter
7. DC Liquter Adapter
8. Mounting Bracket
9. Owner's Manual
10. 2AAA Batteries
11. Interior Antenna

4. Name and Standard of Each Part

■ Main Frame



① Power Button

Used to turn the TV on or off.

② AUTO Button

This button is used to automatically memorize TV channels. "AUTO" is displayed on screen when the button is briefly pressed. By pressing the Channel up/down button, users can select memorized channels. "AUTO" disappears when the button is pressed again. Channels can be selected manually with the Channel up/down button.

③ Channel Selection Button

Changes TV channels by moving the button up and down. Press AUTO Button to automatically select memorized channels.

④ Menu Button

Menu Button :Control the every kind of function.
When press the button, change the menu from.

Image menu: Channel menu and Input menu-sound menu.(Refer to separate description)

⑤ VOLUME Control Button

When pressed, "ADD" is displayed on the right top of the screen and explanations on use of ◀ ▶ are displayed on the bottom. By using the left and right keys, the current channel can be added or erased. Press Up and Down keys to execute the command displayed.

⑥ TV/AV Selection Button

By pressing this button, users easily change the screen menu from TV to AUX-VIDEO and S-VIDEO.

⑦ Remote sensor

Remote sensor

■ Description of Menu Function

IMAGE MENU

BRIGHTNESS	50
CONTRAST	52
SATURATION	37
HUE	51
EXIT	

|||||||-----

SELECT ▲▼ CONTROL ▲▼

BRIGHTNESS

CONTRAST

SATURATION

HUE

EXIT

CHANNEL MENU

CHANNEL	12
ADD/ERASE	ADD
AUTO/MANUAL	AUTO
AUTO SCAN	
FINE TUNING	0
EXIT	

|||||||-----

SELECT ▲▼ CONTROL ▲▼

CHANNEL

ADD/ERASE

AUTO/MANUAL

AUTO SCAN

FINE TUNING

EXIT

- **MEMORY button:** When pressed, “ADD” is displayed on the right top of the screen and explanation on Use of are displayed on the bottom. By using the left and right keys, the current channel can be added or erased. Press Up and Down keys to execute the command displayed, pressing the “DISPLAY KEY” or select “EXIT”, users can select the menu or quit. By pressing Remote Controller button once more, users easily change the next screen menu.

- **CHANNEL:** Use the right and left key, users can select and confirm every channel.
- **AUTO MANUAL:** Select the memory channel automatically.
- **MANUAL:** Selection of the on air.
- **AUTO SCAN:** This button is used to automatically memorize TV channels. Quit the menu when stop halfway Auto Scan by pressing the up/down button.
- **FINE TUNING:** Control the channel minutely.

■ Description of Menu Function

INPUT MENU

TV	NO
AUX VIDEO	YES
S-VIDEO	NO
EXIT	

■■■■■■■■■■-----

SELECT ▲▼ CONTROL ▲▼

TV

AUX VIDEO

S-VIDEO

EXIT

SOUND MENU

VOLUME	23
BASS	43
TREBLE	23
BALANCE	0
FM TX(MHz)	88.6
EXIT	

■■■■■■■■■■-----

SELECT ▲▼ CONTROL ▲▼

VOLUME

BASS

TREBLE

BALANCE

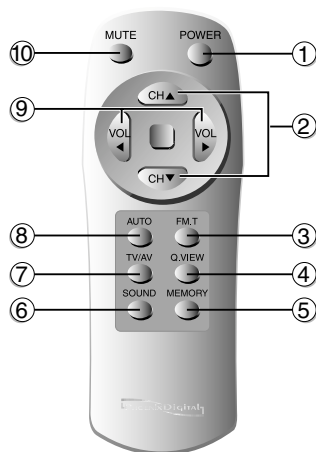
FM TX(MHz)

EXIT

Select the source pressing ▲ ▼ and press ◀ ▶ to choose the menu. The screen changes and video displays if "Yes" is selected with the relevant source and the rest are changed to "No." AUX VIDEO can be used by connecting GPS, VTR, VCD, OCD CAMERA and DVD, S-VIDEO is used when playing DVDs.

By controlling the Volume, Treble and Bass provided on the menu, users can enjoy the highest sound quality. To control Balance, press ◀ ▶. Then, symbols from 0 to -XX and +XX are displayed, -XX turns down the volume on the right-hand side, and +XX turns down the volume of the left-hand side. By pressing ◀ ▶ from the SOUND, FM channels can be selected.(88.0MHz~89.6MHz, 200kHz SET UP)

■ Remote Controller



① Power Button

Used to turn the TV on or off.

② Channel Selection Button

Changes TV channels by moving the button up and down. Press AUTO Button to automatically select memorized channels.

③ FM Transmitter Button

By pressing this button, users can listen to TV audio through a car audio system. To do this, set the frequency of the radio to the frequency displayed on the screen. The frequency ranges between 88.0MHz~89.0MHz, in 200kHz increments.

④ Q. VIEW Button

Returns to the previous TV channel.

⑤ MEMORY Button

When pressed, "ADD" is displayed on the right top of the screen and explanations on use of ◀ ▶ are displayed on the bottom. By using the left and right keys, the current channel can be added or erased. Press Up and Down keys to execute the command displayed.

⑥ SOUND Button

Press to display current sound level.

⑦ TV/AV Selection Button

By pressing this button, users easily change the screen menu from TV to AUX-VIDEO and S-VIDEO.

⑧ AUTO Button

This button is used to automatically memorize TV channels. "AUTO" is displayed on screen when the button is briefly pressed. By pressing the Channel up/down button, users can select memorized channels. "AUTO" disappears when the button is pressed again. Channels can be selected manually with the Channel up/down button.

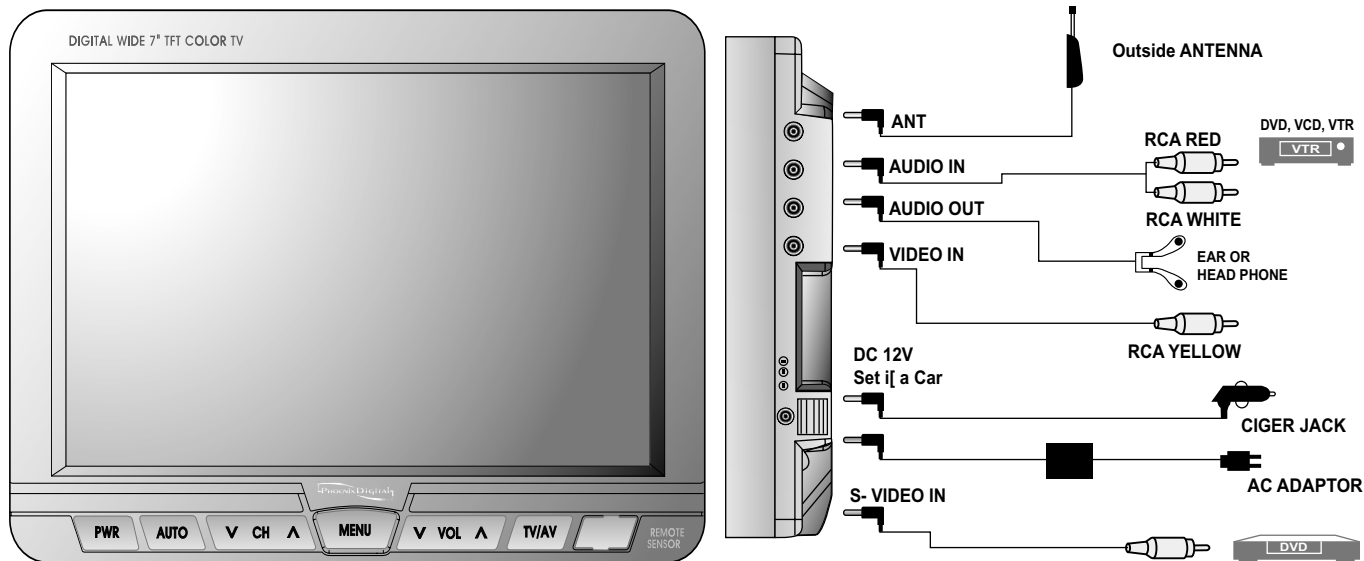
⑨ VOLUME Control Button

This button controls TV volume. If menus are displayed on screen, the button reduces and changes the value of the menu.

⑩ MUTE Button

Mutes the TV sound.

5. Connection Diagram



6. Troubleshooting (Before Contacting Service Center)

The screen of this device is LCD (Liquid Crystal Display) which may be broken with the impact on the front of channel. Please, note that you need to pay for this repair. In addition, if you shortly press one part of the screen with a finger, that part may show a sign of problem, but will return to the original status soon.

Do not give impact or pressure on the screen as practically as possible.

Problem	Cause	Check and Troubleshooting
I cannot turn on the power	- Dew is formed in the device - Power code is not plugged in - Used defective adapter for home	- A dew will disappear in 30 minutes to 1 hour when the device gets accustomed to the environment and it will normally operate. Do not forcefully turn on the power or start operation, but wait until the problem is gone. - Exactly plug in the power code. - Use the adapter with rated capacity
Remote controller is not working.	- Failed to follow the specified instruction and directions on how to use.	- Use it in the scope not exceeding 0.2-3m and 30 degree from the center of the sensor.
It is difficult to watch TV screen due to noise	- Selected a wrong channel - A vehicle is in blind spot	- If the channel is duplicated, select the channel that displays the screen most clearly. If a vehicle moves in the distance, you need to operate the channel auto scanning again. - Due to the geographical features of Korea with many mountains, it may not display clear screen in the blind spot if you are in a moving vehicle. Get out of the blind spot and move to the area with good reception status.
I entered AV signal but no screen comes out	- Selected the mode as TV.	- When you use external AV device, press AV/TV button to change the mode.

- * The temperature and humidity in the car may be extremely different from those of ordinary indoor in the summer or winter due to direct sunlight or air-conditioning system, which may result in formation of dew as shown below.
- If you pour cold water in the cup in the ordinary room temperature, dewdrops (water drop) will be formed on the surface of the cup. If the temperature rapidly changes, the device may develop dewdrops like a cup with cold water.
 - If you suddenly moved from cold place to warm place, it corresponds to the case when you turn on the heater in the car to lift the temperature while it is below zero outside in the winter.