Meicheng®

PMMS-7

PORTABLE MULTI-MEDIA SYSTEM WITH 7 INCHES COLOR TFT LCD (PMMS-7)

USER MANUAL

Table Of Contents

1. Introduction

Thank you for choosing the Portable Multi-Media System. This portable system is designed for use in Vehicles, at home, in the office or anywhere in house. The model PMMS7 features 7" inches Color TFT-LCD Screen for super slim DVD player unit plus 6 different multi-media card player unit. The DVD player system are ideal for viewing DVD movies and listening to music CD's in either standard(CD-DA) or MP3 formats and the Multi-media player system are ideal for playing audio/video content in 6 different media card.

The DVD player unit with color TFT LCD has many configurations and options. Besides being able to watch your favorite movies, you can also view the output from your video gaming device, camcorder or digital camera through the color TFT LCD Screen.

The multi-media card player unit could play 6 different cards, Compact Flash(C/F) type I/II, Memory Stick Card(MS), Secure Digital Card(SD), Multi-Media Card(MMC) and Smart Media Card(SMC). The content on the card could be audio/video data and the file format could be JPEG, Motion JPEG, MPEG-1, MPEG-2, MP3, MPEG-4, WMA, WMV etc.. All the video/Audio output to color TFT LCD screen by switch.

All the capabilities broaden your choices of entertainment while at home, on the road or on vacation. In addition, an extra Display Screen can be added to the system. All the configurations for the system are quite easy to set-up and use

This instruction manual will explain the system's many features step-by-step. Please read the entire manual carefully before using the system. The manual will help you to understand all of the features and assist you in getting the most out of this PMMS7 system.

2. Summary of Features:
. **Fully portable DVD System**
   Play DVD, SVCD, VCD, CD and MP3 format with Slim DVD loader
. **7" Color TFT LCD Screen**
   Volume/Brightness/Color controlled by OSD menu
. **6 different multi-media card player**
   CF I/II, MMC, SD, SMC, MS in JPEG/MJPEG/MPEG-1/MPEG-2/MPEG-4/MP3 format.
. **2 Stereo earphones and headphone jacks**
. **2 Watt Stereo Speaker**
. **Remote control sensor with full function remote control unit**
. **Adaptable for use at home or in car**
   Easy to use Headrest Arm or Harness System for use in car
. **Audio/Video input from external devices (video game, camcorder, etc.)**
. **Audio/Video output to external devices (TV monitor, VCR, etc.)**

3. Warning and Caution Notes:

Installation:

Ensure that the DVD System is always installed in accordance with the procedures and diagrams shown in this manual. The system is designed for backseat viewing only. Do not use the system in the front seat while operating vehicle.

3.1 Safety:

To prevent general damage, do not place the system on any unstable surface. Always operate the system with Carrying Bag open or fixed with support arm to maintain the proper ventilation and temperature. Avoid contact with direct sunlight, heat, dust or magnetic fields. Do not insert foreign objects of any kind into the slot for disk. Avoid contact with liquid on or in any part of the system.

3.2 Electrical:

To prevent damage due to fire or electric shock, do not expose the system to rain or moisture. Do not disassemble any part of the system. To prevent your vehicle's battery from discharging while this unit is not in use, disconnect the system from the 12-Volt DC power output jack.

3.3 Cleaning:

Ensure the system is disconnected from the power source before cleaning. Use only a slightly damp cloth to wipe down the outside surface of the system. Do not use cleaners of any kind on the surface of the system.

3.4 Disc media:

To prevent internal damage to the system, only use standard DVD, VCD and CD disc formats. Avoid contact with direct sunlight, heat and dirt. Always remove the disc from the system and return it to the storage case after each use. Handle the disc by the edges and never touch the surface.

4. Contents of System:

a) 1 PMMS
b) 1 Remote control Unit
c) 1 Stereo Earphones
d) 1 Display Screen Mask-Harness (optional)
e) 1 AC Power Adapter(for home use)
f) 1 12-Volt DC Power Adapter(for car use)
g) 1 A/V Input Cable
h) 1 A/V Output Cable
i) 1 Headrest Arm (optional)
j) 1 Instruction Manual

a)

b)

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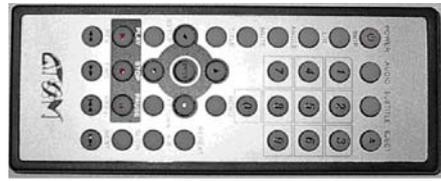
5.   DVD player unit controls and connections

5.1 DVD player key function

a) POWER   Turn power "ON/OFF" to DVD Player Unit and Display Unit
b) EJECT   Eject the disc
c) PLAY   Start disc play
d) STOP   Stop disc play
e) PREV Chapter Skip to previous chapter
f) NEXT Chapter Skip to next chapter
g) DVD MENU   Display root menu of disc
h) SELECT   Executes selections or settings
i) Navigation keys Move cursor to the arrow item of related DVD menu function on the screen
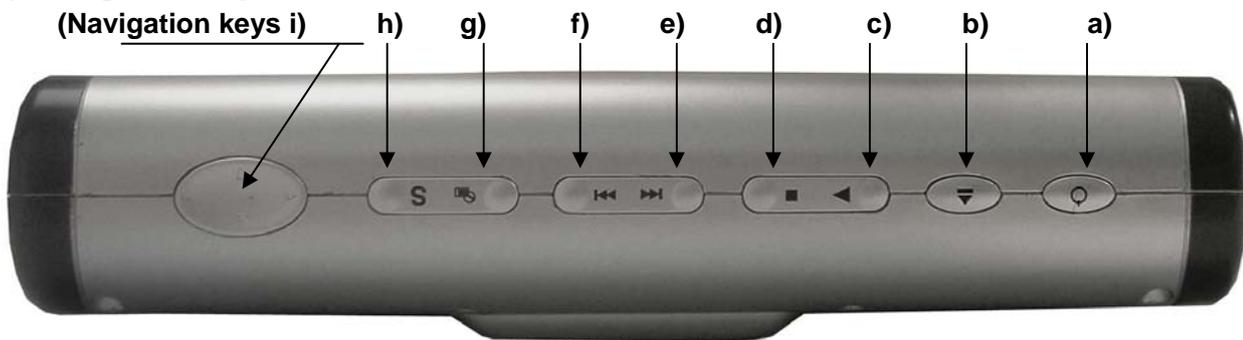
5.2   Slot and I/O jack

   a)   **4 in 1(SD/MS/SM/MM) media card slot**   b) **C/F I/II media card slot**
   c) **TFT LCD A/V input Jack (AV-IN)**   d) **A/V output Jack(AV-OUT)**
   e) **DVD/PMP switch(CARD/DVD)**   f) **Power Jack(POWER)**
   g) **DVD disc slot**
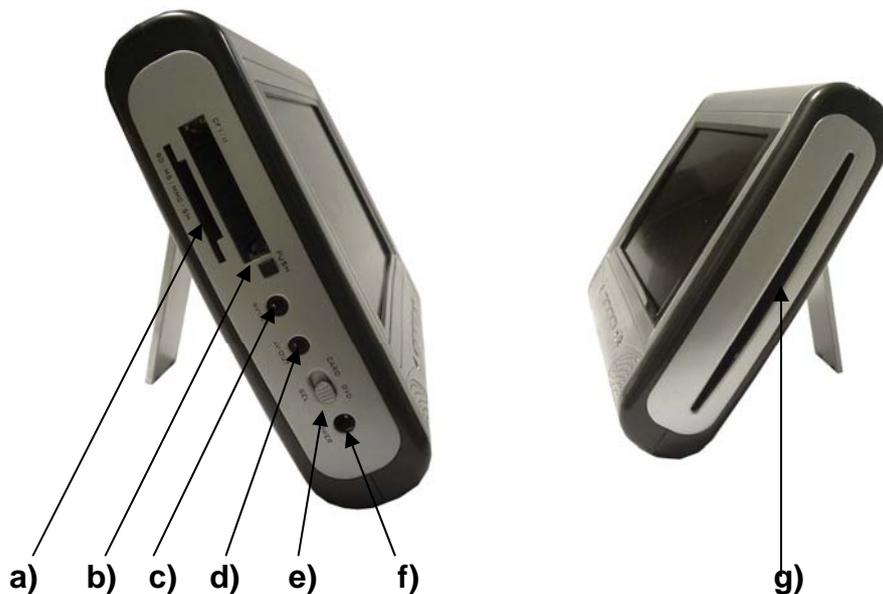
5.3 Display unit

a) LED Indicator   Indicates Player unit Power "ON"
b) PHONE   Headphone Input jack
c) POWER key   Turn power "ON/OFF" to display screen unit
d) DOWN key   Move cursor to the down item of related display menu function on the screen
e) MENU key   Activate or de-activate the On screen Display control function
f) UP key   Move cursor to the up item of related display menu function on the screen
g) Remote sensor Infrared receiver
h) Photo sensor   Luminance detect sensor
i) Color TFT LCD 7" or 8" TFT LCD screen with protective mask
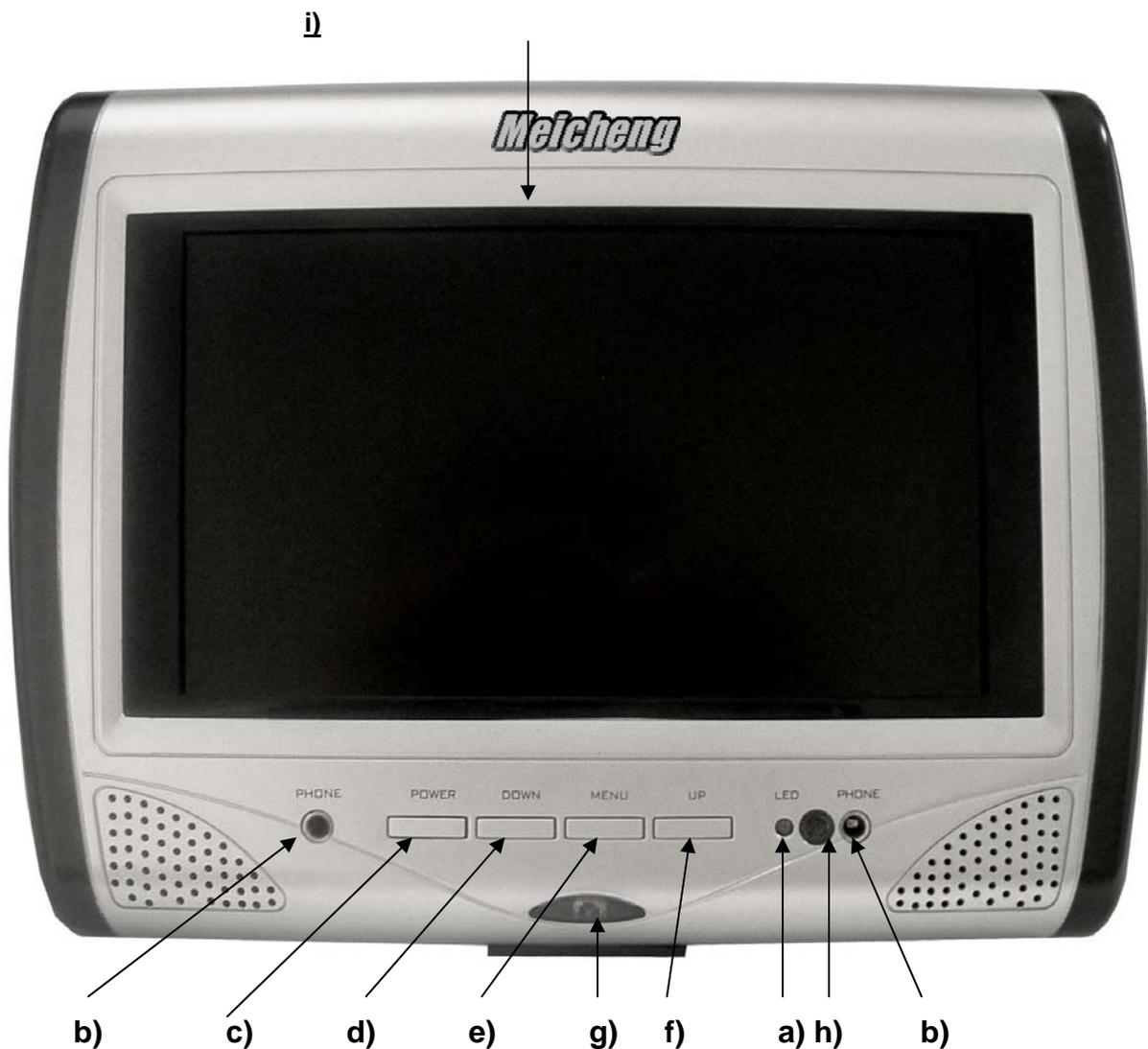
## 5.4 Remote control function (for DVD player)

POWER   Turn power "ON/OFF" to DVD Player Unit and Display Unit
EJECT   Eject the disc
PLAY   Start disc play
STOP   Stop disc play
PAUSE   Freeze frame
SLOW   Play disc at 1/2, 1/4 or 1/8 speed
REVERSE   Scan backward at 2X, 4X, 8X, 16X or 32X speed
FORWARD   Scan forward at 2X, 4X, 8X, 16X or 32X speed
PREVIOUS   Skip to previous chapter
NEXT   Skip to next chapter
Numeric keypad   Enter numbers
Navigation keys Navigate through menus **(Up/Down/Left/Right arrow key& Enter key)**
ENTER   Executes selections or settings
MENU   Display root menu of disc
REPEAT   Repeat selected chapter or title
A-B   Repeat a specific segment of disc
TITLE   Display title of disc
SET-UP   Display Set-up menu
RETURN   Returns from Set-up
SKIP   Advance to specific location on disc by time, title or chapter

L/R   Control sound between left and right speakers
ANGLE   Change viewing angle of scene
MUTE   Mutes
AUDIO   Change audio language
SUBTITLE   Select subtitle language

Navigation Keys
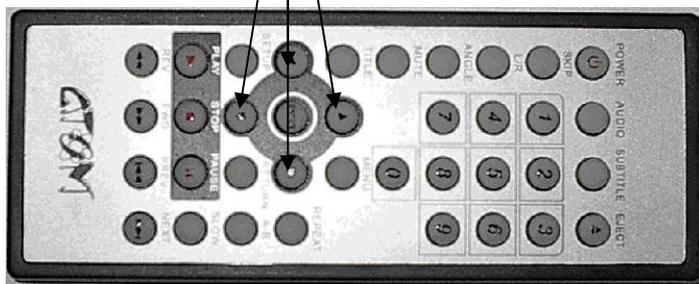
6. Set-up procedures

6.1 Set-up of PMMS in vehicle with Seat Harness

1. Remove the mask-harness from the case.
2. the harness has a covering bag and headrest Strap(see Fig. 6-1)

COVERING BAG   HEADREST STRAP

Fig 6-1

BUCKLE

3. Unfasten headrest strap from the hook and loop fasteners
4. Place the PMMS inside the Mask-Harness so that the screen is fully visible through the display window.(see Fig. 6-2)

Fig. 6-2   Fig. 6-3

5. Slip the support straps under the screen bracket and around the back. Firmly secure the straps to the hook and loop fasteners on the back of the harness.
6. Unlock the buckle of the headrest Strap and adjust the length of the strap to fit around the headrest of the front seat
7. Place the Headrest Strap around the headrest of the front seat and lock the buckle firmly.
8. Adjust the length of the Headrest Strap to ensure the Display Screen is firmly secured against the back of the headrest.(see Fig. 6-3)
9. Remove the 12-Volt DC Power Adapter from the storage compartment of the carrying Bag
10. Locate the power jack (Label DC 12V) on the left side of the system. Connect the adapter plug through the side access panel of the Carrying Bag.

11. Connect the car adapter plug to any available 12-Volt DC power output jack in the vehicle.(see Fig. 6-4),**Please make sure that the slide switch of left side is placed on DVD**

(Fig. 6-4)   (Fig. 6-5)

12. To power up the DVD player unit, press the DVD player power button once and Display Screen power button once too. The LED indicator on the front panel would light if power up successfully.(see Fig. 6-5)

6.2 Set-up of PMMS in vehicle with Headrest Arm

1. Remove the headrest Arm from the case
2. The Headrest Arm has a lock screw and an adjustable arm(see Fig. 6-6)

Adjustable arm   Lock screw

(Fig. 6-6)

3. Unfasten adjustable arm screw and fix it to Headrest support bar.(see Fig. 6-7)
4. Place the PMMS on the top of lock screw and screw it tightly (see Fig. 6-8)
5. Align the viewing angle of the PMMS.
6. Locate the power jack (Label POWER) on the left side of PMMS. Connect the car adapter plug from 12-Volt DC power output in the vehicle to the power jack.

| (Fig. 6-7) | (Fig. 6-8) |

7).To power up the DVD player unit, press the DVD player power button and Display Screen power button once. The LED indicator on the front panel would light on if power on successfully. **Please make sure that the slide switch of left side is placed on <u>DVD</u> position**

6.3 Set-up of PMMS for use at home

1. Unlock the support stand on the back of the PMMS.(see Fig. 6-9)

<u>LOCKER</u>   (Fig. 6-9)   <u>SUPPORT STAND</u>

2. Pull the support stand on the back of the PMMS.
3. Adjust the PMMS to a proper position for viewing.(see figure on upper right)
4. Lock the support stand on the back of the PMMS.
5. Locate the power jack (Label POWER) on the left side of PMMS. Connect the AC adapter plug to the power jack.
6. Connect the AC Power Adapter plug to any available AC power outlet on the wall.
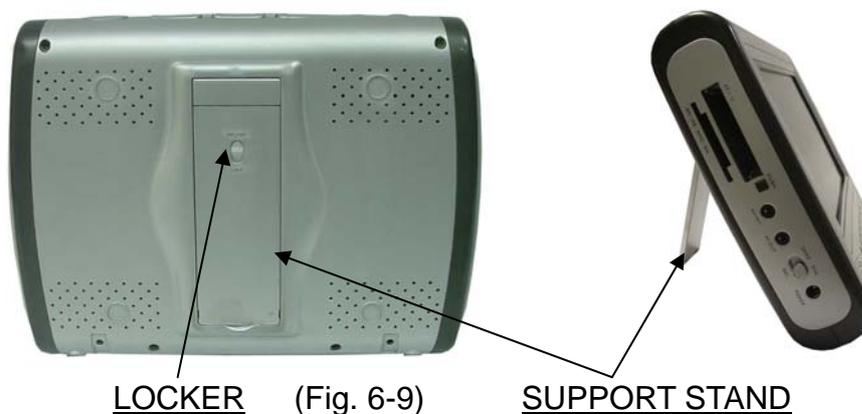7. To power on the DVD System, press the DVD player power button and Display Screen power button once. The LED indicator on the front panel would light on if power on successfully. **Please make sure that the slide switch of left side is placed on <u>DVD</u> position**

7. Basic operation of DVD player unit

1. Ensure the system is properly set-up and power is connected as explained earlier in this manual (see set-up procedures in car or at home).
2. To power the PMMS, press the DVD player unit power button and press display unit power button once. The LED indicator on the front panel of display unit would be in "Blue" light to indicate the power "ON".
3. **Please make sure that the slide switch of left side is placed on <u>DVD</u> position.**
4. Carefully insert a DVD or CD disc into the slot located on the right side of the PMMS. The unit will automatically load and begin playing the program.
5. **The printing side of disc should be face up.**
6. **If there is a previously loaded disc, the Player Unit will automatically begin playing the program after pressing the power buttons.**
7. Use the DVD player unit control panel on the top position (see 5.1) for basic control or use the remote Control device to run all aspects of playing the disc's program.
8. Adjust the volume by press the UP or DOWN key on the front panel of display unit, the volume message would come out on the screen.
9. Brightness, color saturation, hue, contrast and other video's features could be adjustable by press the MENU, UP and DOWN keys to a comfortable position for viewing. Also, the relative message would come out on the screen while being adjusting.
10. After using the DVD player unit, always power the system off. Press the player unit power button once. Ensure the LED on the front panel of display unit is off.

8. Connecting PMMS to other devices

8.1 Display unit is connected to other devices (camcorder, game machine)

1. Ensure the system is properly Set-up and power is connected as explained earlier (see set-up procedures in car or at home)
2. Connect the A/V input cable from other device to the A/V input jack (AV-IN) on the side panel.
3. Press the display unit power buttons on the front panel and wait for power LED is "ON".
4. Turn on the power of other device.

8.2 PMMS unit is connected to other devices (TV monitor, VCR)

1. Ensure the system is properly Set-up and power is connected as explained earlier (see set-up procedures in car or at home)
2. Plug the A/V output cable and connect to other device to this jack (AV-OUT).
3. Press the power buttons on the top and front panel and wait for power LED is "ON".
4. Turn on the power of other device.

9. DVD Set-up Menus

The DVD player unit has a built-in set-up Menu. The menu allows you to change the configuration options available on the system. At any time after the power to the DVD player unit is "ON", the user can access the set-up menu by pressing the set-up button on the Remote controller. To exit the set-up menu, simply press set-up button again. To browse and select the options, use the navigation buttons and the Enter button on the Remote Controller.
The default settings of the DVD System as following:

Setting of Disc: Audio   English
                               Subtitle   English
                               DISC Menus English
                               Parental   Level 8

Setting of Video: TV Aspect   16:9
                                 Still Mode   Automatic
                                 TV Output Type NTSC

Setting of Audio: PCM Down Conversion   No
                                 Dolby Digital   PCM
                                 DTS Digital Surround   PCM
                                 D. Range Compression   Off

Setting of Display Menu Language   English
                                 On-Screen Message   On

Setting of Other   Reset to Default

10. Multi-media card player unit

10.1 How to use

The multi-media card player unit is activated by switching the switch on the left side panel to CARD position. All the operation is same as the DVD player unit, except that top panel (section 5.1) could not be use.

10.2 DVD player top panel key

Top panel key (section 5.1) is not available while multi-media card player in use.

10.3 Slot and I/O jack

Please set the switch at CARD position. The A/V output jack shows current card player at the same time.

10.4 Display unit

The operation is same as the DVD player unit (section 5.4)

10.5 Remote control function (for Multi-media card player)

MENU	Display root menu
ENTER	Executes the selection or settings
SETUP	Display setup menu
PLAY	Start card play
STOP	Stop card play
PAUSE	Freeze frame
REPEAT	Repeat selected chapter or title
NEXT	Skip to next icon
PREV	Skip to previous icon
Up arrow	Move the cursor up
Down arrow	Move the cursor down
Left arrow	Move the cursor left
Right arrow	Move the cursor right
SUBTITLE	Picture slide show
EJECT	Picture zoom function
ANGLE	Picture rotation function
L/R	Turn on/off background music
FWD	Volume up
REV	Volume down

10.6 Cards

The PMMS provides two card slots. One is Compact Flash type I or type II card slot, the other is 4-in-1 cards slot for 4 different cards. The 4-in-1 card means Secure Digital (SD), Smart Media Card (SMC), Memory Stick (MS) and Multi-Media Card (MMC).

10.7 Menu

The media card player set the Audio/Video data into four categories PICTURE, MUSIC, VIDEO and FILE on the screen.

The data in PICTURE should be composed of still files.
The data in MUSIC should be composed of audio files,
The data in VIDEO should be composed of motion audio/video files.
The data in FILES list all the files in card that available.

10.8 File type

The media card format is listed below:
Still picture: JPEG
Motion picture: Motion JPEG
                            MPEG-1(VCD)
                            MPEG-2(DVD)
                            MPEG-4(Div-x)
                            WMV
Audio only: MPEG-2 layer 3(MP3)
                            WMA

11. Troubleshooting the PMMS

11.1	DVD player unit
No power	Ensure power Adapter (AC or DC) is securely plugged into the power jack. Check that LED light is "ON". **Make sure the switch on the left side is placed on DVD position.**
No sound	**Make sure the switch on the left side is placed on DVD position.** Ensure volume control is properly adjusted. Remove any earphones plugged into the PHONE jacks of the Display. Screen.
Disc does not play	**Make sure the switch on the left side is placed on DVD position.** Ensure disc is properly loaded into DVD player unit. Check that the disc is clean and free from dust. Remove any foreign object from the disc loading area. Check the regional code for your area.
Remote control does not work	Check the condition and position of batteries inside the remote controller, and replace batteries in fresh ones if needed. Point remote control at sensors within 45° field of view.
No picture	**Make sure the switch on the left side is placed on DVD position.** Ensure brightness control is properly adjusted. Disconnect A/V input jack from other sources.
Symbol appears on screen and requested function does not work	Indicates that the particular function requested is presently not available.

11.2	Multi-media card player unit
No power	Ensure power Adapter (AC or DC) is securely plugged into the power jack. Check that LED light is "ON". **Make sure the switch on the left side is placed on CARD position.**
No sound	**Make sure the switch on the left side is placed on CARD position.** Ensure volume control is properly adjusted. Remove any earphones plugged into the phone jack on the display, unit.
No picture	**Make sure the switch on the left side is placed on CARD position.** Ensure brightness control is properly adjusted. Disconnect A/V input jack from other sources.

11.3	TFT LCD is connected to other devices
No power	Ensure power Adapter (AC or DC) is securely plugged into the power jack. Check that LED light is "ON".
No sound	Ensure A/V input cable is plugged into the A/V input jack on the left side. Ensure that the other device has power and is running properly.
No picture	Ensure A/V input cable is plugged into the A/V input jack on the left side. Ensure that the other device has power and is running properly.

12. Specification

12.1 Multi-media card player unit

CARD TYPE	CF I/II, SD/SMC/MS/MMC
Video file format	JPEG/MJPEG/MPEG1/MPEG2/MPEG4
Audio file format	MP3/ACC/WMA
Top Key Function	Play/Pause/Stop/Eject/F.F./F.R./Menu/Up/Down/Left/Right
Output	1 CVBS(NTSC or PAL) and 2 channel audio output
Video output	0.7 Vp-p 75 ohm(CVBS format)

12.2 DVD player unit

Loader Model	Super Slim Slot-in DVD/VCD player servo unit
Optical pickup head	SHARP HPD-60
Disk format	DVD/SVCD/VCD/CD-DA disk
Top Key Function	Same as card reader.
Output	1 CVBS(NTSC or PAL) and 2 channel audio output
Video output	0.7 Vp-p 75 ohm(CVBS format)

12.3 Color TFT LCD

Display Model	7 Inch color TFT LCD Monitor
Display Method	TFT Active Matrix System
Dimension	171.0(W) x 109.5(H) x 11.5(D)㎜,16:9 ratio
Resolution	800(H) x 480(V) RGB in stripe
View Angle	90° (Vertical) 120°(Horizontal)
Brightness	250 Cd/㎡ average, 150:1 contrast ratio
Front Key Function	Brightness/Color/Volume Adjust by OSD menu driven
Extra Video Input	1 Vp-p 75 ohm(CVBS format)

12.4 Others

Angle/Length Stand	Adjust view angle
Screw Lock	Fix in car Headrest Arm
Remote IR controller	Function same as Top Key
Power consumption	DC 12 Volt ± 10％, < 1500 Ma
Temperature Range	＋0℃ ～ ＋60℃(operating), －20℃ ～ ＋70℃(storage)
Weight	Less than 1100 gram.

13. Appendices

13.1 DVD brief

DVD player is a ticket to home theater. Its targets of performance are much better than all previous AV equipments. This advanced technology combines high quality, high density pictures and sounds, and then compresses them into a 12cm disk. It provides superior digital surrounding sound and is fully compatible with SVCD / DVD / VCD / CD / MP3.

Comparison between DVD disc & other disc

Disc type	DVD				SVCD	VCD	CD	LD
Way of recording	Digital/MPEG2				Digital/ MPEG2	Digital/ MPEG1	Digital	Analog
Capacity	Single Layer Single Side 4.7GB	Single Layer Double Side 8.5GB	Double Layer Single Side 9.4GB	Double Layer Double Side 17GB	650MB	650MB	650MB	
Playing time	133min	242min	266min	484min	45min	74min	74min	Single side: 60min Double side: 102min
Diameter	12cm / 8cm				12cm	12cm	12cm / 8cm	30cm / 20cm
Horizontal resolution	≧500 line				350 lin	250 lin		430 lin
Frame Ratio	Multi							One
Title	32							Up to 16
Sound	SPDIF/RAW PCM						RAW PCM	RAW PCM, FM
Sound Quality	44.1KHz, 48KHz,96KHz/16bit,24bit					44.1KHz	44.1KHz /16bit	44.1KHz /16bit
Channels	Dolby digital / RAW PCM: 8 Dolby digital / 5.1 RAW PCM: 8				4	2	2	RAW PCM: 2 Analog: 2

13.2 Warning

TO REDUCE THE RISK OF FIRES AND ELECTRIC SHOCKS,   DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION RISK OF ELECTRONIC SHOCK DO NOT OPEN	CAUTION: To reduce the risk of fire and electric shock, do not remove the cover(or back) of the unit. Refer servicing only to qualified service personnel.
⚡	This lightening flash arrowhead symbol, within an equilateral triangle, is intended to alert user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock to
!	The exclamation point within an equilateral triangle is intended to alert use to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.
CLASS 1 LASER PRODUCT	The marking of products using lasers. The marking will be shown at the rear panel of the unit, means the unit have been classified as Class 1, and is utilizing laser beams that are of weaker class. There is no danger of hazardous radiation outside the unit.

13.3 Select DVD Disc

DVD discs and DVD players are manufactured under the worldwide agreed DVD Regional Code System that the player will operate only with corresponding disc of the same Regional Code.

Regional Code.	Region
1.	Canada, USA
2.	Europe (incl. Poland, Romania, The Czech Republic), Japan, Middle East(incl. Saudi Arabia, Egypt, Iran, South Africa).
3.	East Asia (incl. Hong Kong, Taiwan, South Korea), South-East Asia.
4.	Australia, Caribbean, Central & South America, Mexico, New Zealand
5.	Africa, Former Soviet Union, India, North Korea, Mexico, Pakistan, Turkmenistan
6.	China