

Owner's manual

# VTM1

10.2"TFT LCD Roof Mount Monitor with DVD Player, USB 2.0 and SD/MMC Ports

# 1. CONTENTS

1.	Key Product Features	.2
	Key Product Features Safety Information	. 3
2.	DVD Video Features	
	Controls and Functions	. 5
	Controls and Functions : Remote Unit	. 6
3.	Operations	. 8
	System Setup	.11
	Using the OSD Menu	.11
	Customizing DVD Settings - USB Stick and SD Memory Card use	
	Maintenance	. 13
4.	Troubleshooting	. 14
5.	Specifications	. 15
6.	Installation	
	Wiring and connections	. 16
	Installing the player	. 17
	Installing the remote control battery	
	Notes	

# Welcome

Thank you for purchasing the Clarion VTM1 Roof Mount LCD Monitor & DVD/USB/SD/MMC Media player. Please read this manual carefully before using your player to get the most from its features and functions. We suggest you keep this manual in a safe place as it can be a valuable tool in helping you to understand its operation and fully enjoy your multimedia system.

# Key Product Features

The VTM1 can be used stand-alone or integrated into a mobile multimedia system.

- 10.2" TFT-LCD color monitor (16:9).
- · Roof Mounting Application.
- Pixel (dots): 800RGB(W) x 480(H).
- NTSC and PAL Compatible.
- Adjustable Colour/Contrast/Brightness/Tint (NTSC only).
- Manual Viewing Angle Adjustment: Vertical Up/Down <150°.</li>
- · White LED Dome Light.
- · Automotive Start-Up Protection.
- Built-in Infrared Transmitter for IR Headphones (2 pair supplied).
- On-Screen Display.
- Infrared Remote Control.
- · On Screen Display.
- 2 x AV Input (incl.1 x Side Mounted AV1 In 3.5mm socket) and 1 x AV Output.
- USB 2.0 Port for Memory Stick: Supports MPEG, AVI, MP3, WMA and JPEG files.
- SD/MMC Slot: Supports MPEG, AVI, MP3, WMA and JPEG files. Card Size Limit: 8GB.
- DVD Format (Region 4): Supports DVD±R, DVD±RW, DVD±R DL, MP3 and AVI files.
- CD Format: Supports CD-DA, CD-R, CD-RW, MP3, VCD and Super VCD files.
- FM Transmitter for reception via your car audio system: Adjustable from 88.1 to 89.9 MHz (0.2 MHz steps).
- Note: 1. Multi-session CDs and 320kbps WMA files cannot be played on this product. (Ref Page 4: CD Extra)
  - 2. USB does not support IPod, MP3 Players or Portable High Capacity Hard Drives (eg. FAT 32).
  - 3. SD may not reliably support above 3000 Files / 300 Folders.

# Safety Information

# **CAUTION**

- Do not operate this product in any way other than described within this Owners Manual.
   Failure to follow the instructions within it will void your warranty.
- · SAFETY FIRST! Do not install the display where it may:
  - (i) Obstruct the driver's vision.
  - (ii) Impair the performance of any of the vehicle's operating systems or safety features, including airbags.
  - (iii) Impair the driver's ability to safely operate the vehicle.
- When using this system always make sure you are firmly secured by your seat belt, to ensure you do not
  accidentally hit your head on the screen during sudden braking or other incidents. If you are ever in a
  vehicle accident, injuries can be more severe if your seat belt is not properly buckled.
- Installation or servicing of this product by persons without suitable training and experience in electronic
  equipment and automotive accessories may be dangerous. Visit www.clarion.com.au to find your nearest
  Authorised Clarion Dealer for professional installation and support.
- To avoid draining the battery it is recommended that you not use this product for extended periods without the vehicle engine running.
- Do not disassemble or alter this product in any way. Failure to observe this warning can cause damage to your product and will void your warranty.
- Never clean the surface of the screen with a chemical solvent or a corrosive detergent.
   Doing so may cause permanent damage to the TFT LCD screen.
- Avoid installing this product under direct sunlight or near a hot air vent. Please note that its normal working temperature is from -5°C to +50°C. If the internal temperature of the vehicle is extremely high, a short cooling down period is necessary before operating the product.
- If the temperature inside the car is very low and the monitor is used soon after switching on the heater, moisture may form on the TFT LCD panel. Turn off the unit immediately! Failure to do so may cause the internal components to short circuit. Allow the unit to rest to allow the condensation to disappear before you continue operation.
- In extremely cold temperatures, movement of the picture may be slow and the image may appear dark.
   This is typical of a TFT LCD and not a malfunction. Correct operation will resume once the unit reaches its normal operating temperature range.
- Do not drop or hit the TFT LCD panel with a hard object, as it may cause permanent damage.
   Should the TFT LCD panel break, avoid touching the glass and/or fluid. If you injure yourself as a result of such contact clean the wound with plenty of water and seek immediate medical attention.
- Due to different vehicle specifications, please kindly ensure that the display monitor is properly located and not obstructing any air-conditioning vent/s.
- Avoid inserting any foreign objects into the slot of the disc player. Failure to observe this will void your warranty and cause damage to the mechanism of this unit.
- Protect your Media! Heat & humidity can cause damage. Remove any USB Key, SD card and eject
  any disc from your VTM1 before departing from your vehicle and store them away from direct sun light.
- It is also wise to close the LCD panel when you leave your vehicle to minimise possible screen damage.
- During installation use the supplied screws to fix the VTM1 Metal Mounting Plate.

This unit provides the following functions in addition to the high image and sound quality of DVD video:

# Multi-sound Function (2))



DVD audio can support up to 8 languages per film. Availability is dependant upon the features of your disc. From these you may select the language of your choice.

# **Multi-angle Function**



A DVD video that is filmed from multiple angles. You may select whichever available perspective you wish to view a scene from.

# Subtitle Function



A DVD video can offer you a choice of up to 32 subtitled languages which can be selected via your Remote Control.

# Disc Playback

This DVD player can play the following formats:

-	DVD				
v	ī	D	E	0	

DVD's

12cm

disc

VCD's

12cm

Audio CD'S

12cm

MP3 CD'S

12cm

#### About CD Extra discs

A CD Extra disc contains a total of two recorded sessions. The first is an Audio session, the second is a Data session. Your personally created CDs with more than 2 data sessions recorded cannot be played on this product.

# MP3 Playback

This unit can play back CD-R/CD-RW and DVD±R discs on which MP3 music data has been recorded.

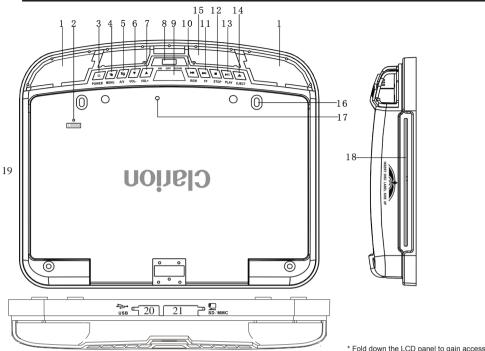
#### **Region Numbers**

The DVD Video System assigns a Region number to the DVD video player and to the DVD disc according to its Global Sales/Marketing location. The Region number of a disc is marked as shown below, on the disc and its case.

#### Example:

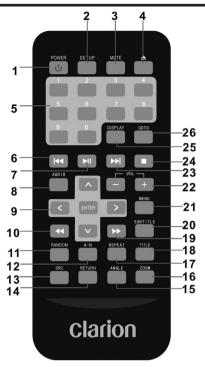


# **Controls and Functions**



	* Fold down the LCD panel to gain an				
	Item	Name	Function or Control		
	1	Dome Light	Provides an interior light for the vehicle.		
	2	Reset Button	Press with a pencil or other narrow-tipped tool to rest the player if required.*		
	3	Power Button	Press to turn on or turn off the player		
	4	Menu Button	Press to open the Display menu. Press again to sequentially select each menu item.		
	5	Source Button	Press to select the desired Video Input Mode. (DVD-IN, AV 1 and AV 2).		
	6	VOL- Button	Press to decrease the Volume and reduce a value in the menu.		
	7	VOL+ Button	Press to increase the Volume and increase a value in the menu.		
S	8	Dome Light switch	Slide the switch to select the light ON, OFF or DOOR activated. See note below.		
Ē	9	Panel Open Button	Press to open the LCD panel.		
S	10	<b>I</b> ■ Button	Press to skip the previous chapter on DVD or track on CD; Press and hold it to fast		
ه E			reverse playback at 2x, 4x, 8x, 16x and 32x speeds.		
SIS	11 Button		Press to skip the next chapter on DVD or track on CD; Press and hold it to fast forward		
ΤE			playback at 2x, 4x, 8x, 16x and 32x speeds		
NO.	12	Stop Button	Press to stop playback, press [PLAY] or [ENTER] button to start playing at the last		
ä			position; Press [STOP] button twice to fully stop playback, Press [PLAY] or [ENTER]		
¥			button to start playing at the beginning of DVD.		
DVD PLAYER CONTROLS & FUNCTIONS	13	► Play / Pause	Press to Play or Pause a disc.		
2	14	Eject Button	Press to Eject the disc.		
	15	IR window	Receives IR signals from the remote control and sends IR signals to IR Headphones.		
	16	Fixing holes	Secure the player to the mounting plate with screws inserted into these holes.*		
	17	LCD Shut Off switch	Press to turn off the LCD screen.*		
	18	Disc Slot	Insertion slot for CD and DVD discs.		
	19	AV1 IN Socket	Audio/Video Input Socket (AV1) for connecting to external equipment (E.g. Games).		
	20	USB Socket	Insert a USB Memory Stick into this slot.		
	21	SD/MMC Card Slot	Insert an SD or MMC card into this slot.		
		l .			

# Controls and Functions : Remote Unit



Item	Name	Function or control		
1	Power	Press to turn the VTM1 On or Off.		
2	Setup	Press to access the setup menu and modify the player settings.		
3	Mute	Press to switch the sound On or Off.		
4	<b>E</b> ject	Press to Eject an inserted CD or DVD.		
5	0 - 9 Numeric Keys	Press to directly enter Track Numbers or to change some settings.		
6	Previous	Press to go back to a previous Chapter / Track on CD, DVD, USB or SD.		
7	Play or Pause Press to Play or Pause playback from CD, DVD, USB or SD.			
8	Audio	DVD: Press to change the Audio Language during playback.		
	Addio	VCD/CD: Press to change the Audio Channel (Left, Right, Stereo) during playback.		
9	Up/Down/Left/Right Arrows and ENTER	Navigation Up/Left/Right/Down and confirm choose .		
10	<b>◀</b> Reverse	Press to Fast Reverse playback at 2x, 4x, 8x, 16x and 32x speeds.		
11	Random	Press to play chapters or tracks in random order.		
12	A - B	Press to repeat playback from point A to point B.		
13	SRC	Press to select the desired Video Input Source: DVD, AV1 or AV2.  To select USB or SD first select DVD mode, then press and hold once again >2 sec.  To switch between USB and SD modes press and hold once again until it changes.		
14	Return	Press to return to the Main Menu. Press again to return the last position of playback.		

# Controls and Functions : Remote Unit

REMOTE CONTROL FUNCTIONS

Item	Name	Function or control	
15	Anglo	Press to select a different filming Angle.	
15	Angle	Please note that this feature only works if the DVD is recorded with multiple angles.	
16	Zoom	Press to set the Zoom for movie viewing.	
17	Repeat	DVD Repeat: Press 1x Chapter, 2x Title, 3x, All.	
17	Кереаі	CD Repeat: Press 1x Track, 2x All.	
18	Title	Press to view the DVD disc's Title Menu.	
19	Skip Forward Press to Fast Forward playback at 2x, 4x, 8x,16x and 32x speeds.		
20	Subtitle	Press to select and turn on DVD Subtitles during playback.	
21	Menu	Press to view the DVD Main Menu.	
21	wenu	Press and hold it to display the Display Menu.	
22	VOL - / VOL +	Press to Decrease / Increase the volume.	
23	Next Next	Press to go to the next Chapter on DVD or Track on CD.	
		Press to stop playback, press [PLAY] or [ENTER] button to start playing at the last position;	
24	■ Stop	Press [STOP] button twice to fully stop playback, Press [PLAY] or [ENTER] button to start	
		playing at the beginning of DVD.	
25	Display	Press to Display the Playback Information- DVD and CD: Title, Chapter, Track and Time.	
26	Go To	Press to start Playback at a selected Chapter, Track or Time.	

# 3. OPERATIONS

# Basic DVD Operation

# To open the DVD player

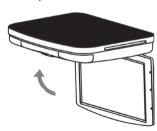
Press Open Button to unlock the LCD panel.



Swing the monitor downward to the desired angle. Note: The LCD display opens to a maximum angle of 150° degrees. Do not attempt to open it further.



To close the DVD player, swing the LCD panel upward until you hear the lock click.



A Make sure that cords and other items do not get caught in the panel when you close it. For your safety, be sure to close the LCD panel when not use it.

# Turning on the player

Press the **b** button on the remote control or the player. The Input source appears as shown:

- Input Source: DVD
- Video System = auto-sets to
   NTSC or PAL



Note: The default source is DVD-IN.

#### Selecting the Input Source

- 1. When power is ON, sequentially press SRC button to cycle from one mode to another.
- 2. The operating modes changes in the following order: DVD-IN > AV1 > AV2 > DVD-IN etc..
- 3. To select USB or SD modes select DVD-IN, then press & hold SRC > 2 sec.
- 4. To switch between USB & SD press SRC >2sec.

# Playing a Disc

The player must be turned on and the mode must be DVD-IN. "NO DISC" will be displayed if a disc is not already loaded. Note: A disc cannot be loaded or ejected if the player is in AV1, AV2 or switched off.

- Insert a disc (face up) into the slot on the right side of the player. LOADING will appear on the screen.
- DVD disc playback will commence automatically.
- 3. Use the Up, Down, Left, Right and ENTER keys on your remote control to navigate the DVD menu.

Please note the following DVD functions:

- Play (or Resume Play) and Pause button
- Next Chapter/Track

I Prev. Chapter/Track

Skip Forward

◀◀ Review/Reverse

■ Stop

Eject Disc

(I) Power

### Switching the player Off

Press the **(b)** button on the remote control or the player once again to turn it off. If a disc remains loaded within the player it will continue playback from this position when power is resumed. Note that leaving media in the player when you are away from your vehicle is not recommended.

# Basic DVD Operation

# Further Notes regarding playing of DVDs.

- When DVD Playback is interrupted by switching the product OFF; when it is switched ON again the DVD commences playback from the start of the disc.
- If during DVD playback, the STOP button is pressed and then the PLAY button is pressed, the DVD will recommence playback from the beginning of the last chapter played.

# Muting the sound

- Press MUTE button to mute the sound during disc playback.
- 2. Press MUTE button again to enable sound.

# Playing DVD's

### Accessing the DVD root menu

Press the MENU button during playback to display the menu. A DVD is divided into sections called titles and chapters. When you play a DVD, a root menu of the disc appears on the screen of your Monitor. The contents of the menu vary from disc to disc. Press MENU during playback to display the menu again. Some DVDs only allow you to select disc playback options using the DVD root menu.

#### **Displaying Playback Information**

During playback, sequentially press the DISPLAY button on the Remote Control to show the following:



# Changing the audio language during Playback (Multi Audio)

- Press the AUDIO button to change audio track during DVD playback. The current audio language number, the total number of available audio channels (languages) and current language are displayed.
- If there are multiple languages available, press the AUDIO button again to cycle through the available languages. The audio display disappears automatically if AUDIO button is not pressed again within 3 seconds.

#### Notes:

- 1. Some DVDs only allow access to this function through the DVD menu.
- 2. This is not available for AVI files on any media.

# Turning on the subtitles and changing the subtitle language:

- Press SUBTITLE button to change the subtitle language you want during DVD Playback. The current language number, the total number of the subtitle languages and current language are displayed.
- If multiple languages are available, press the SUBTITLE button again to cycle through the available languages.
- To turn subtitles off, Press SUBTITLE button until "subtitle off" appears on the screen.
   The subtitle display disappears automatically if the SUBTITLE button is not pressed again within three seconds.

Note: Some DVDs only allow access to this function through the DVD menu.

# **Using Repeat Playback**

To repeat a chapter, a title, or both: During playback, press REPEAT repeatedly to cycle through the available settings:

- Chapter---Repeats the current chapter.
- Title---Repeats the current title.
- All---Repeats all chapters and titles.
- Off---Resumes normal playback

To repeat a custom segment:

- 1. During playback, press A-B to set the starting point "A".
- Press A-B again to set the ending point "B". The player plays the segment between point A and point B repeatedly.
- 3. To cancel the repeat playback and resume normal playback, press A-B again.

# Changing viewing angle during playback (Multi-Angle)

To change viewing angle:

- Press the ANGLE button to cycle through available viewing angles during DVD playback. The current angle number and the total number of angles available appear on the screen.
- 2. Press the ANGLE button again to select a different angle, then press it again to exit and return to the normal viewing angle.

# Basic DVD, CD and MP3 Media Operation

# Changing viewing angle during playback (Multi-Angle) continued...

3. The angle display will disappear automatically if the ANGLE button is not pressed again within 3 seconds.

Note: Viewing angles are available for a DVD if the back of the DVD jacket contains a multiple angles icon.

### **Using Zoom**

To ZOOM the image:

During disc playback, press ZOOM to switch through the available zoom settings. (2x, 3x, 4x, 1/2,1/3,1/4 and off)

Note: If it is JPEG disc, press ZOOM to switch through the available zoom settings. (ZOOM 100%, ZOOM 125%, ZOOM 150%, ZOOM 200%, ZOOM 75%, ZOOM 50%)

### Playing Audio CD's

To display playing time and the current track: During CD playback, press the DISPLAY button to display, the disc type, current time, current track number and total number of the tracks are displayed on the screen.

To repeat a track or the entire CD: During playback, press REPEAT repeatedly to cycle through the available settings:

- Track---Repeats the current track.
- All---Repeats the entire CD.
- Off--- Resume normal playback.

To repeat a custom segment:

- 1. During playback, press A-B to set the starting point "A".
- Press A-B again to set the ending point "B". The player plays the segment between point A and point B repeatedly.
- 3. To cancel and resume normal playback, press A-B again.

### Playing MP3 Media

MP3 is a format for storing digital audio. An audio track is compressed into the MP3 format with little loss of audio quality, while taking up much less disc space. The VTM1 plays USB/SD, CD-R/RW & DVD±RW discs containing MP3 files. When MP3 media is inserted into the player, the menu screen appears automatically. You can use the menu screen to select the folders and tracks you want, or the VTM1 plays the tracks in the order that they were placed onto the media.



To select the folders and tracks you want:

 Press DISPLAY to list all the folders, then press up or down button on the remote control to choose a folder from the folder list.



Press ENTER button on the remote control, the screen will display the files list of the folder your selected.

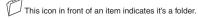


- 3. Press the up or down button on the remote control to choose a file from the files list.
- 4. Press the ENTER button on the remote control to play this file.
- Press ►► to move to the next file.
   or press ◄◄ to move to the previous audio file.

To repeat a file or folder of an MP3 disc: During MP3 playback, press the REPEAT button to cycle through the settings:

- Repeat single---repeats the current file.
- Repeat all---repeats the contents of current folder.
- Repeat off---turns off repeat and resumes normal playback.

# **MP3 Icons**





# System setup

### Adjusting the picture response

Accessing the menu:

To adjust the picture, use the menu button to select the features you would like to adjust. Adjustment selections are as follows.

 Press and hold the MENU button for 3 seconds on the remote control or [ ] on the keypad of the player.



- 2. Press the MENU button repeatedly to select the item you want to change.
- Press < or > buttons to change the value of the item selected.

The features are:

Contrast: Adjusts the contrast of the picture

Brightness: Adjusts the brightness of the picture

Color: Adjusts the color of the picture

**Tint:** Adjusts the tint of the picture (NTSC only)

Wide Screen: Selects display Mode:

Wide (16:9)/ Normal (4:3)

FMT Freq: Selects the FM Transmitter frequency:

Range: 88.1 to 89.9 MHz in 0.2 MHz steps. Press the < or > buttons to change the frequency Then exit the menu and tune your FM radio to this same frequency to enjoy the audio content.

# Using the OSD Menu

Press SETUP on the remote control and the OSD menu opens.

	Menu	Description				
	General setup page TV DISPLAY: modifies the display if it doesn't match the width to heigh					
		You can select from the following:				
		·NORMAL/PS ·NORMAL/LB ·WIDE				
		ANGLE MARK: Selects a different angle if the back of the DVD jacket contains a multiple				
		angles icon. You can select ON or OFF.				
		OSD LANG: Selects a language for DVD play menu. You can select from following: -ENGLISH-FRENCH-SPANISH-ITALIAN				
		CAPTIONS: Selects the caption for DVD play. You can select ON or OFF.				
		SCREEN SAVER: Protects the screen if it paused about 5 minutes. You can select ON or OFF.				
	Speaker setup page	DOWNMIX: Applies to Dolby digital sound. You can select from following: -LT/RT -STEREO				
		DUAL MONO: Selects the different channels of sound. You can select from following:				
ST N		STEREO :L-MONO :R-MONO :MIX-MONO				
PACKAGE CONTENTS		DYNAMIC: Selects the different rating level of dB. Select from:				
ŭ		·Off ·2/8 ·4/8 ·6/8 ·FULL				
KAG	Preference page	TV TYPE: Selects the TV system .You can select from following:				
PAC		·PAL (Europe and Asia) ·NTSC (United States)				
_		Note: Altering this setting will also change the RCA AV Output.				
		AUDIO: Selects the audio track language. You can select from following:				
		·ENGLISH·FRENCH·SPANISH·CHINESE·GERMAN·RUSSIAN·THAI				
		SUBTITLE: Selects the language of the subtitles displayed on the screen. You can select				
		from following:				
		·ENGLISH·FRENCH·SPANISH·CHINESE·GERMAN·RUSSIAN·THAI·OFF				
		DISC MENU: Selects the language of the current disc. You can select from following: -ENGLISH-FRENCH-SPANISH-CHINESE-GERMAN-RUSSIAN-THAI				
		PARENTAL: Restricts the viewing of movies to children of appropriate age levels only. You				
		can select 1 to 8.				
		PASSWORD: Uses the number key"0" to "9" to input 4-digit password. The default				
		password is 3308.				
		DEFAULT: Resets all settings to the factory defaults.				

# Customizing DVD settings

Using the General Setup page:

- 1. Press the SETUP button on the remote control. The DVD Setup menu opens.
- 2. Press ◀ or ▶ to select the General Setup page, then the list opens.
- Press ▼or ▲to select from the following options: TV DISPLAY ANGLE MARK OSD LANG CAPTIONS and SCREEN SAVER
- 4. Press ENTER to open the list, then press ▼ or ▲ to choose the setting. Press ENTER again to confirm.
- 5. Press SETUP to exit this setup menu.

Using the Speaker Setup page:

- 1. Press the SETUP button on the remote control. The DVD Setup menu opens.
- 2. Press ◀ or ▶ to select the Speaker Setup page, then the list opens.
- 3. Press ▼or ▲to select from the following options: DOWNMIX DUAL MONO and DYNAMIC.
- 4. Press ENTER to open the list, then press ▼ or ▲ to choose the values. Press ENTER again to confirm.
- 5. Press SETUP to exit this setup menu.

Using the Preference page:

Note: This setting is only available in STOP mode or when a disc is not loaded in your player

- 1. Press the SETUP button on the remote control. The DVD Setup menu opens.
- 2. Press ▼ or ▲ to select the Preference page, then the list opens.
- Press ▼ or ▲to select from the following options: TV TYPE AUDIO SUBTITLE DISC MENU PARENTAL - PASS WORD and DEFAULT.
- 4. Press ENTER to open the list, then press ▼ or ▲ to choose the setting. Press ENTER again to confirm.
- Press SETUP to exit this setup menu.

Vote:

This icon indicates that it is locked. You cannot change the Parental Control Level rating.

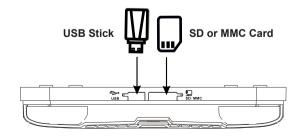


This icon indicates that it is unlocked. You can change the Parental Control Level rating.

# USB Stick and SD Memory Card use

#### Playing USB or SD/MMC Devices

- 1. Insert the USB Stick or SD/MMC Card into the appropriate socket on the VTM1 as shown.
- 2. Using the SRC button on your Remote Control select DVD-IN mode, then press and hold the SRC button for >2 sec. The VTM1 will read the contents of your memory device and display its contents.
- Press ▼ or ▲ to navigate through this menu and press ENTER to make your selection.



Note: USB products such as Portable Hard Drives (FAT 32) and MP3 Players are not supported.

Use only compact discs bearing the mark and DVDs that bear the mark.

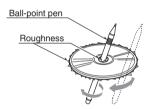
Some recorded discs CD-R/CD-RW or DVD-R, DVD+R and DL may not be usable.

# Handling

 Compared to standard discs CD-R/CD-RW and DVD-R/+R/DL discs are easily affected by temperature and humidity and will not be playable if damaged.

Therefore, do not leave them for a long time in the car.

 New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip.
 Use a ball-point pen or the like to remove any roughness from the edge of the disc.



- It is recommended that you use only specifically designed CD/DVD marker pens to label your discs.
- Do not use discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause malfunction or damage.
- Never play a disc with an adhesive label, cellophane tape or glue on its surface.
   If you try to play such a disc it may become jammed in your player, causing serious damage and requiring product servicing.

# Storage

- Do not expose discs to direct sunlight or any heat source.
- Do not expose discs to excess humidity, or dust.
- Do not expose discs to direct heat from interior heaters.

# Cleaning

- To remove fingermarks and dust, use a soft cloth and wipe in a straight line from the center of the compact disc to the circumference.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean discs.
- After using special disc cleaner, let your CD or DVD dry off well before playing it.

### **LCD Panel Maintenance**

- Wipe off any dust gently with a soft, dry cloth.
- The surface is easily scratched; do not rub it with hard objects.
- Do not use any chemical solvent, cleaning agent or corrosive detergent to clean away dirt on the surface of the screen.

If operation freezes, the screen goes black or the unit should otherwise not function properly, try turning the unit OFF and back ON. If the unit does not respond, press the reset switch (see page 9) .

Problem	Cause	Solution	
	Disc inserted incorrectly	Reinsert the disc with the label side up (facing the ceiling).	
Player does not play disc	Disc format is not supported	Check the disc format.	
	Disc is dirty or scratched	Clean or replace the disc.	
The player suddenly stopped working or the screen went black	Player error	Try turning the player off and on. If the player still doesn't respond, press the reset button.	
Digues decen't turn ON	The car ignition (or ACC/Accessory) is off	Insert the key into the ignition and turn it to ACC/Accessory.	
Player doesn't turn ON	Condensation in the player	Wait for about one hour or until condensation evaporates.	
	Battery needs replacing	Replace the battery.	
Player operates erratically	Dirty IR window on the Player or remote control	Clean the player's and the remote control's IR windows.	
	Loose connections	Check and tighten all connections.	
Picture Skips Intermittently	Disc is dirty or scratched	Clean or replace the disc.	
Blurred picture	Possible interference. (E.g. high voltage wire, transformer or aircraft etc)	Move the vehicle away from the interference.	
The picture on the screen is dark	The equipment locates at a low temperature area.	This is a characteristic of LCD displays in low temperature, it will restore to normal brightness afte starting the display for few minutes.	
	Picture is dull / not bright enough	Adjust the brightness setting.	
	Headphones are switched off.	Turn on the headphones.	
No sound can be heard from the IR wireless headphones.	The battery in the headphone is low.	Replace or recharge the batteries.	
	There is object blocking the transmitting module or beyond the effective receiving area.	Remove the blocking object or move back to the receiving area.	
Disc cannot be inserted or ejected	Player must not be in AV1 or AV2 mode. Discs are only accepted or ejected in DVD mode.	Press the SRC button to select DVD mode.	
,	The Car ACC or IGN is OFF.	Turn the IGN key to ACC	

# **5. SPECIFICATIONS**

	Item	Specification	
	Power Source	Vehicle battery (DC +10V ~ +16V)	
	Operating Voltage	DC +14V	
	Mechanism	Manual Open / Close	
S S	Display Angle	Vertical Adjustable: Up/Down <150°	
NOIT	Pixels	800RGB(W)x480(H)	
SPECIFICATIONS	Viewing angle (up/down/left/right)	45/55/65/65	
SPEC	Operating Current / Voltage	<2000mA / Typical V <sub>DD</sub> =14V	
	Dome Light	2W	
	Operation Temperature	-5°C to +50°C	
	Storage Temperature	-20°C to +70°C	

Note: Specifications and design are subject to change without notice for further improvement.

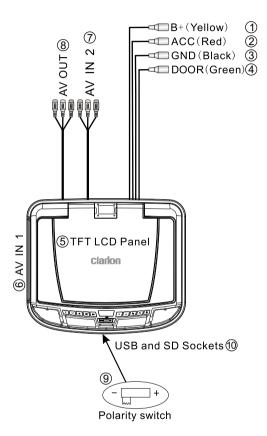
# Package Contents

	Name of Parts	Quantity
	Player	1
	Remote Control & CR2025 Battery	1
တ	IR Headphones	2
ENT	AV cables	3
PACKAGE CONTENTS	AAA Batteries for Headphones	4
SE C	Power Cable	1
KAC	ST4.2x16 screw	6
PAC	CM 4x10 screw	4
	Metal mounting plate	1
	User's manual	1
	Rubber Gasket	1

▲ Use only the contents of this package to install and use this player. The use of any other accessories not provided may result in damage.

# 6. INSTALLATION

# Wiring and Connections



### 1. Battery + Lead (Yellow)

Connect to the POSITIVE terminal of the car battery (Fused).

### 2. ACC Power Lead (Red)

Connect to a current capable, switched +ACC connection of the vehicle (Fused).

# 3. Ground Lead (Black)

Connect securely to a good, clean chassis ground in the vehicle.

Ensure the connection is to bare metal.

#### 4. Door Lead (Green)

Connect to the door sensor/switch that controls the existing vehicle dome light.

#### 5. TFT LCD Panel

Leave the protective film on the LCD screen until the installation is complete.

### 6. AUX AV Input 1

Connect to the 3.5mm AV socket on the side of the VTM1 using the RCA lead (supplied). Portable video devices can use this port.

#### 7. AUX AV Input 2

Connect to accessories installed in the vehicle such as dash mounted video players/TV tuners

#### 8. AUX AV Output

An auxilliary AV output for connection to a video monitor. The audio level is not affected by the volume setting of the VTM1.

### 9. Dome Light Polarity Switch

Fully slide this switch to suit the polarity (+/-) of the vehicle dome light circuit.

#### IMPORTANT:

Only adjust this switch to its correct position **BEFORE** connecting the Green Door Lead.

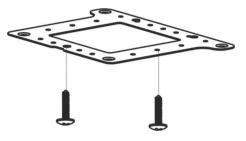
Do not adjust this switch while the VTM1 is switched on. This may result in damage.

## 10. USB and SD/MMC Sockets

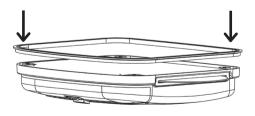
For use with USB Keys and SD/MMC cards containing JPEG,. MP3 or AVI files. Captive rubber caps help protect the internal contacts from dirt and dust.

# Installing the player: General Guide Only

- 1. Identify what the polarity the vehicle Dome Light circuit is. \* Refer to section 6 : "9. Polarity Switch" on Page 16 and set this switch correctly.
- 2. To prevent short circuits, remove the key from the ignition and disconnect he terminal of battery.
- 3. Disconnect the original dome light.
- 4. Attach the metal mounting plate to the roof. Check the available roof clearance, and if suitable, use the supplied ST4.2\*16 self-threading screws. Note: Do not to cover the original dome light opening.

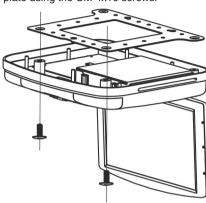


- 5. Pull out the original dome light Power wire and signal/power cable through the original dome light opening.
- 6. Place the rubber on the player surround



- 7. Connect input and output cables.
- 8. Connect the wire harness in the following order: Ground wire (Black), Battery wire (Yellow), +ACC wire (Red) and Door wire (Green).

9. Attach the DVD player to the metal mounting plate using the CM 4x10 screws.



# 10. Reconnect the terminal of the battery.

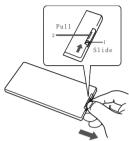
#### Notes:

- Remember to connect the red wire to the ACC of the ignition switch. Or the battery charge might be drained prematurely.
- If the fuse is opened, first make sure that the cables have not caused a short circuit, and then replace the old fuse with a new one of the same ratings.
- Do not have unconnected cables or terminals touch the metal on the car or any other conducting material.
- To prevent short circuits, do not remove the caps from unused terminals or from the ends of the unconnected cables.
- After the display unit is installed, check and make sure the brake lights, blinkers, wiper, etc. on the vehicle are working properly.
- Insulate unconnected wires with vinyl tape or other similar material.
- Make sure that cords and other items do not get caught in the panel when you close it. For your safety, be sure to close the LCD panel when not use it

# Installing remote control battery

# 1. Pull out the battery holder.

Follow the arrow 1 slide it to the right toward the battery while at the same time pull the battery holder away from the remote control.



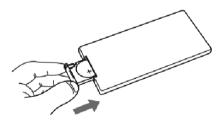
### 2. Place the battery.

Place the new lithium battery with the (+) side up. (The type of battery: CR2025)



### 3. Push the holder back.

Using the finger to push in the holder back until the locking sound is heard.



4. Aim the IR Remote Control directly at the DVD player, then press any button to operate.

#### Notes:

- Use the remote control only inside the vehicle. Tinted windows will effect the signal of the remote controls transmission.
- Useable range of the IR Remote Control is approx. 3 meters.
- Direct sunlight or very bright light reduces sensitivity of the remote control receiver. Be sure the player is not located in direct sunlight.
- Any obstruction between the remote sensor and remote control may disrupt reception.