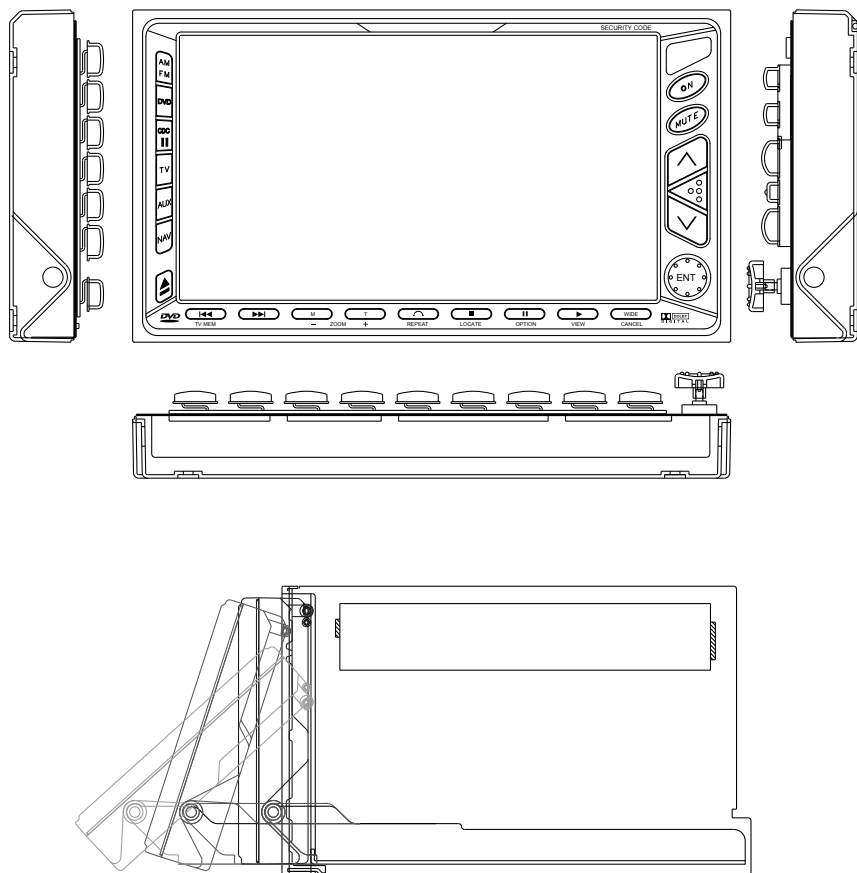# OPERATING INSTRUCTIONS
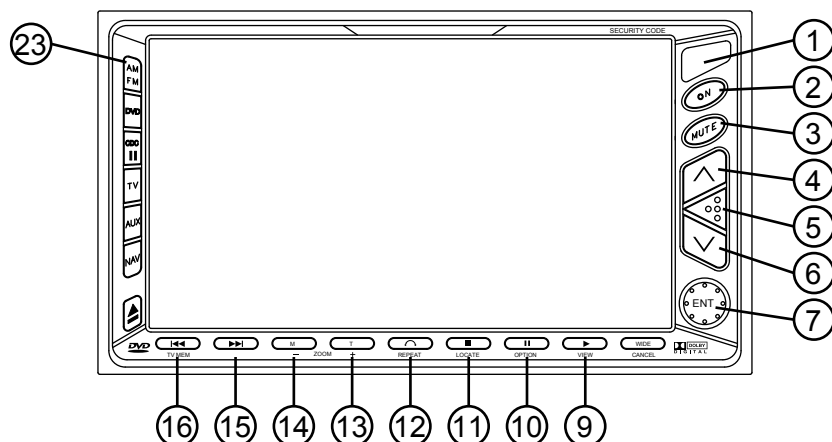

Before operating the unit, please read these instructions carefully

OT01004710-20020606

Table of Contents

1	Infra-red receiver and security indicator
2	ON/OFF
3	MUTE
4	VOLUME UP
5	SETTINGS MODE Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio
6	VOLUME DOWN
7	JOYSTICK Manual / Seek Tuning
9	LOC Local / Distance Selector
10	ASM Automatic Station Memory
11	PRESET MEMORY 6
12	PRESET MEMORY 5
13	PRESET MEMORY 4
14	PRESET MEMORY 3
15	PRESET MEMORY 2
16	PRESET MEMORY 1
23	AM/FM RADIO select

Selecting waveband

By sequentially pressing the *AM FM* button, two FM bands (FM1 & FM2) and one AM band can be selected. The chosen band and the frequencies stored in the Memory Presets will be confirmed on the display.

Manual Tuning

Pressing the *JOYSTICK* up will increase the tuning frequency and pressing down will decrease the tuning frequency.
The radio will tune in steps of 9 KHz for AM and 0.1 MHz for FM.
If the button is kept depressed, the frequency will increase or decrease at a fast rate until the button is released.

Seek Tuning

This function seeks radio stations automatically.
Pressing the right hand side of the *JOYSTICK* will automatically select the next higher frequency radio station, and pressing the left hand side of the *JOYSTICK* will automatically select the next lower frequency radio station.
As the radio can seek weak and noisy distant radio stations, it is recommended to switch the multi function button 8 below "LOC" to the Local On position. This limits the seek tuning to stronger local radio stations only. "LOC" will be indicated on the display. For more information on LOCAL refer to "Local / Distance Selector" section of handbook.

Radio Memory Presets

Briefly pressing one of the multi function buttons 1 to 6 (presets), will recall the radio station frequency which has been stored into that particular preset. The corresponding button number will be highlighted on the display.
18 radio station frequencies (6 for AM, 6 for FM1 and 6 for FM2) can be stored into the 6 preset buttons.
PLEASE NOTE: IF the ASM function is initiated, the previously stored frequencies will be replaced. Refer to "Automatic Radio Station Memory" section of this manual

How to store radio stations into presets

Select the desired waveband, AM, FM1 or FM2 using the AM FM Waveband selector button. Tune in the desired radio station using the *JOYSTICK*.
Press and hold any one of the multi function buttons 1 - 6. After 2 seconds the audio will briefly mute, indicating that the chosen radio station is stored into the preset.
The number of the corresponding button and the selected frequency will be shown on the display.
Repeat the same procedure for the other five preset buttons. Each of the six presets allows the storage of a radio station in AM, FM1 & FM2.
To override a previously stored radio station, repeat the above procedure.

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

RADIO OPERATION

RADIO RECEPTION

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

Automatic Station Memory
This feature, when activated, will search for the strongest radio stations. It is of great benefit when away from the home location, as the local radio stations can be stored without knowing their frequency.

To activate the ASM system
Select the desired waveband, "FM1, FM2 or AM" using the AM FM button.
Briefly press the *ASM* button, "ASM" will be shown on the display, indicating that it is in the process of finding and storing radio stations.
When storing is complete, the six strongest radio stations will automatically be stored in frequency order and the radio station which is memorised in preset No. 6 will play.
To listen to the stored radio stations, press the multi function button corresponding to the displayed frequency.

PLEASE NOTE:
Any radio station which is weaker than the ASM threshold level, will not be stored.
If less than six radio stations of sufficient signal strength are received in the selected band, the ASM system will search twice and then store the received stations in frequency order.
To override an ASM stored frequency, follow "How to store radio stations into presets" section of handbook.

Local / Distance Selector
The LOCAL switch adjusts the radio's seek sensitivity in both wavebands. This will cause the seek tuning to stop only on local and strong radio stations with good reception and clear sound quality.
To activate this function, press the multi function button 8 (below "LOC" on display). "LOC" will be shown on the display when active, "DX" will be shown when Local is turned off.
To be able to seek weak and distant radio stations, switch LOCAL off.
The LOCAL setting has no effect during the "ASM" Auto Storing Process.

FM "STEREO" Indicator
"STEREO" will illuminate if a stereo radio station with sufficient strength is received in the FM band.
If the stereo signal becomes weak, the radio will automatically and gradually switch to mono, but "STEREO" may still be shown on the display.

Antenna information
For best radio reception it is recommended to have the antenna fully extended, however, when in areas with low obstacles, tree branches etc., lowering the antenna will reduce the chance of the antenna mast being bent or damaged.
The antenna should be periodically cleaned with a soft cloth, water and a mild detergent. This not only helps the antenna to retract but also aids radio reception.
If the antenna becomes bent or is broken, it is suggested to have a replacement mast fitted by your Local Dealer.

Due to varying reception locations, car radios have performance limitations that may on occasions create the impression that your radio is malfunctioning. To assist you in understanding what can be expected from your new radio, we have set out below how reception may vary from time to time and under certain conditions.

AM and FM
There are two main types of radio broadcasts. AM or Amplitude Modulation in which the amplitude of the signal is varied to produce the sound and FM or Frequency Modulation in which the frequency is varied to produce the sound.

RANGE
AM broadcasts tend to follow the earth's curvature and also reflect from the upper atmosphere, which enables long range reception, especially after sunset.
FM transmissions are basically line-of-sight (similar to TV signals) and are reflected by buildings, mountains etc., but not by the upper atmosphere.

INTERFERENCE
Interference is caused by either natural or man made electrical disturbances. This can affect the amplitude of the signal being received. AM signals are more prone to this type of interference than FM signals. This type of interference has little or no effect on the frequency of the received signal, thus AM is susceptible to interference from power lines, fluorescent lighting, neon signs, traffic light control circuits, overhead tram wires and electrical storms. With FM reception, these amplitude variations are filtered out, leaving a relatively clear signal, (refer to "Peculiarities of FM Mobile Reception") making this one of the major advantages of FM broadcasts.
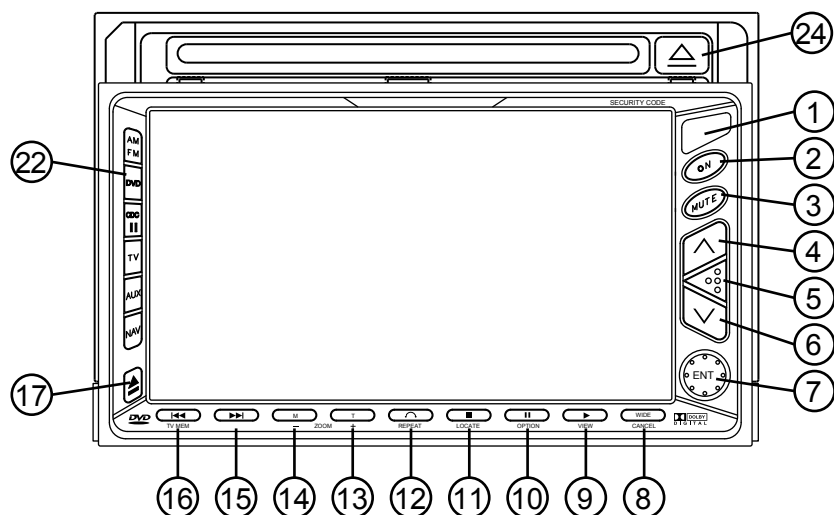
PECULIARITIES of FM MOBILE RECEPTION
A mobile FM receiver cannot be expected to continuously provide the quality of FM reception you may experience on your home receiver. Contrary to popular opinion, FM broadcasts are not static free, and although your new radio has a built-in electronic interference absorption circuit, some static will be evident from time to time, especially in areas without a direct line of sight to the transmitter.

There are two phenomena peculiar to VHF mobile reception.

   FLUTTER   As VHF signals reflect off solid objects, it is possible to pass through areas of "Shadow" caused by tall buildings and/or hilly terrain, which effectively block out the signal. As the vehicle passes in and out of shadow areas, the level of signal will vary at a rapid rate, creating a flutter type of interference to the signal.

   DISTORTION (MULTIPATH)   Distortion may occur when the direct signal from the transmitter and a reflected signal reach the antenna at the same time and either cancel or aid each other, like ghosting on a TV. This results in intermittent distortion of the signal whilst moving or constant distortion when stationary, such as at a traffic light or when parked. Should this distortion occur while stationary, moving the vehicle approximately one or two meters would on most occasions correct the problem.Circuitry has also been included in this radio to reduce this type of distortion.

1   Infra-red receiver and security indicator
2   ON/OFF
3   MUTE
4   VOLUME UP
5   SETTINGS MODE   Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio
6   VOLUME DOWN
7   JOYSTICK + ENTER
8   WIDE   Screen format: NORMAL, CINEMA, FULL, ZOOM
9   PLAY
10   PAUSE
11   STOP
12   MENU RETURN
13   TITLE
14   MENU
15   NEXT TRACK
16   PREVIOUS TRACK
17   OPEN FRONT SCREEN

22   DVD select

24   Eject Button

The DVD player has the ability to play DVD, VCD, Audio CD, MP3 audio and MPEG video, as well as display JPEG and BMP images.

To play a DVD or VCD
Press the *DVD* button to activate DVD play.
Press the ⏏ button to lower the front screen and access the disc insertion slot. Insert DVD or VCD, the disc will automatically load, indicated by "DISC LOADING" on the display.Once loaded the disc will start to play if there is no recorded menu. If the disc has more than one title, a menu screen will appear on the screen.
Use the *JOYSTICK* to scroll to preferred title. Press the ENT button to play selected title.
To return to Title Page, press the *MENU* or TITLE buttons
PLEASE NOTE: The On Screen Display (OSD) will show "INVALID DISC" if the disc region code does not correspond with the unit setting.

Pause
Press the *PAUSE* button to pause. Press the *PLAY* button to resume play.

Stop
During DVD/VCD playback press the *STOP* button to stop play. The player will enter the resume playback feature, indicated by "PRESS PLAY TO CONTINUE" on the display. If the *PLAY* button is pressed next, play will resume. If the *STOP* button is pressed twice the resume playback function will be cancelled, indicated by "STOP" on the display.

DVD menu
To access the DVD/VCD menu, press the *MENU* button.
Use the *JOYSTICK* button to scroll to the menu item and press ENT to start selection.

DVD Title
Some DVD discs may have more than one title. If the disc has a title menu, this can be accessed by pressing the *TITLE* button. If there is no Title menu, pressing this button will access the DVD menu.Use the *JOYSTICK* buttons to scroll to the menu item and press *ENT* button to start selection.

Menu Return
Pressing this button during menu access will return to the previous menu.

DVD Eject
Press the ⏏ button on screen to lower the front screen, then press the eject button (⏏) beside the disc insertion slot to eject the disc.
If the disc is not removed within 15 seconds of being ejected, it will be drawn back into the player to prevent it from being accidentally damaged.Do not attempt to close the screen when a disc is protruding from the slot as this may damage the disc.

DVD Forward / Reverse

Press the ▶▶ button to skip to the beginning of the next scene, or by pressing the button repeatedly, to the beginning of following scenes until the last scene is reached.
Press the ◀◀ button to return to the beginning of the scene which is being played, or by pressing the button repeatedly, to the beginning of the previous scenes until the start of scene one is reached.

Adjusting screen view size

To adjust the screen size, press the *WIDE* button to scroll through the screen size options (NORMAL, CINEMA, FULL, ZOOM).

NORMAL   Standard Screen Size   CINEMA   Cinema Screen ratio 16:9
FULL   Full Screen Display   ZOOM   Enlarged Screen View

To play an Audio CD

Press the *DVD* button to activate DVD play.
Press the ▲ button to lower the front screen and access the disc insertion slot. Insert CD, the disc will automatically load, indicated by "DISC LOADING" on the display.Once loaded, the disc will start to play.

Pause

Press the *PAUSE* button to pause. Press the *PLAY* button to resume play.

Stop

During CD playback press the STOP button to stop play. The player will enter the resume playback feature, indicated by "PRESS PLAY TO CONTINUE" on the display. If the *PLAY* button is pressed next, play will resume. If the *STOP* button is pressed twice the resume playback function will be cancelled, indicated by "STOP' on the display.

Disc Eject

Press the ▲ button on screen to lower the front screen, then press eject button (⌷) beside the disc insertion slot to eject the disc.
If the disc is not removed within 15 seconds of being ejected, it will be drawn back into the player to prevent it from being accidentally damaged.

CD Forward / Reverse

Press the ▶▶ button to skip to the beginning of the next track, or by pressing the button repeatedly, to the beginning of following tracks until the last track is reached.
Press the ◀◀ button to return to the beginning of the track which is being played, or by pressing the button repeatedly, to the beginning of the previous tracks until the start of track one is reached.

Digital File Playback (MPEG Video, MP3 Audio, JPEG Image, BMP Image)

Press the *DVD* button to activate DVD play.
Press the ▲ button to lower the front screen and access the disc insertion slot. Insert disc, the disc will automatically load, indicated by "DISC LOADING" on the display.
Once loaded the display will show a list of viewable files.
Using the *JOYSTICK*, select file to view and press the *ENT* button to view.
If the selected file is a video or audio clip, the clip will play and then proceed to next file. If the selected file is an image, the image will be displayed for a short period of time and then proceed to next file.

Selecting files

Press the *STOP* button to enter "SMART NAVI" mode. Use the JOYSTICK Up and Down to highlight desired folder or file, or *JOYSTICK* Left and Right to alternate between column A, column B or Play Mode selector (refer to "File Play Mode" section). Press the ▶▶ button to advance to next page, or the ◀◀ button to return to previous page. Once the desired folder or file is highlighted press the *ENT* or *PLAY* buttons.

Next / Previous File

To manually advance to the next file, during playback, press the ▶▶ button, or by pressing the button repeatedly, to the beginning of following files until the last file is reached.

To manually view the previous file, during playback, press the ◀◀ button to return to the beginning of the file which is being played, or by pressing the button repeatedly, to the beginning of the previous files until the first file is reached.

Pause

Press the *PAUSE* button to pause. Press the PLAY button to resume play.

Stop

During Digital file playback press the *STOP* button to return to the "SMART NAVI" Screen.

Disc Eject

Press the ▲ button on screen to lower the front screen, then press the ▲ button beside the disc insertion slot to eject the disc.
If the disc is not removed within 15 seconds of being ejected, it will be drawn back into the player to prevent it from being accidentally damaged.Do not attempt to close screen while disc is protruding from insertion slot, as the screen closing will damage disc.

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

DVD OPERATION

DVD RECEPTION

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

File Play Mode

To change the way the unit plays the files on a disc, use the *JOYSTICK* Left and Right to highlight "PLAY MODE". The use the *JOYSTICK* Up and Down to select play mode:

SINGLE	Plays selected file
REP-ONE	Plays the selected file then repeats
FOLDER	Plays the files from selected Folder
FOLDER R	Plays the files from selected Folder then repeats
DISC	Plays all files on disc
DISC REP	Plays all files on disc then repeats
RANDOM	Plays files of selected folder in random order
SHUFFLE	Plays all files on disc in random order
PROGRAM	Play files in a programmable order

Press the *ENT* button to initiate selected play mode.

Single Play Mode

Select a file from menu and press the *PLAY* button. The selected file will play and stop if "SINGLE" Play mode is selected or play and repeat if "REP-ONE" Play mode is selected. Pressing the ◄◄ or ►► button during Single or Rep-one mode will have no effect..

Folder Play Mode

Select the desired folder from the menu, then select the first file and press the *PLAY* button. If a file other than the first file is selected, all of the remaining files will be played in order. All files in the selected folder will play in order when "FOLDER" Play mode is selected. If "FOLDER R" Play mode is selected, all files will play and then the entire folder will repeat. Pressing the ◄◄ button during playback will return to the previous file or pressing the ►► button will advance to the next file.In "FOLDER" Play mode, pressing the ◄◄ or ►► buttons will scroll through the images from first image to last image (eg. 1, 2, 3, 2, 1), whereas in "FOLDER R" Play mode it is possible to continuosly scroll through the folder (eg. 1, 2, 3, 1, 2, 3).

Disc Play Mode

Select a file from the menu, then press the *PLAY* button. If a file other than the first file is selected, all of the remaining files on the disc will be played in order. All files on the disc will play in order when "DISC" Play mode is selected. If "DISC REP" Play mode is selected all files will play and then the entire disc will repeat. Pressing the ◄◄ button during playback will return to the previous file or pressing the ►► button will advance to the next file.

Random / Shuffle Play Mode

"RANDOM" Play mode will play files from a selected folder in a random order. Select a file from the menu, then press the *PLAY* button.
"SHUFFLE" Play mode will play all files on the disc in a random order. Select a file from the menu, then press the *PLAY* button.
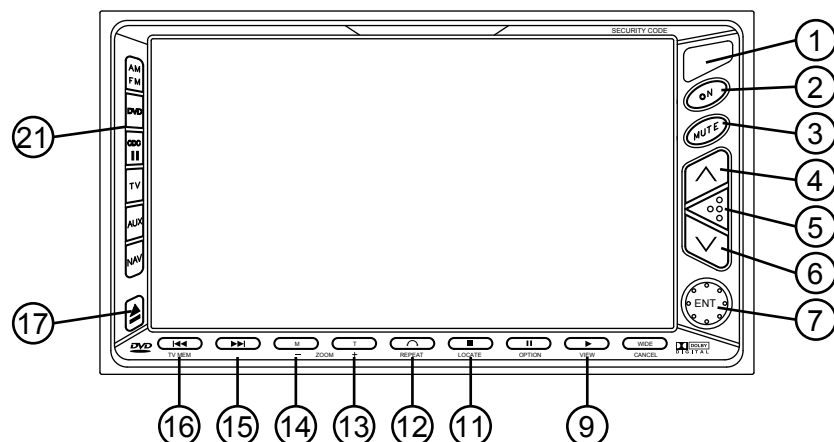
Program Play Mode

To program files in a selected order, set Play mode to PROGRAM. Using the *JOYSTICK*, select the file to add to program list and press the *ENT* button. Repeat procedure until all desired files are stored. Press the *PLAY* button to commence playback.

Tile View of Images

Press the *MENU* button to view thumbnail versions of the image files, nine per page, if a folder contains images. Use the *JOYSTICK* to select an image and press the *ENT* button to view. To advance to the next page, press the ►► button and to return to the previous page press the ◄◄ button.

PLEASE NOTE:
Not all digital format files can be viewed/played on this unit and errors reading files some may occur.

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

CDC OPERATION (Option)

CDC OPERATION (Option)

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

1   Infra-red receiver and security indicator
2   ON/OFF
3   MUTE
4   VOLUME UP
5   SETTINGS MODE   Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio
6   VOLUME DOWN
7   JOYSTICK

9   DETAILS / TIME DISPLAY

11   TRACK RANDOM
12   TRACK REPEAT
13   TRACK SCAN
14   DISC RANDOM
15   DISC REPEAT
16   DISC SCAN
17   OPEN FRONT SCREEN

21   CD CHANGER select

CD CHANGER OPERATION   (When this option is fitted)
Before operating, load the disc magazine with discs, insert it into the CD Changer and
close the changer door.

To play / pause CD
Press the *CDC* button to start CD changer operation.
The display will show the CD functions, including disc & track numbers, selected play
function and volume. The disc and track numbers will be replaced with the elapsed track
times when time display is selected.
Press the button again to pause the CD, press it once more to resume play.
While paused, the play indicator will be replaced with a pause indicator " ‖ " on the display.

If the *CDC* button is pressed with no Magazine loaded, "NO MAGZINE" will be shown on
the display. The unit will resume in Radio FM1.
If the *CDC* button is pressed with no CD's loaded, the CD Changer will check all disc
locations. At the completion, the display will return to Disc 1 Track 1.

Disc Selection
Press the *JOYSTICK* Up button to advance to the next disc.
Press the *JOYSTICK* Down button to select the previous disc.
After the button has been released, the changer will select the chosen disc. During this
period, the disc and track number will be displayed.

Track Selection
Press the *JOYSTICK* Right button to skip to the beginning of the next track, or by pressing
again to further tracks until the last track on the CD is reached.
Press the *JOYSTICK* Left button to skip to the beginning of the track which is being played,
or by pressing again to the start of previous tracks, until track 1 is reached.
If less than three seconds have been played on the current track, the beginning of the
previous track will be selected instead of the beginning of the current track.

CD / Time Display
To alternate display from CDC Disc, Track information to elapsed track time, press the ▶
VIEW button.

Scan Discs
Press the Multi function button corresponding to "DISC SCN" to sequentially sample the first 10 seconds of the first track on each disc in the magazine.
During this time "DISC SCAN" will be highlighted on the display and the disc and track numbers will be shown on the display.
To stop Disc Scan, press the button again.

Repeat Disc
Press the Multi function button corresponding to "DISC RPT" to replay the current disc. "DISC REPEAT" will be highlighted on the display when the feature has been selected.

To stop Disc Repeat, press the button again.

Random Play all discs
Press the Multi function button corresponding to "DISC RDM" to randomly play all discs in the magazine. When selected, "DISC RANDOM" will be highlighted on the display.
To stop Random Play, press the button again.
For best operation of this feature, it is recommended that the magazine be fully loaded with discs.

Scan Tracks
Press the Multi function button corresponding to "TRACK SCN", to sequentially sample the first 10 seconds of all tracks on all discs in the magazine. During this time, "TRACK SCAN" will be highlighted on the display.
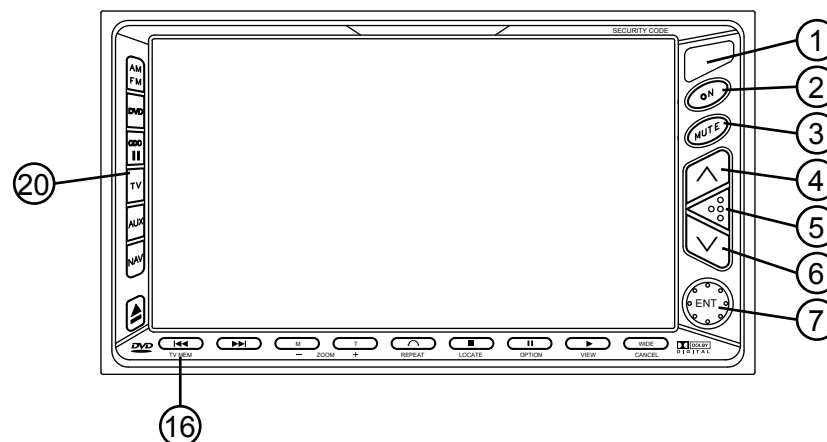
To stop Track Scan, press the button again.

Repeat current track
Press the Multi function button corresponding to "TRACK RPT" to replay the current track. "TRACK RPT" will be highlighted on the display when this function has been selected. To stop Track Repeat, press the button again.

Random Play current disc
Press the Multi function button corresponding to "TRACK RDM" to randomly play all tracks on the currently selected disc. When selected, "TRACK RANDOM" will be highlighted on the display.

To stop Random Play, press button again.

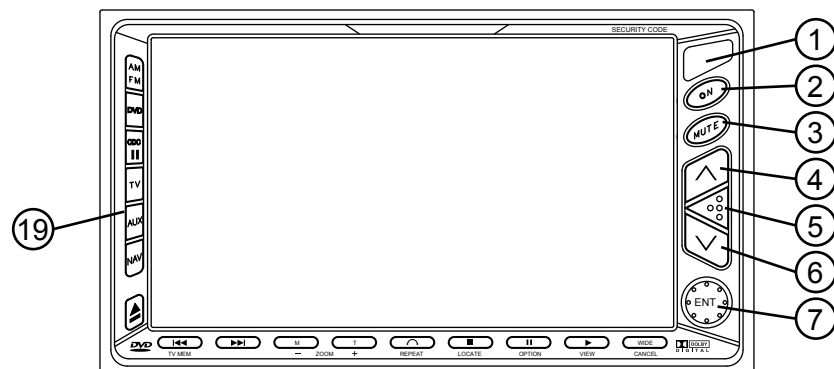| 1 | Infra-red receiver and security indicator |
2	ON/OFF
3	MUTE
4	VOLUME UP
5	SETTINGS MODE Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio
6	VOLUME DOWN
7	JOYSTICK
16	TV Memory
20	TV select

TV OPERATION
Pressing the TV button will turn the TV on. The display will show the current TV station channel number on the display for approximately 5 seconds. The TV stations have been preset for your location.

To Change channels
Press the *JOYSTICK* Up or Down to change the channel up or down.

TV Memory
It is possible to store up to 20 stations into the memory. To access TV memory, press the TV MEM button. Use the *JOYSTICK* Up and Down buttons to select Memory Location. Use the JOYSTICK Left or Right to select station to be stored into a memory slot. Once stored use the *JOYSTICK* Right and Left to select stored memory stations. If a memory slot is left empty it will not be displayed through memory scroll.
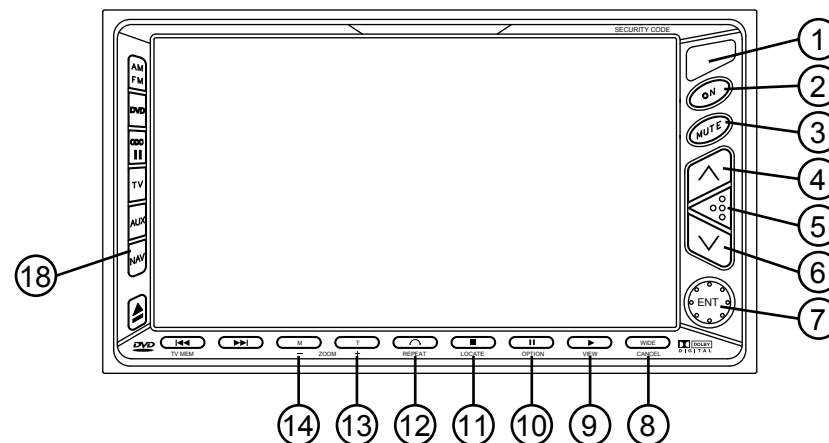
2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

LAYOUT

AUDIO SETTINGS

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

1   Infra-red receiver and security indicator
2   ON/OFF
3   MUTE
4   VOLUME UP
5   SETTINGS MODE   Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio
6   VOLUME DOWN
7   JOYSTICK

19   AUX select

UX OPERATION

The rear view camera will be activated when the vehicle is reversing. No other functions
(AM/FM, DVD, etc.) can be used when rear view camera is active.

1   Infra-red receiver and security indicator
2   ON/OFF
3   MUTE
4   VOLUME UP
5   SETTINGS MODE   Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio
6   VOLUME DOWN
7   JOYSTICK
8   NAV Cancel
9   NAV View
10   NAV Option
11   NAV Locate
12   NAV Repeat
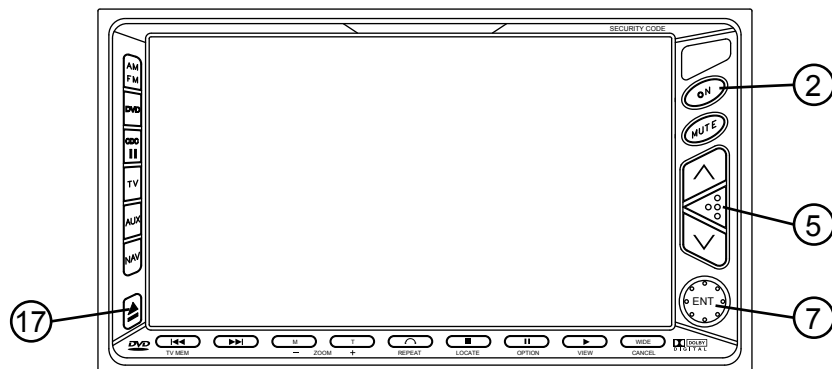13   NAV Zoom +
14   NAV Zoom -

18   NAV select

NAV OPERATION

Press the *NAV* button to activate the navigation system.

For instructions on Navigation functions, please refer to "Navigation Handbook".

NAV Audio Output

Press the *SETTINGS* button one or more times until "NAV AUDIO" is highlighted on the
display. Using the *JOYSTICK*, adjust Nav audio output (FR - Front Right, FL - Front Left,
ALL - All Speakers, FRONT - Front Speakers).

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

SCREEN SETTINGS

SETTINGS

2 DIN DVD PLAYER
6.5" WIDE SCREEN MONITOR

2   ON/OFF

5   SETTINGS MODE   Bass, Treble, Speaker, Color, Brightness, Tint, Nav Audio

7   JOYSTICK

17   OPEN FRONT SCREEN

To Open / Close Front screen
Press the ▲ button to lower front screen.
To return the screen to original position, press and hold the ▲ button for more than 5 seconds.
To adjust the angle of the screen, press the ▲ button to fully lower the screen. Then briefly press the ▲ button again to adjust the screen angle. Continue to press the button to set the desired screen angle.

Color
Press the *SETTINGS* button one or more times until "COLOR" is highlighted on the display. Use the *JOYSTICK* up and down or Left and Right to adjust Color level. (Min = 0, Max = 60)

Brightness
Press the *SETTINGS* button one or more times until "BRIGHTNESS" is highlighted on the display. Use the JOYSTICK up and down or Left and Right to adjust Treble level. (Min = 0, Max = 60)

Tint
Press the *SETTINGS* button one or more times until "TINT" is highlighted on the display. Use the *JOYSTICK* up and down or Left and Right to adjust Tint level. (Min = 0, Max = 60)

WARNING: DO NOT WATCH SCREEN WHILST DRIVING

CAUTION
  • Use of controls or performance of procedures other than those specified herein may result in hazardous radiation.
    Do not open the lid or disassemble the CD/DVD mechanism as exposure to laser beam may be harmful.

This system uses the following laser source;
      wavelength: 785 to 815nm
      Laser output: 0.5mW (max.)