

MCS-650

Instruction manual

Mini DVD System

The objective of every Tangent product is that fundamentally correct design can produce a product capable of achieving excellent performance and affordability.

www.tangent-audio.com

This operation manual supplies all the information that you need to have about your Tangent MCS-650. Please read this operation manual carefully before you start using the unit!

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SAFETY PRECAUTIONS

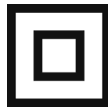
A triangle with a lightning symbol draws the user's attention to "dangerous voltage" without insulation in the cabinet which may be high enough to entail a risk of electric shock.



A triangle with an exclamation mark draws the user's attention to important instructions for use and maintenance in the enclosed manual, which should be studied.



A symbol for CLASS II (double insulation)



WARNING:

TO MINIMISE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. DO NOT OPEN THE CABINET AS IT CONTAINS DANGEROUS VOLTAGE. ONLY QUALIFIED TECHNICIANS ARE ALLOWED TO CARRY OUT REPAIR AND SERVICE.

CAUTION:

If the plug of the power cord needs to be replaced, it is important that the replacement is identical to the plug to be replaced, or that the new plug has been recommended by the manufacturer

TO AVOID ELECTRICAL SHOCK, IT IS IMPORTANT TO INSERT THE PLUG CORRECTLY INTO THE SOCKET.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: IT IS IMPORTANT THAT YOU READ AND OBSERVE BOTH THE INSTRUCTIONS IN THIS MANUAL AND THE INSTRUCTIONS ON THE UNIT. KEEP THIS MANUAL FOR FUTURE REFERENCE.

This unit was designed and manufactured with a view to providing maximum safety for the user. Incorrect use of the unit may cause electrical shock or fire. The protection devices built into this unit will protect the user if the procedures below are observed in connection with installation, use and repair. This unit is fully electronic and contains no parts that can be repaired by the user.

DO NOT REMOVE THE CABINET. RISK OF DANGEROUS VOLTAGE. ONLY QUALIFIED TECHNICIANS ARE ALLOWED TO REPAIR THE UNIT.

Read the manual

Upon unpacking the unit, please read the manual carefully and observe all the instructions given.

Power supply

Only the power supply indicated on the rating plate must be used for this unit. If you are not sure which power supply you have, please contact the distributor or the local electricity supplier.

Earthing or polarization

If the plug cannot be inserted properly into the socket, or if the plug does not fit, the unit must not be used in your country.

Ventilation

The cabinet is provided with slots and openings to ensure ventilation and reliable operation and to protect the unit against overheating. Do not block or cover these openings. The openings must never be blocked, for instance by placing the unit on a bed, a sofa, a carpet or similar surface.

Heat

Do not place the unit near sources of heat such as radiators, heat registers, ovens or other units that produce heat.

Water and moisture

The unit must not be placed close to water, such as bathtub, wash basin, kitchen sink or laundry tub, in a damp cellar or close to a swimming pool, etc.

Cleaning

Unplug the unit before cleaning. Do not use liquid detergents and aerosol cleaning agents. Use a dry cloth.

Power cords

Wiring must be organized to prevent people from stepping on the cables and to avoid pinching by objects placed on or beside them. Take special care around sockets and plug boxes and where the power cords leave the unit.

Overloading

Make sure that wall sockets, extension cords and plug boxes are not overloaded as this may lead to fire or electrical shock.

IMPORTANT SAFETY INSTRUCTIONS

Lightning

Unplug the unit for additional protection during thunder or when the unit is not used for prolonged periods. This will prevent damage to the unit from lightning and power surges.

Penetration of objects and liquid

Never push any foreign objects through the openings into the unit, as they may touch dangerous voltage points or short-circuit parts and thus cause fire or electric shock. Do not spill liquid on the unit.

Accessories

Do not place the unit on unstable surfaces such as a trolley, stand, tripod, shelf or table. The unit may fall and injure children or adults or be seriously damaged. Use only trolley, stand, tripod, shelf or table that is very stable or provided with the unit. The unit must be installed in accordance with the manufacturer's instructions and by means of installation equipment recommended by the manufacturer. If the unit is placed on a trolley, the trolley must be moved very carefully. Sudden stops, unnecessary force and uneven surfaces may cause the trolley to turn over.

Loads

Do not place heavy loads on the unit and do not step on it. The load may fall and cause serious injury to persons or damage to the unit.

Damage

Unplug the unit and contact qualified technicians in the following cases:

- A) If the power cord or the plug is damaged.
- B) If liquid has been spilled on the unit or objects have fallen into the unit.
- C) If the unit has been exposed to rain or water.
- D) If the unit does not work properly after adhering to the instructions in the operation manual. Only the settings described in the operation manual must be made as incorrect setting may result in damage and often will make it difficult for a qualified technician to make the unit work properly again.
- E) If the unit has been dropped or damaged in any other way.
- F) When the operation of the unit changes drastically, the unit requires service.

Service

Do not attempt to carry out any service work yourself. By opening or removing the cabinet, you will be exposed to dangerous voltage or other hazards. Any service work should be carried out by qualified technicians.

Spare parts

If spare parts are required, make sure that the service technician uses spare parts specified by the manufacturer or spare parts with the same characteristics as the original. Unauthorized spare parts may cause fire, electrical shock, etc.

Safety check

After service or repairs on the unit, ask the service technician to carry out a safety check to ensure that the unit is ready for use.

IMPORTANT INFORMATION

Handling instructions

- The top and back panel of the unit may become warm after prolonged use. This is not due to a defect.
- Turn off the power when the unit is not used.

Protect the power cord

- Follow the instructions below to prevent abnormal operation, electrical shock, fire or personal injury:
- Hold the plug firmly when inserting it into the socket.
- Avoid heat-producing devices.
- Do not place objects on the power cord.
- Do not carry out service work on or change the power cord.

Positioning

Do not place the unit in any of the fol. places:

- In sunlight, close to heat-producing devices or in an enclosed rack.
- In places with high temperatures (40C or more) or high relative humidity (90% or more).
- In dirty places as some internal parts may be damaged.

Do not put your fingers or any other objects into the unit

- Touching the internal parts is dangerous and may cause injury or damage. Do not open the cabinet.
- Do not place any foreign matter in the unit.

Interference

Placing the unit near a television set, radio or video player may cause poor picture and sound quality. In that case, move the unit further away from the television set, radio or video player.

Condensation

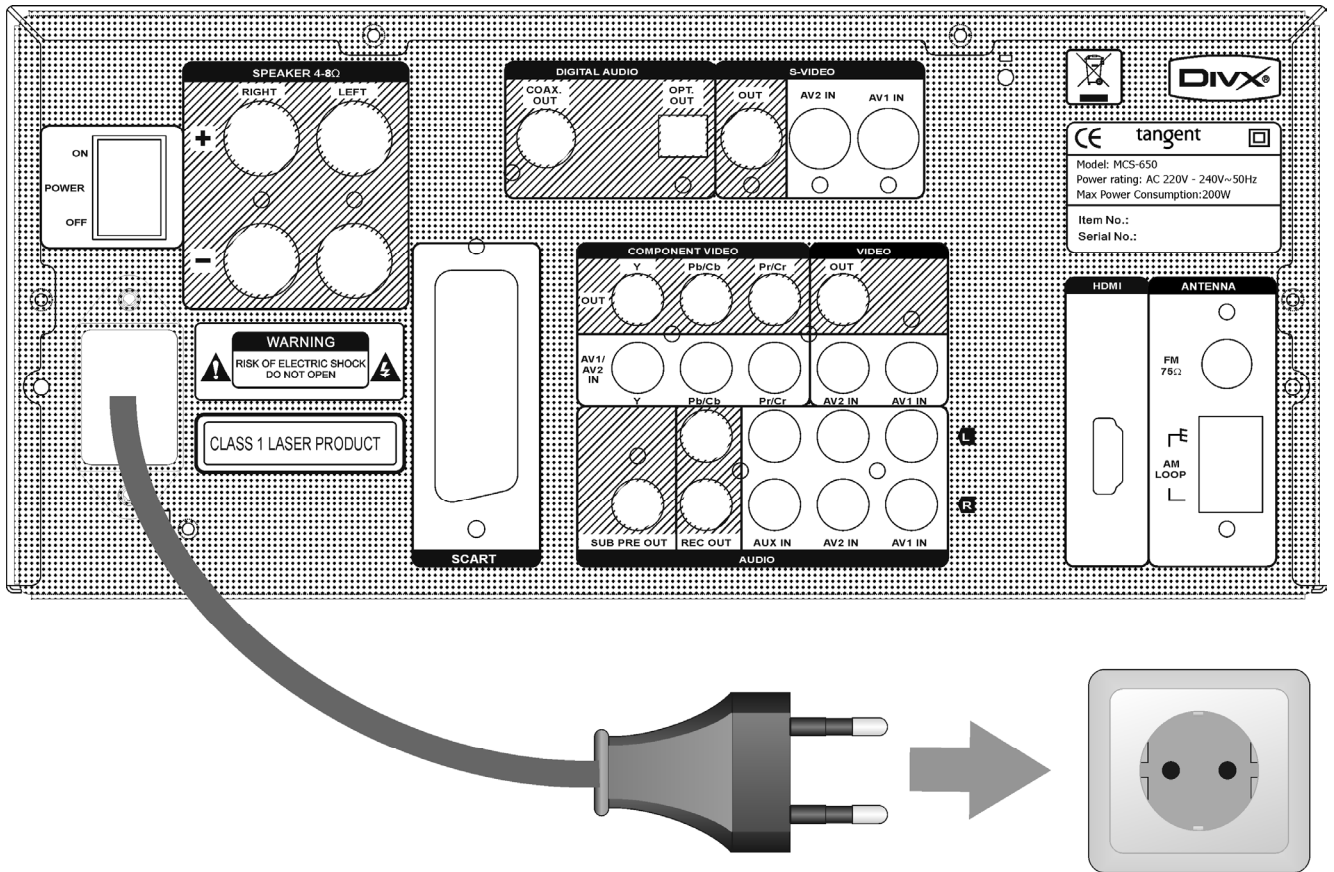
Condensation may occur in the following cases:

- When the unit is moved directly from a cold to a warm place.
- When the unit is used in a room where the radiator has just been switched on or a place where the cold air from the air-conditioning system is directed at the unit.
- If the unit is used in the summer in a warm and humid room just after it has been moved from an air-conditioned room.
- If there is steam or a high level of humidity in the room.

In case of condensation, the unit will not work properly. Turn off the unit. Unplug the unit and leave it for 2-3 hours. The unit will then have adapted to the environment and any condensation will have disappeared.

CONNECTION

Connection to the mains



Check that all other connections have been made correctly before inserting the mains plug into the wall socket. Then insert the plug into a suitable socket.

Note: If the unit is to be used abroad, you may need an adapter.

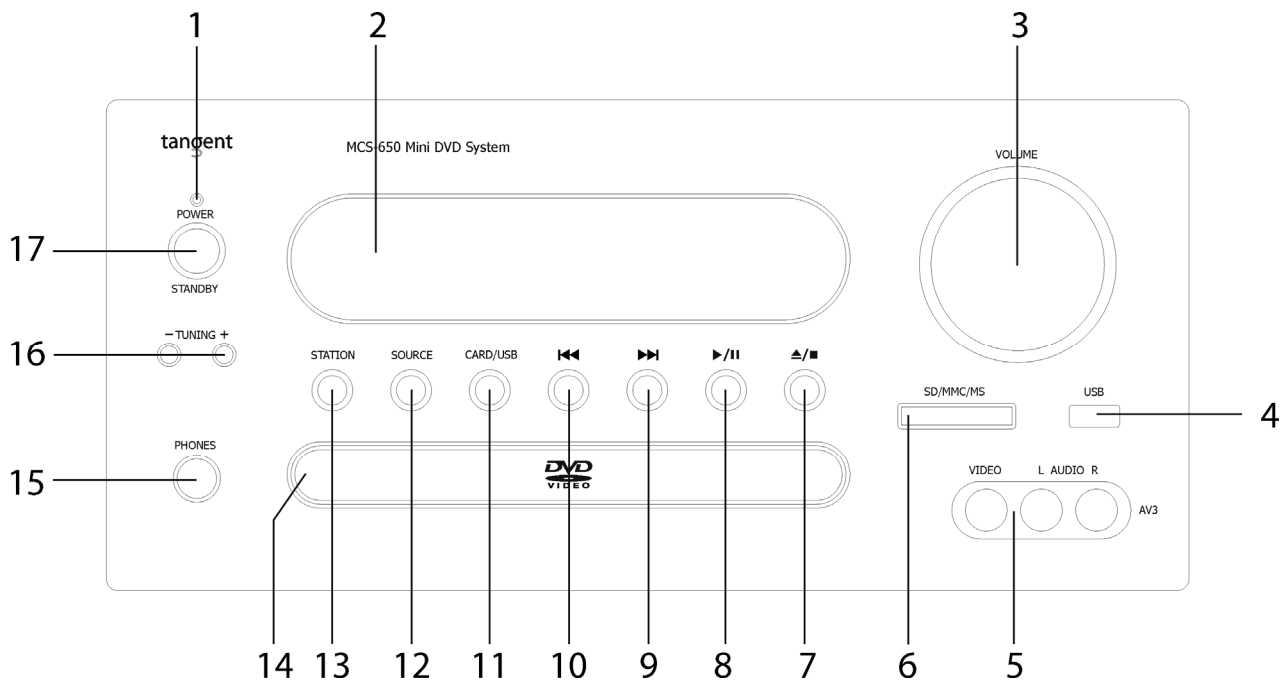
CAUTION:

Do not turn on the power before all connections have been made correctly. You might break your new unit.

Check that all connections have been made correctly before turning on the power.

Check that the mains voltage is 220-240V AC50~60Hz before turning on the power.

FRONT PANEL BUTTONS AND CONNECTIONS



The points below contains a brief description of the front panel buttons, inputs and outputs. For more detailed descriptions of the functions and connections, please see the following pages of the manual.

1. Standby LED

The standby LED indicates whether the unit is on or in standby. When the receiver is on, the standby LED will glow green. When the receiver is in standby, the standby LED will glow red.

2. Display.

Shows information of the selected input source, adjustments and system state.

3. Master volume.

Turn this button clockwise and counterclockwise to adjust the master volume. Turn the knob clockwise to increase the volume and counter clockwise to decrease the volume.

4. USB input

Use this input for connection of USB sources, like a MP3 player, memory stick, cell phones, etc.
Note: This input is not compatible with iPods.

5. AV3 input.

Front input for easy connection of game machines, digital still cameras, camcorders etc. The AV3 contains CVBS and analog stereo input.

6. Card reader

Card reader for SD, MMC and MS cards

7. EJECT/STOP

Press this button to stop playback. Press it once more to eject the disc in the loader.

8. PLAY/PAUSE

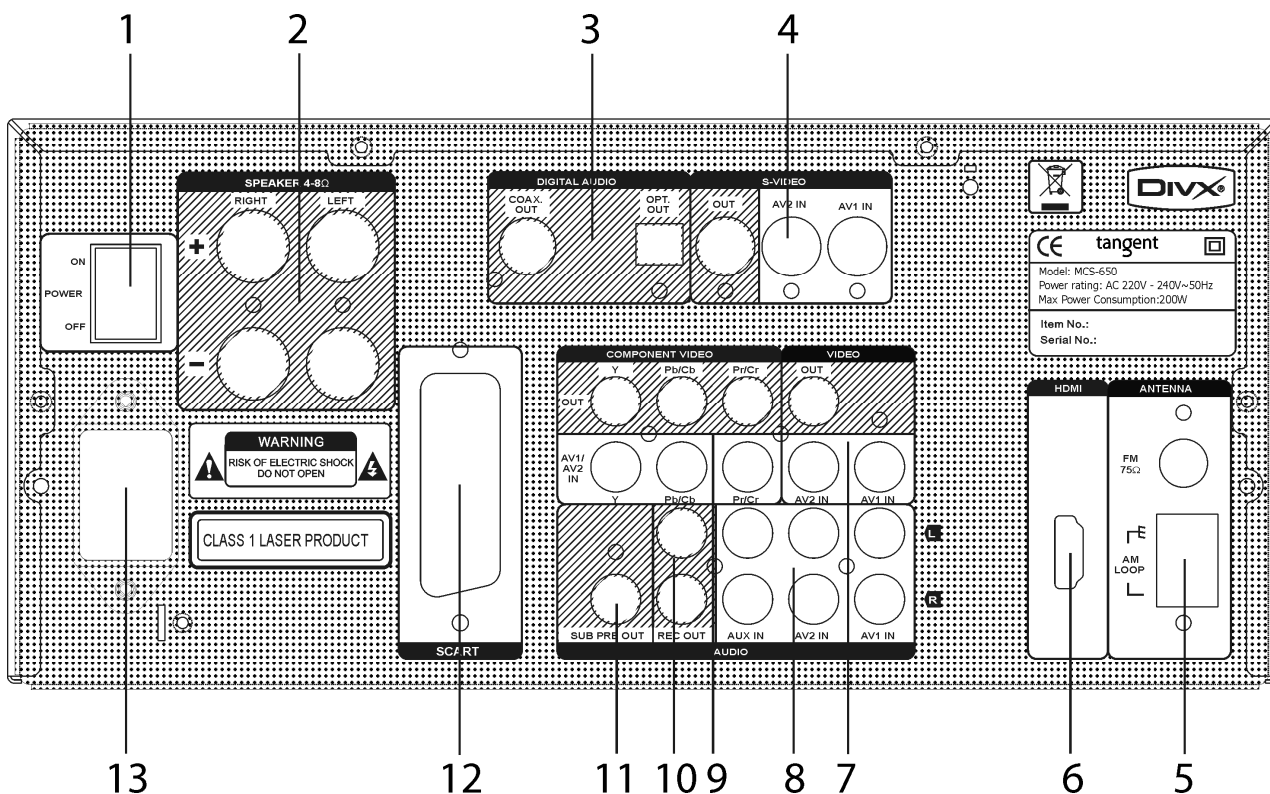
Press this button to start playback. Press it once more to temporarily stop playback.

9. NEXT (>>I)

Press this button to choose the next track or chapter on the disc loaded in the unit.

10. **PREVIOUS (I<<)**
Press this button to choose the previous track or chapter on the disc loaded in the unit.
11. **CARD/USB**
Press this button to select the USB or card reader.
12. **SOURCE**
Press this button to change between input sources.
(DVD, USB, Card, AV1, AV2, FM, AM, AUX, TV, AV3)
13. **STATION**
Press this button to change between radio presets.
14. **Disc tray**
15. **Headphones.**
Use this output to connect headphones. Please notice that if the receiver is playing multi channel surround sound, the sound in the headphones will be downmixed stereo. When the headphones are connected, the speaker outputs will turn off. Make sure that the headphones you wish to use, have a standard 6,3mm jack connector. If not, you can use an adapter to match the 6,3mm jack.
Note: Please be aware of that high volume levels can damage your hearing!
16. **Tuning + and –**
Press and hold these buttons for two seconds to search for radio channels.
17. **Power.**
Press the power button to set the receiver into standby. The standby LED will turn red. Press the power button once again, to turn on the receiver on again. The standby LED will turn green.

REAR PANEL CONNECTIONS AND BUTTONS



The points below contains a brief description of the rear panel buttons, inputs and outputs. For more detailed descriptions of the functions and connections, please see the following pages of the manual.

1. Mains power switch.

Mains power ON/OFF switch. This is not a standby function. This is the mains power switch. When this switch is set to OFF, the receiver will not use any power at all. Please notice that the stored radio presets and sound adjustments will be erased from the receiver when it is turned off on the power switch for a period longer than one week.

2. Speaker output terminals.

For connecting the speakers of the system. Note that the impedance of the connected speaker must be between 4 and 8 ohm. Please make sure that the power is disconnected from the receiver while making any speaker connection.

3. Optical and coaxial outputs.

Optical and coaxial outputs for connection to a external sound processor, CD recorder, surround receiver, etc.

4. S-Video output and inputs.

S-Video output for connection to a TV set or monitor.

S-Video inputs for the AV1 and AV2 inputs

5. FM and AM antenna input.

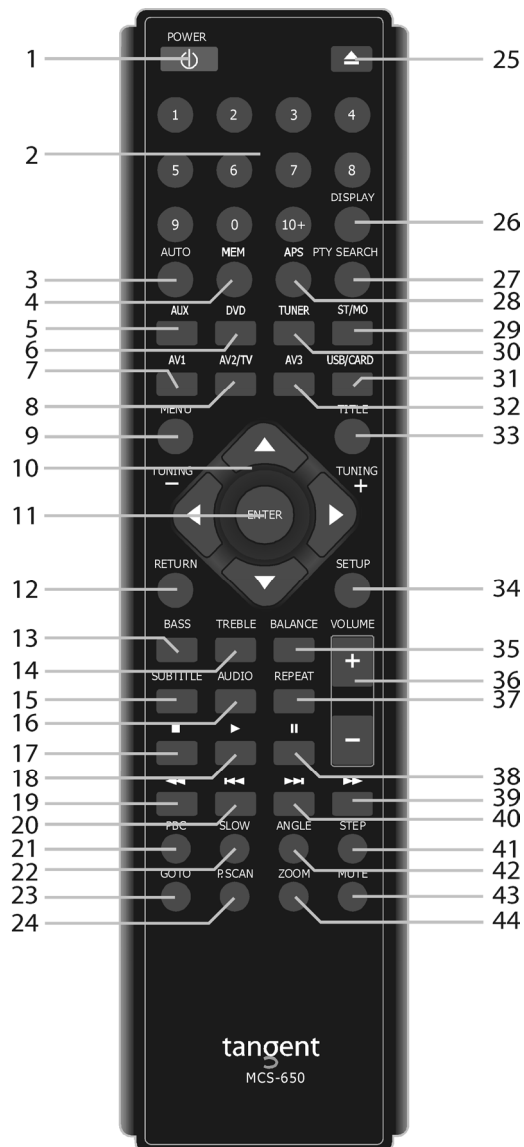
For connection of FM and AM antennas.

FM antenna input. Connect the included FM antenna whip to this input or an external FM antenna. Make sure the cable used for this is a 75 ohms coaxial antenna cable.

AM antenna input. Connect the included AM loop antenna to this input or an external AM antenna.

- 6. HDMI output**
HDMI output for connection to a Monitor or TV set.
- 7. CVBS output and inputs**
Video output for connection to a TV set or monitor.
Video inputs for the AV1 and AV2 inputs
- 8. AUX, AV1 and AV2 analog stereo inputs.**
Analog inputs for an auxiliary stereo source and a analog tape recorder.
- 9. Component video input and output**
Component Video (YPbPr/YCbCr) output for connection to a TV set or monitor.
Component Video (YPbPr/YCbCr) inputs for the AV1 and AV2 inputs
- 10. Analog record output**
Analog output for an auxiliary stereo tape recorder or another source.
- 11. Subwoofer output**
Pre output signal for connection of an active subwoofer.
- 12. Scart input and output**
Scart output for connection to a TV set.
Note: Press the AV2/TV button on the remote twice to get the sound from your TV set through the speakers connected to the MCS-650.
- 13. Mains power input.**
Connect the AC power cord to this jack when the installation is complete. To ensure safe operation, use only the power cord supplied with the receiver. If a replacement is required it must be of the same type and capacity.

REMOTE CONTROL



1. **Power**
Sets the unit into standby and turns it on.
2. **0-9 digits**
Selects the station saved or the track at the current number. If pressed in combination with the +10 button numbers larger than 9 can be selected. If the buttons are pressed for more than two seconds, a station will be saved at the current number.
3. **Auto**
Enables and disables auto and manual search
4. **Mem**
Use this button in combination with the 0-9 button to store a radio channel to a preset. Press MEM, press the preferred number and press MEM again to store.
5. **AUX**
Press this button to select the auxiliary input on the rear panel.

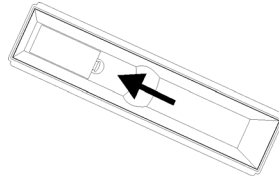
6. **DVD**
Press this button to select the built in DVD player as source.
7. **AV1**
Press this button to select the AV1 input on the rear panel.
8. **AV2/TV**
Press this button to select the AV2 input on the rear panel. Press it once more to get the sound from your TV set out through the connected speakers.
Note: The TV set must be connected with a Scart cable to get the sound out through the connected speakers.
9. **Menu**
Press this button to enter the Disc menu on a DVD disc.
10. **Arrows/Tuning**
Use the arrow buttons to navigate in the disc menus, the setup menu, etc.
In tuner mode use the left and right arrow button to manually search for channels, and the up and down buttons to scroll up and down in presets.
11. **Enter**
Use this button to confirm choices in menus etc.
12. **Return**
Use this button to cancel or return from special menus
13. **Bass**
Press this button to enter the bass adjustment menu. Press the volume + and – buttons to adjust.
14. **Treble**
Press this button to enter the treble adjustment menu. Press the volume + and – buttons to adjust.
15. **Subtitle**
Press this button to change between the subtitles available on a DVD disc.
16. **Audio**
Press this button to change between the audio tracks available on a DVD disc.
17. **Stop**
Press this button to stop disc playback
18. **Play**
Press this button to start disc playback
19. **Fast reverse (<<)**
Press this button to search backwards on a disc. Press the play button to resume normal playback
20. **Previous (|<<)**
Press this button to select the previous track or chapter.
21. **Pbc**
Press this button when playing VCD 2.0 to turn PBC on and off.
22. **Slow**
Press this button to enable slow playback. Press play to return to normal playback
23. **Goto**
Press this button in combination with the 0-9 digit buttons to go directly to a track or chapter on the disc.
Ex.: if you would like to play track number 62, press GOTO, 0, 6 and 2
24. **P. Scan**
Press this button to change between progressive scan and interlace scan when YUV is chosen as video output.
25. **Eject**
Press this button to open and close the disc tray.

26. **Display**
Press this button to change between information shown in the display and on the screen.
27. **PTY search**
Use this button to search for genre when listening to radio. Please notice that this function requires RDS which is only available on FM and not on all stations.
28. **APS (Auto Program Scan)**
Press this button to automatically search and store all available stations in tuner mode. This function works in FM and AM mode.
29. **St/Mo**
Press this button to set stereo on and off in FM mode.
30. **Tuner**
Press this button to select tuner mode. Press it again to change between FM and AM mode.
31. **USB/Card**
This button changes between and selects USB and card reader input mode.
32. **AV3**
Selects the AV3 input on the front panel.
33. **Title**
Selects the title menu if available during DVD playback.
34. **Setup**
Enters and exits the setup menu.
35. **Balance**
Press this button to enter the balance adjustment menu. Press the volume + and - buttons to adjust.
Note: It is possible to adjust the level of the subwoofer output here.
36. **Volume + and -**
Adjusts the master volume up and down.
Note: This button is also used to adjust if used in combination with the Bass, Treble or Balance buttons.
37. **Repeat**
Press this button to repeat a single track, chapter, title, folder or disc repeatedly.
38. **Pause**
Stop playback temporarily. Press play to return to normal playback
39. **Fast forward(>>)**
Press this button to search forward on a disc. Press the play button to resume normal playback
40. **Next (>>|)**
Press this button to select the next track or chapter.
41. **Step**
Press this button to step one frame at the time during disc playback
42. **Angle**
Changes angle during DVD playback if the disc loaded supports multiple angles.
43. **Mute**
Mutes the sound. Press the button again to reactivate the sound.
44. **Zoom**
enables you to zoom on the picture during DVD playback

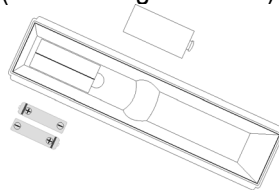
USING THE REMOTE

Installation of batteries

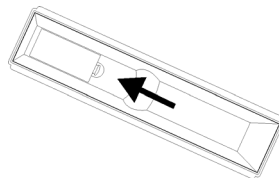
1 Remove the battery cover as illustrated.



2 Position two batteries of the type AAA/R03/UM4 in the battery compartment. Make sure that the orientation of the batteries is correct (see drawing at bottom).



3 Replace the battery cover.

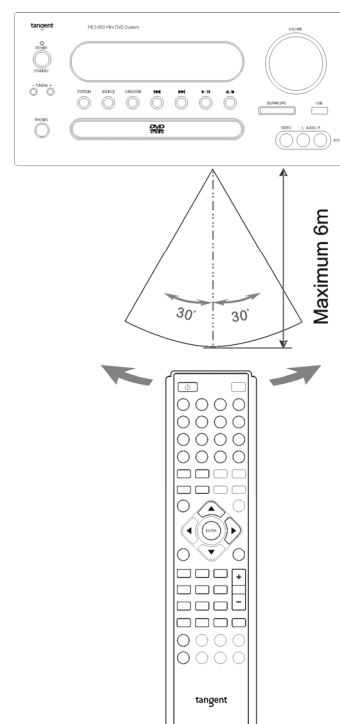


- Do not mix new and old batteries and do not use different types of batteries.
- If the remote control is not used for prolonged periods, remove the batteries from the remote control to avoid corrosion.

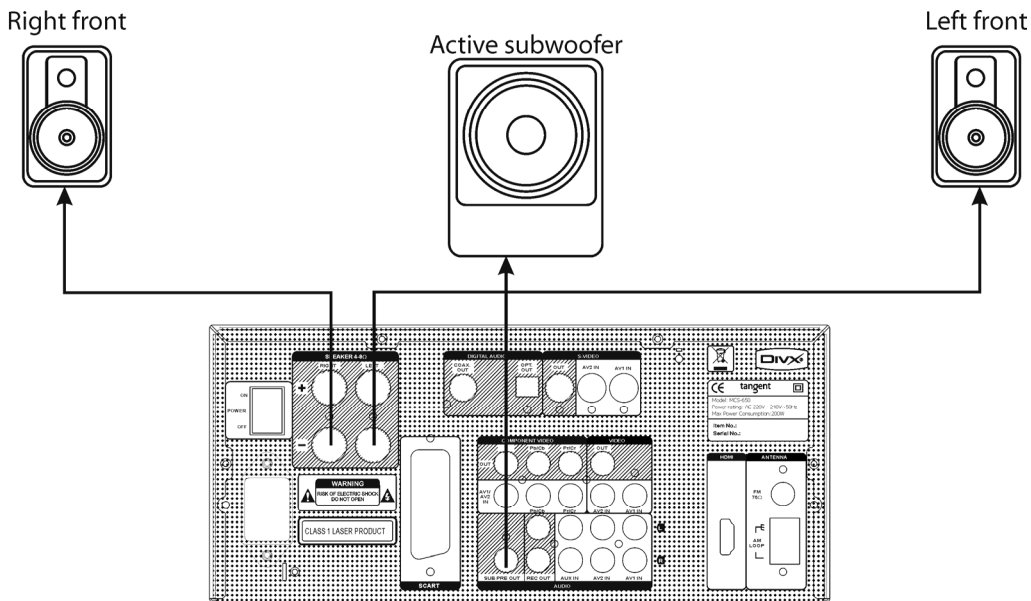
Using the remote control

Direct the remote control at the sensor on the front panel of the unit. When the remote control signal is received, the unit reacts accordingly. The remote control works within a range of 6 meters.

- Sometimes the remote control does not work well in strong light. You may have to move the unit if it is a problem.
- Malfunction may occur if other remote controls are used near the unit.
- Do not place any objects on the remote control, as the batteries may become flat if a key is depressed constantly.
- Make sure that there are no obstacles between remote control and unit.
- Do not position the unit behind tinted glass as it may reduce the maximum range of the remote control.



CONNECTION AF SPEAKERS



Before Connection

Before connection turn off the power of all the equipment.

Read instructions of each component you intend to connect to this unit.

- Be sure to insert each plug securely. To prevent hum and noise, do not bundle the interconnection leads with power cord or speaker leads.

Speaker Connections

To avoid damaging the speakers with a sudden high-level signal, be sure to switch the power off before connecting the speakers.

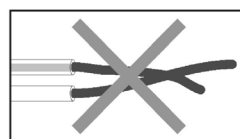
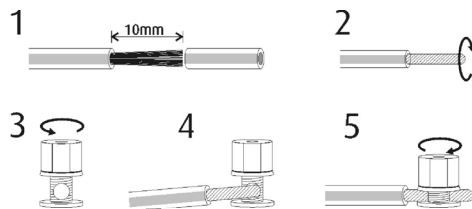
- Check the impedance of your speakers.
Connect speaker with an impedance between 8 and 4 ohms. The amplifier's colored speaker terminals are the + (positive) terminals and the black terminals are the (negative) terminals.
- The + side of the speaker cable is marked to make it distinguishable from the side of the cable. Connect this marked side to the colored + terminals and the unmarked side is the black terminal.
- Prepare the speaker cords for connection by stripping off approximately 10 mm or less (no more as this could cause a short-circuit) of the outer insulation. Twist the wires tightly together so that they are not straggly.

How to connect

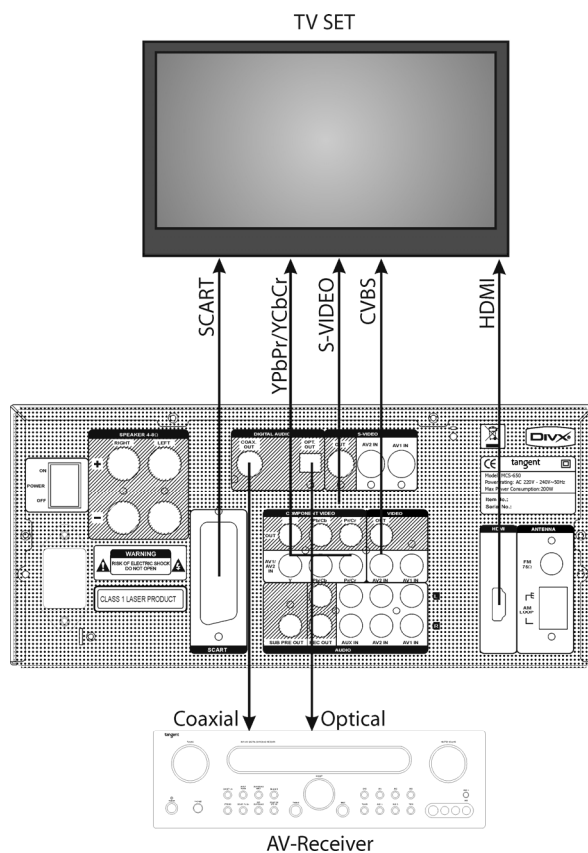
Colored: positive (+)

Black: negative (-)

1. Unscrew the knob
2. Insert the speaker cable.
3. Tighten the knob and secure the cable.



CONNECTION TO TV SET AND DIGITAL OUTPUTS



It is possible to connect the MCS-650 to the TV set in several different ways, depending on what kind of video input connections your TV set features.

Scart (Sound and picture)

Only one cable is needed to connect to the TV set. This connection enables you to get CVBS and RGB picture to your TV set. To get RGB picture through the Scart cable, you must set the Video output to RGB in the setup menu.

Please notice that the sound output in the Scart connector is volume regulated.

Component video (YPbPr/YCbCr) (Only picture, no sound)

To use the component video output, you must connect all three cables (Y,Cb,Cr/Y,Pb,Pr) in the correct order. To get component video picture to your TV set, you must set the Video output to YUV in the setup menu. It is active as standard. When using the component video connection you have the ability of using progressive scan. To activate progressive scan press the P.SCAN button on the remote. If your picture distorts or disappears when running progressive scan, press the P.SCAN button once again, to change back to Interlaced scan.

Note: Progressive scan is only available on component video.

S-Video (Only picture, no sound)

Connect this output to your TV set through a S-Video cable. No adjustments in the setup menu is needed.

Composite video (CVBS) (Only picture, no sound)

Connect this output to your TV set through a RCA Video cable. No adjustments in the setup menu is needed.

HDMI (Digital sound and picture)

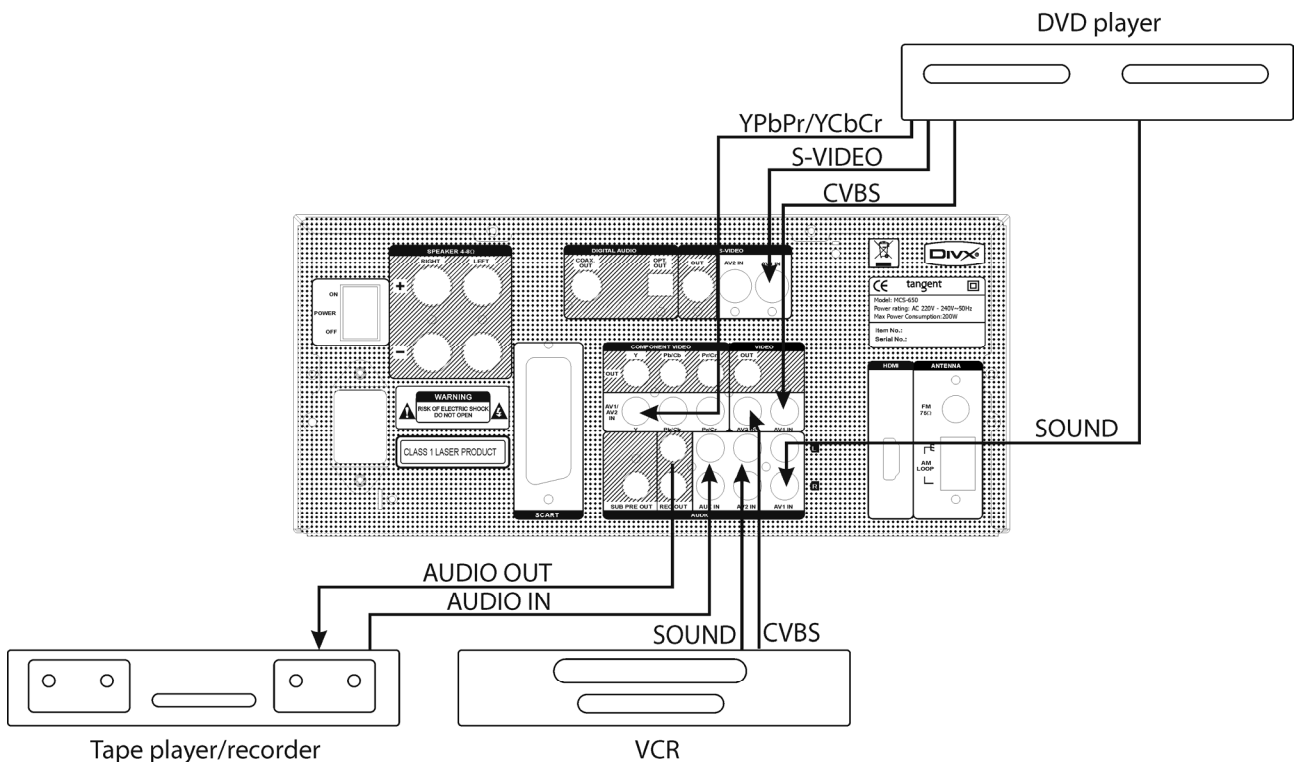
Connect this output to your TV set for the best picture available from your MCS-650 through a HDMI cable. The HDMI output features the following picture resolution: 480p (60Hz), 720p (60Hz), 1080i (60Hz), 576p (50Hz), 720p (50Hz), 1080i (50Hz). The picture resolution can be adjusted in the setup menu. The digital sound through the HDMI can be set to either SPDIF or PCM, depending on your TV set. The audio output in the HDMI connection can be adjusted in the setup menu.

Please notice that not all TV sets features all of these connections. Make sure your TV set is compatible with the connection type you have chosen.

Optical and Coaxial outputs

It is possible to connect the MCS-650 to a digital surround receiver or processor. This will give you the ability to upgrade the sound experience from your MCS-650. The unit has both an optical and a coaxial digital output. These output must be turned on tin the setup menu in order to work. Please see the description of SPDIF setup for reference.

Rear panel inputs



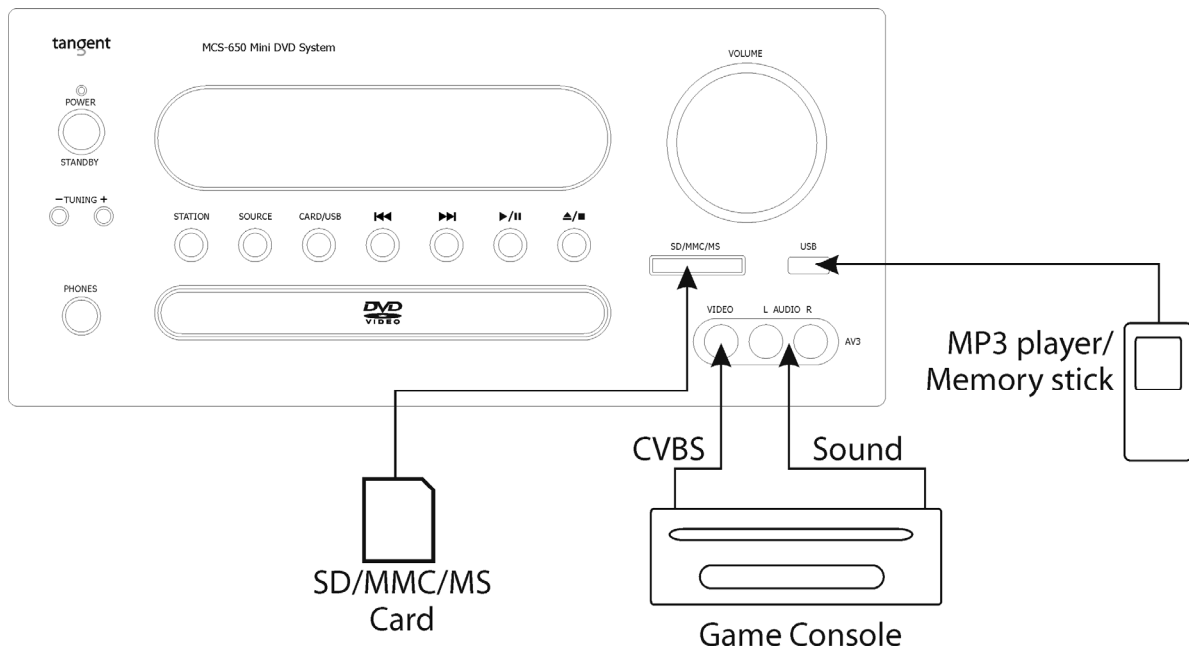
The rear panel has one analog stereo auxiliary input/output (AUX) and two AV inputs.

- The AUX connection contains an analog stereo line input and an analog stereo line output (REC OUT). Use this input to connect a tape recorder or similar products. Connect to source equipment using phono cables (stereo 2RCA-2RCA). Choose the AUX input by pressing the AUX button on the remote.
- The AV1 and AV2 inputs both contain an analog stereo input, a composite video input (CVBS), a S-video input and a component video input. Choose the AV1 or AV2 inputs by pressing the AV1 or AV2/TV button on the remote. Please notice that if the AV2/TV button is pressed twice, the sound and picture from the TV set will be played instead of the sound and picture from the AV2 input.

Note: The AV1 and AV2 inputs share the component video input. That means only one source can be connected to the MCS-650 through component video in. Also please notice that if you connect the AV1 or AV2 through the component video input, you must connect your TV set via the component video output.

Note: Do not plug in the mains power lead or turn on the unit before all connections have been made.

FRONT PANEL INPUTS



The front panel has three inputs: A card reader, a USB input and a AV input. These inputs are intended for temporary and easy connections.

- The card reader enables you to insert your memory card from your camera or cell phone, to play music or see pictures. You can browse the files of the connected source via the TV set you have connected the MCS-650 through. Please notice that the card reader is compatible with SD, MMC and MS card.
- The USB input enables you to connect your MP3 player or Memory stick to the unit, to play music or see pictures. You can browse the files of the connected source via the TV set you have connected the MCS-650 through. Please notice that the USB input on the front panel is not iPod compatible.
- The AV3 input on the front panel contains an analog stereo input and a CVBS video input. This enables you to connect a gaming console or camcorder very easily. The AV3 input is a standard 3 RCA input, that should be connected the same way as the inputs on the rear panel.

Choose the wanted input source by pressing the button on the remote that fits the wanted input.

Note: Do not plug in the mains power lead or turn on the unit before all connections have been made.

THE SETUP MENU

This unit features an On Screen Displayed setup menu. Here you can make adjustments in the different setting this unit features.

Video Setup

The video setup enables you to make adjustments regarding the video appearance.

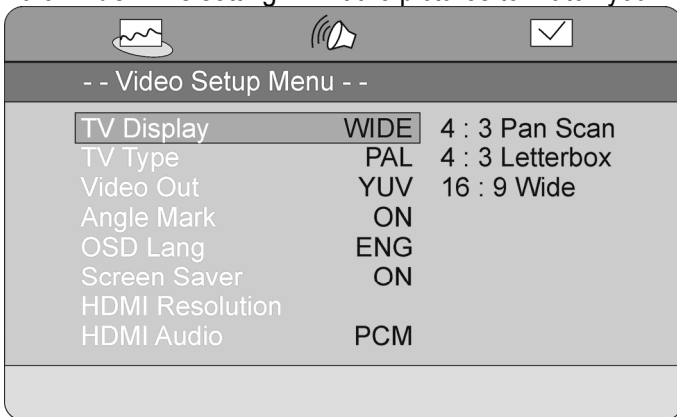
TV Display

Here you can set the perspective of your TV set.

4:3 Pan Scan: This setting will make sure every picture fits your 4:3 TV set. It will cut the picture to make it fit your screen perfectly.

4:3 Letterbox: This setting will show 4:3 pictures on your screen normally and make a black bar in the top and bottom of the screen when showing 16:9 pictures.

16:9 Wide: This setting will fit the pictures to match your widescreen TV.



TV Type

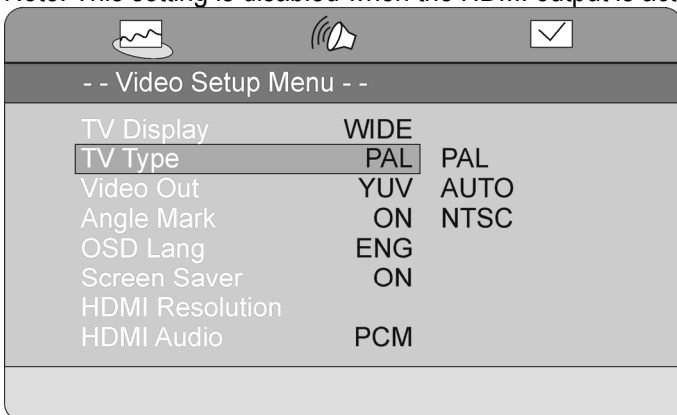
Here you can adjust the TV system to match your setup.

PAL: Standard European setup

AUTO: This setting should make sure the picture is displayed on most TV sets.

NTSC: Standard American TV system

Note: This setting is disabled when the HDMI output is activated.



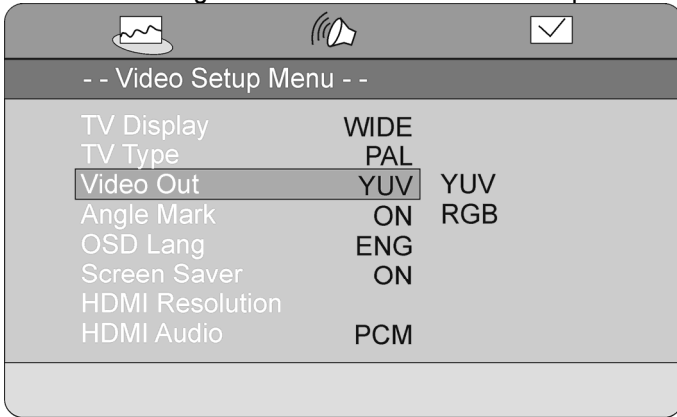
Video Out

Here you can adjust the video output settings to match your setup.

YUV: Activates the component video output. You can change between progressive scan and interlaced scan by pressing the P.SCAN button on the remote.

RGB: Activates the RGB video output in the Scart connector.

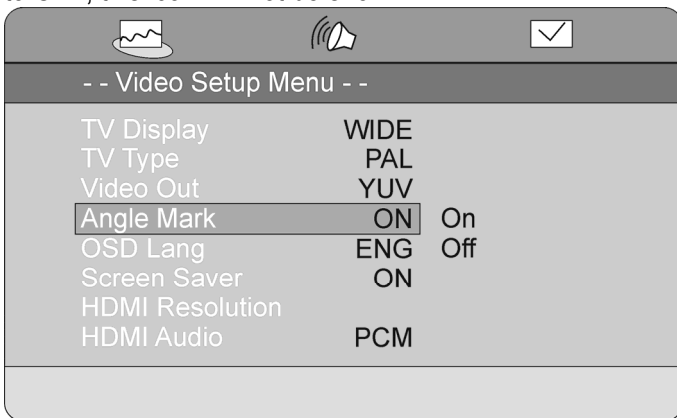
Note: This setting is disabled when the HDMI output is activated.



Angle Mark

Some DVD movies are recorded in multiple angles.

The Angle Mark feature enables the MCS-650 to tell you if more than one angle is available. When the Angle Mark is set to ON, a small icon in the shape of a camcorder is shown on the screen. When Angle Mark is set to OFF, this icon will not be shown.



OSD Language

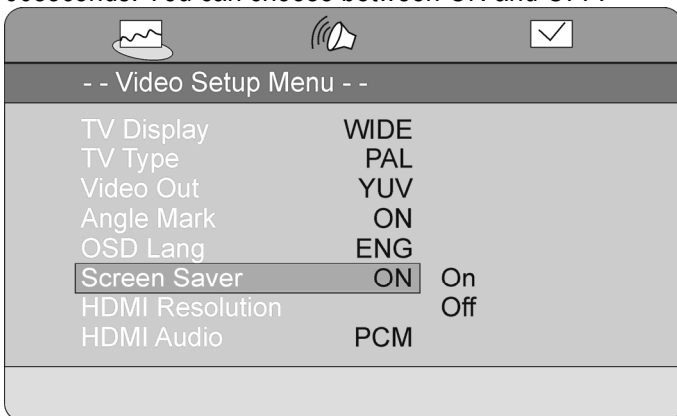
Here you can change the language of the setup menu and other messages shown on the screen.

Note: The languages available in this menu can vary.



Screen Saver

This function will start a screen saver similar to the one known from a computer after approximately 60seconds. You can choose between ON and OFF.

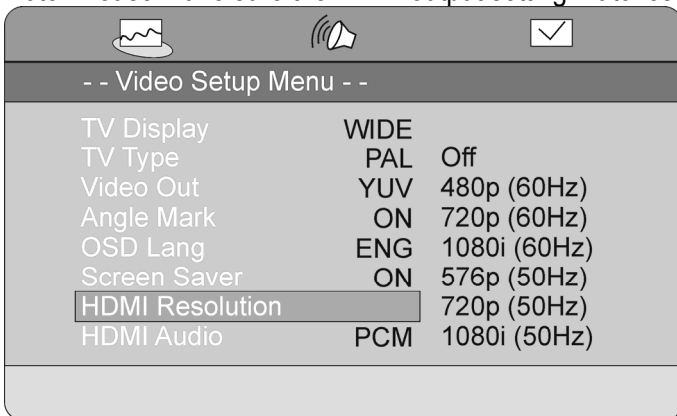


HDMI Resolution

Here you can set the resolution of the HDMI output. Choose between:

Off, 480p(60Hz), 720p(60Hz), 1080i(60Hz), 576p(50Hz), 720p(50Hz), 1080i(50Hz).

Note: Please make sure the HDMI output setting matches the specifications of your screen.

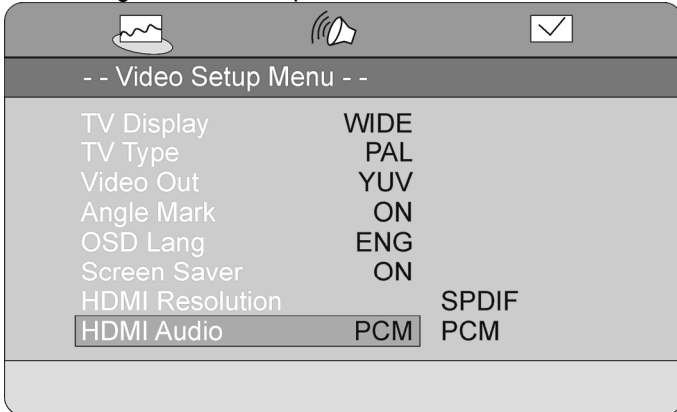


HDMI Audio

Here you set the digital audio output in the HDMI connector. You can choose between SPDIF and PCM. Please notice that this setting must match the specifications of your system.

PCM: The standard setting is PCM which matches most TV sets. The PCM setting only enables stereo sound in the HDMI connector.

SPDIF: The SPDIF setting enables multi channel sound in the HDMI connector. This feature is used if you are connecting the HDMI output of the MCS-650 to a surround receiver or surround processor.



Audio Setup

The Audio setup enables you to make adjustments on the two digital audio outputs (Optical and Coaxial) on the rear panel of the MCS-650.

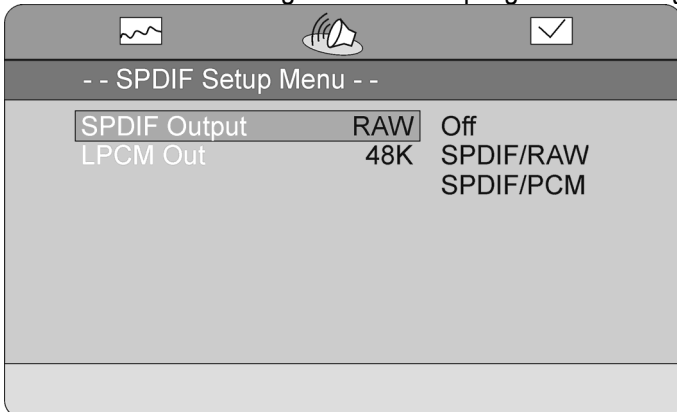
SPDIF Output

Here you can adjust the digital outputs on the rear panel.

Off: Turns off the digital outputs

SPDIF/RAW: This setting makes sure the data in the digital outputs are exactly the same as the data on the source playing.

SPDIF/PCM: This setting limits the sampling rate of the digital output to PCM (Stereo)



LPCM Out

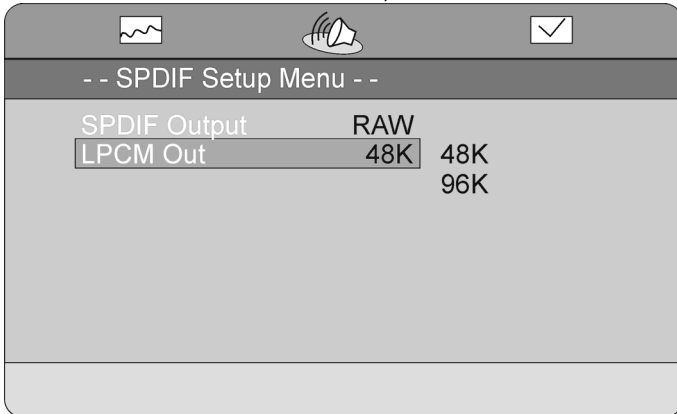
This setting is only available when the SPDIF output is set to PCM. (See the description above)

Here you can set the limitation of the digital output.

48KHz: Sets the down sampling to 48KHz

96KHz: Sets the down sampling to 96KHz

Note: When this feature is active, some audio track are not reproduced correctly.



Preference Setup

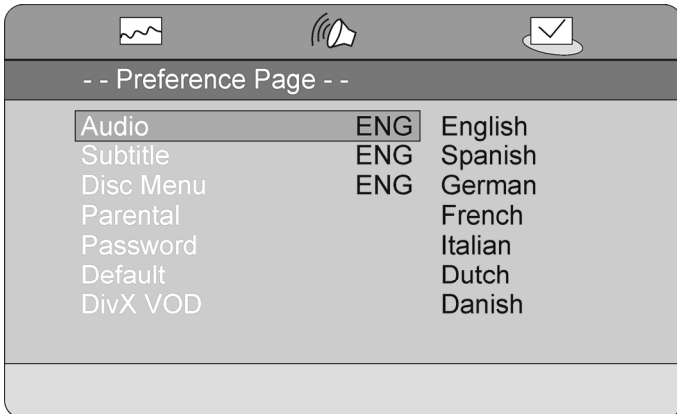
In this menu you can make the most basic settings of the units DVD and DivX functions

Audio

This setting makes you able to set a preferred Audio language for playback of a DVD disc.

If the setting is set to e.g. German, the German audio track of a DVD disc will be selected automatically if available.

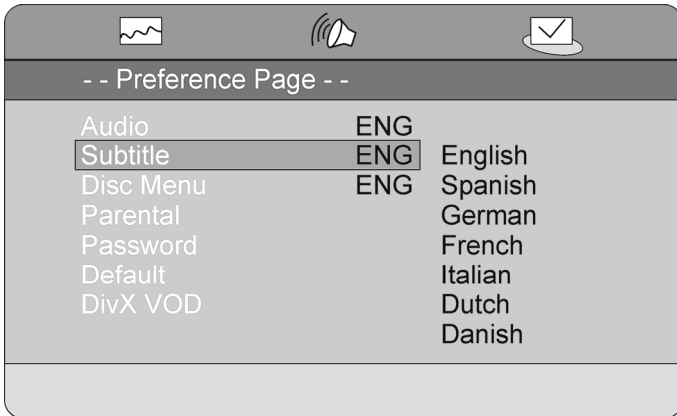
Note: This feature is not available on all DVD discs.



Subtitle

This setting makes you able to set a preferred subtitle language displayed during playback of a DVD disc. If the setting is set to eg. German, the German subtitles of a DVD disc will be selected automatically if available.

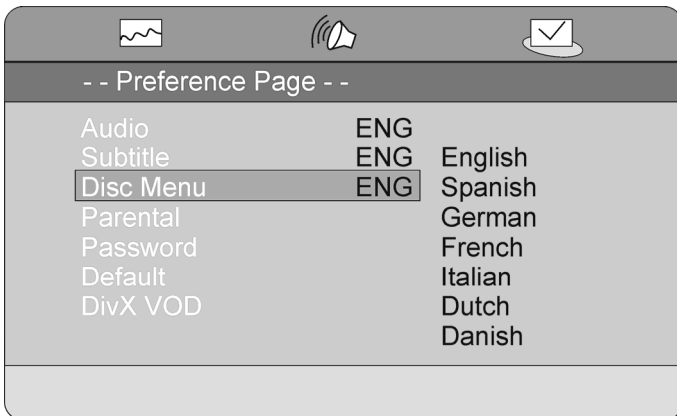
Note: This feature is not available on all DVD discs.



Disc Menu

This setting makes you able to set a preferred disc menu language for playback of a DVD disc. If the setting is set to eg. German, the German disc menu of a DVD disc will be selected automatically if available.

Note: This feature is not available on all DVD discs.

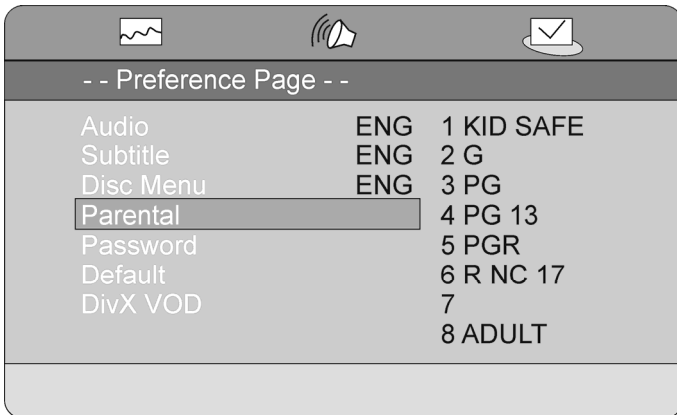


Parental

This feature allows you to restrict the viewing of certain materials that may not be suitable for younger members of the house. Please notice that in order to make adjustments in this menu, you are required to type the password. See the next paragraph for further explanation to this.

The system is based on the rating information encoded on a DVD that classifies materials into 8 levels roughly corresponding to the Motion Picture Association of America voluntary ratings system.

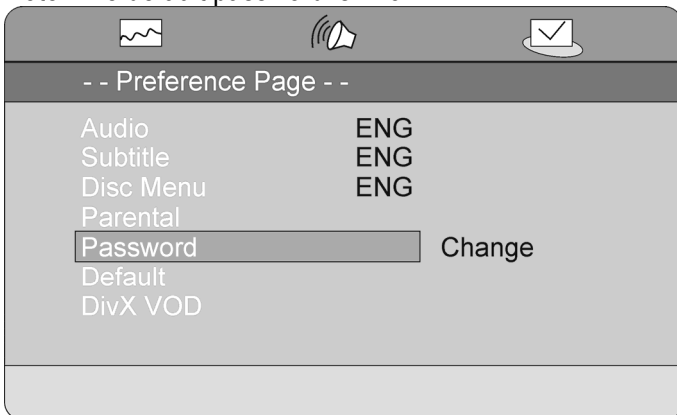
Note: Not all DVDs contains this information and will therefore not be affected by this setting.



Password

Here you can change the password required for making changes in the Parental settings.

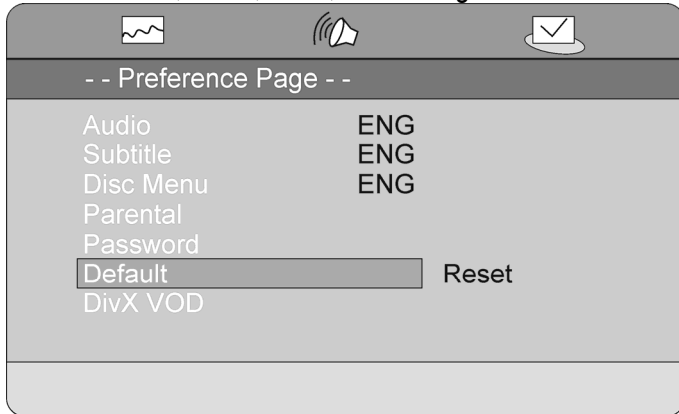
Note: The default password is 1234



Default

Here you can reset all the setting of the MCS-650 to the factory defaults.

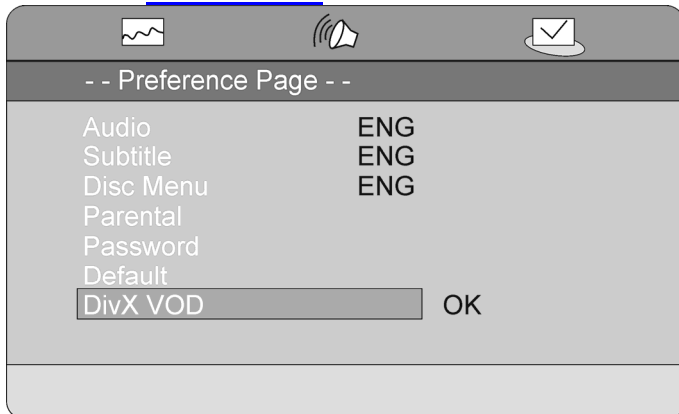
Note: All video, audio, tuner, etc. settings will be lost if a reset is performed.



DivX VOD

Here you can require an 8 digit code for rental of DivX files on the internet etc.

Please visit www.DivX.com for further instructions.



USING THE RADIO

Connecting an antenna

Before you can start listening to radio stations, you must connect an antenna to the MCS-650.

The receiver is able to receive both FM and AM radio. It is therefore possible to connect both an AM and a FM antenna to the receiver.

1. FM antenna input. Connect the included FM antenna whip to this input. Adjust the position of the antenna whip until optimum reception is achieved. If an satisfying signal cannot be received with the included antenna whip, an external FM antenna must be connected instead. Make sure the cable used for this is 75 ohms coaxial antenna cable. The input can also be used for connection to an antenna cable network if available.

2. AM antenna input. Connect the included AM loop antenna to this input. Move the antenna until optimum reception is achieved.

Note:

It is strongly recommended to use outdoor external antenna to achieve the optimum antenna signal.

Tuning in channels

To tune in channels on the MCS-650, you have three options:

- APS (Auto Program Scan)
- Automatic frequency search
- Manual frequency search

APS (Auto Program Scan)

Press the APS button on the remote. The receiver will automatically search the entire band for channels, and store them as they come. This is the easiest way to tune in radio channels. The downside to this is that the channels will be stored in the order they have been found in.

Automatic frequency search

Press the AUTO button on the remote. The display will show AUTO ON. Press and hold the TUNING + or TUNING - button on the remote for 1 second. The unit will automatically scan the frequency up or down, until a radio station is found. You can also turn the TUNING knob on the front panel of the receiver to scan up or down in frequency.

Manual frequency search

To search manually in the frequencies, press the the AUTO button on the remote. Make sure the display shows AUTO OFF. Then press the TUNING +/- button on the remote to step up or down in frequency. If you press and hold the TUNING +/- button on the remote, the receiver will keep stepping up or down in frequency, until you let go of the button. You can also turn the TUNING button on the front panel of the receiver to manually tune up or down in frequency.

To store a frequency to a preset after automatic or manual searching, press the MEM button on the remote once. A number will start to flash in the display. Then press the preferred preset number you wish to store the frequency to. The frequency has now been stored to a preset after your choice.

Use the Arrow Up and Arrow Down buttons on the remote to change between the stored stations.

If your antenna signal is too weak, you might experience some noise when listening to radio in stereo. You can some times remove this noise by switching to mono. This is done by pressing the ST/MO button on the remote.

RDS (Radio Data System)

RDS is a method for the transmission of additional information from Radio Stations. It is only available in FM mode. For example, the name of the radio station, the name of the program or the type of program can be shown on the display. It functions only when the broadcasting station has the RDS transmission and the signal is strong enough.

Press "DISPLAY" on remote control to display the RDS information. RDS contains the following information:

PS (Program Service name)
PTY (Program TYPe)
CT (Clock Time)
RT (Radio Text)

A) **PS** (Program Service Name)

Press the DISPLAY button on the remote until PS appears. The current stations name will be shown.

Note: NO PS will be shown if the signal from the radio station is not strong enough or no such service is available.

B) **PTY** (Program Type)

Press the DISPLAY button on the remote until PTY appears. The current type of the program will be shown.

Note: NO PTY will be shown if the signal from the radio station is not strong enough or no such service is available.

C) **CT** (Clock - Time)

Press the DISPLAY button on the remote until WAITING CT will appear. The current time from the radio Station will be shown, e.g. 15:30

Note:

1. The Clock - Time will be only transmitted from the radio stations once a minute, so you need to wait for less than 1 minute to see the time.
2. NO CT will be shown if the signal from the radio station is not strong enough or no such service is available.

D) **RT** (Radiotext)

Press the DISPLAY button on the remote until RT appears. The text message will start to scroll across the display.

Note: NO RT will be shown if the signal from the radio station is not strong enough or no such service is available.

PTY SEARCH (Program Type Search)

1. Press the PTY SEARCH button on the remote, PTY SEL will flash on the display.
2. Press the TUNING +/- on the remote to choose the program type, for example, NEWS, SPORT, etc.
3. Press the PTY SEARCH button again to choose the program type shown in the display. PTY SRH will be shown on the display when a search is going on.
4. When the type of program is tuned in, it will stop searching, otherwise, NO FOUND will appear in the display.

Troubleshooting

If you have a problem with DVD player, check this list for a possible solution before calling for service. Some simple or minor problems can be solved by yourself. If the unit works abnormally continuously or the unit has been physically damaged, turn off the power and disconnect the AC power plug, consult qualified person such as dealer for service.

Symptom / Remedy

No sound or Distorted sound

- Confirm the power cord plug is well connected.
- Make sure the setting of TV or other AV equipment is proper.
- Make sure the TV or the amplifier is under normal operation.
- As you use the headphones, make sure the headphone is well connected with the jack and the volume switch (phone level) is turned to proper level
- No sound is heard during still picture (pause) or slow motion play.

No picture

- Make sure the equipment is well connected.
- Make sure the input setting for the TV is "Video" or "AV"
- Make sure the specifications of the TV is according to the settings of the unit.
- Make sure TV is under normal operation.
- Make sure the color system is set at the proper mode (NTSC/PAL)

Picture breakdown

- Make sure there is no significant damage on the disc
- The disc may be dirty, clean it and re-start again

Does not play

- Make sure the disc is well installed with the label facing at the top.
- The disc may be dirty and require cleaning
- The player will be affected by moist disc or by condensation, keep the disc dry and wait about 1 or 2 hours to allow the player to dry out.

No operation can be performed with the remote control

- Check the batteries are installed with the correct polarities (+ & -)
- Make sure the batteries are in good condition and not depleted. If yes, replace the new ones.
- Make sure the remote is pointing at the sensor
- Remove the obstacles between the player and the remote

No surround sound

- Choose the correct setup of the speaker setting which matches with your stereo system
- Check speaker connections
- Check the sources materials—if mono, sound may only come out of the centre output.
- If 2-channel DVD model, you will require a Pro Logic decoder or Dolby Digital decoder to reproduce the surround output.

No 4:3 (16:9) picture

- Choose the correct setup "TV SCREEN" item that matches with your TV type.

Remark: Abnormal functioning of this unit may be caused by static electricity or other external interference. To restore normal operation, unplug the AC cord and then plug it in again or switch off and on the player again.

Specifications

Audio Section

Rated Power Output: 2 x 40 W 8 ohm
2 x 60 W 4 ohm

Total Harmonic Distortion: Less than 0.2% rated power output

Line Input

Input Sensitivity/Impedance: 200 mV /47kohm
Frequency Response: 20 Hz - 20 kHz +0.5 / -3 dB

Tone Control Range:

BASS: ±10dB
TREBLE: ±10dB
Signal-to-noise Ratio: 70 dB CCIR/ARM

Subwoofer Output

Rated Output/Impedance: 2 V / 2.2Kohm
Frequency Response: 10 Hz - 120 Hz ± 3 dB

FM Tuner Section

Frequency Range: 87.5-108 MHz
Sensitivity: 14dB (5uV)
Antenna Terminal: 75 ohm (unbalanced)

MW Tuner Section

Frequency Range: 522 - 1629 kHz (Europe) 9 kHz step
Sensitivity: 60 dB / M
Single-to-noise Ratio: 50 dB
Antenna: Loop Antenna

Video Section

Inputs: CVBS, S-Video and Component video
Outputs: HDMI, CVBS, S-Video, Component video and RGB (Scart)
Level/Impedance: 1 Vp-p / 75ohm
HDMI Resolutions: 480p, 720p, 1080i (60Hz)
576p, 720p, 1080i (50Hz)
Progressive scan: Via Component video

Compatible discs:

DVD Video, DVD+ r/rw, DVD- r/rw
CD, CD-r/rw.
VCD, S-VCD
MP3 disc, WMA disc, JPEG
DivX 3.xx, 4.xx, 5.xx

Compatible digital sources

USB input for audio and video
Card reader for SD, MMC, MS
Optical, Coaxial

Digital audio outputs:

General

Power Requirements:

Power Supply: AC220V ~240V~ 50/60Hz
Power Consumption: 200 Watts

Dimensions:

275(W) x 135(H) x 350(D) mm

Net Weight:

5.8Kg

***Design and specifications are subject to change without notice.**

Service hotline +45 9641 1599
For further information, please visit our website:

www.tangent-audio.com

Item No.: 40597

