



MANTA

LED TV 19"/22"/24"

LED1902/LED2205/LED2402

Instrukcja obsługi
User's Manual

www.manta.com.pl
www.manta.info.pl

Contents

Important Safety Instructions	2
Supplied Accessories	5
Preparation	6
Positioning the TV set	6
Antenna and Power Connections	6
Functional Overview	7
Front and Side Panel	7
Rear Panel	8
Connections	9
Connections	9
PC Connection	10
Auto Installation	11
Remote Control	13
Installing the Remote Control Batteries	13
Power On/Off	13
Placing In Standby Mode	13
Remote Control - Button Description	14
Program Change	15
Basic Operation	16
Power On/Off	16
Volume Adjustment	16
Input Source Selection	16
Basic operations of OSD menu	16

Menu Operation	17
Picture Setting	17
Sound Setting	17
Channel Menu (ATV, DTV mode)	18
Feature Menu	21
Setup menu	22
Multimedia	24
Photo	24
Music	25
Movie	26
eBook	27
EPG (Electronic Program Guide)	28
PVR (Personal Video Recorder)	29
REC (Recording DTV channels)	30
Standard Recording	30
EPG Recording	31
EPG Recording	31
TimeShift	31
REC and TimeShift Playback	32
Troubleshooting	33
Technical specifications	34

CE Compatibility

This device is manufactured in accordance with applicable European standards on safety (LVD) and electromagnetic compatibility (EMC) in accordance with the following Standard or Standardized Documents: EC Council Directive 2004/108/EC (EMC Directive), EC Council Directive 2006/95/EC (Low Voltage Directive) and ERP directive (642/2009/EC).



Environmentally-friendly treatment:

According to the EU Directive No 2002/96/EC concerning the products labeled with a symbol of a crossed trash can, the manufacturer warns that this product cannot be considered a standard domestic waste. By proper treatment, management and recycling of such waste the owner of the product prevents users from the potential negative consequences to health, which may be caused by inadequate management or disposal of such waste. For more information concerning recycling and management of the product, please contact your local government office for dangerous waste management, or the vendor from which you purchased the product.



Important Safety Instructions

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Introduction

Thank you for purchasing Quadro TV. Your TV will bring you years of high-quality viewing enjoyment. It is also extremely easy to operate, and provides exceptionally high image quality. The TV is also extremely versatile. You can install your TV on the wall (optional wall-mounting kit is required) or set it on a table, and it can be used under any type of illumination.

This manual will explain the operation of the TV., including important informations. Before installing or operating your TV, please take the time to thoroughly read this manual, particularly the sections on safety. Keep this manual on safe place for future purposes. All operating, safety and use instructions should be followed.

Safety Instructions



WARNING: To reduce risk of electrical shock, do not remove cover (or Rear panel).

FOR REPAIR CONTACT Authorized Service staff.



This designation warning user to the presence of "high voltage" within the device, and the risk of electric shock.



This symbol warns the user to the presence of important operating instructions and maintenance, you'll find this in the instructions.

This equipment generates, uses and can radiate radio frequency energy. If not installed and not used in accordance with the instructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this urządzenie causes harmful interference to radio or television reception, try to remove interference in the following manner:

- move the antenna
- Increase the distance between the accessories and TV unit.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety

*Unplug this product from the wall outlet before cleaning.

*When Cleaning the TV set, please use the cleaning cloth which doesn't contain volatile materials.

*Never scratch the MONITOR screen and cabinet with sharp object including nail and blade.

Do not expose TV to the external sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

*Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

*Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

*When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

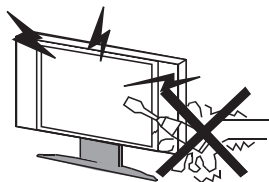
*Do not use this product near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

*Do not overload wall outlets, extension cords, or convenience receptacles on other Equipment as this can result in a risk of fire or electric shock.

Important Safety Instructions

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Warnings and Cautions

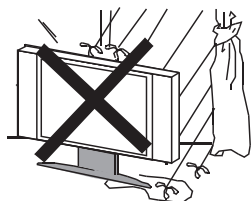


Warning

High voltages are used in the operation of this product. Do not remove the back cover of the cabinet. Refer servicing to qualified service personnel.

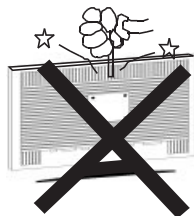
Do not attempt to modify this product in any way without written authorization from supplier. Unauthorized modification could void the user's authority to operate this product.

The product should be operated only from type of power source indicated on the rating label on the product. If you are not sure of the type of power supply in your home, consult your appliance dealer or local power company.



Warning

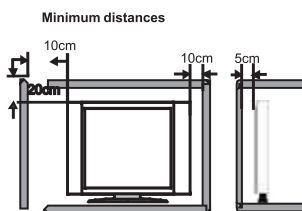
To prevent fire or electrical shock hazard, do not expose the main unit to rain or moisture. Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



Warning

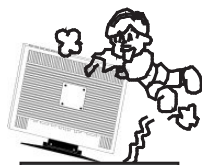
Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.

Do not touch the power cord with wet hands. Hold the plug when disconnecting the power cord. Do not pull the power cord.



Warning

If the television is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Heat build-up can reduce the service of your television, and can also be dangerous.



Caution

Never stand on, lean on, push suddenly the product or its stand. You should pay special attention to children.

Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

Do not place the main unit on an unstable cart stand, shelf or table. Serious injury to an individual, and damage to the television, may result if it should fall.

Important Safety Instructions

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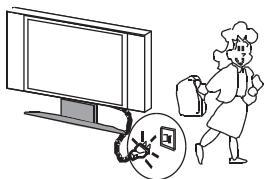

Caution

If your model has earphone connection, please pay attention that excessive sound pressure from earphones and headphones can cause hearing loss.



Caution

When the product is not used for an extended period of time or in case of lighting thunderstorm, it is advisable to disconnect the AC power cord from the AC outlet.

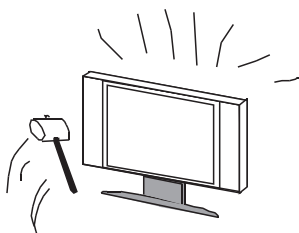


Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.



Caution

Avoid exposing the main unit to direct sunlight and other source of the heat. Do not stand the television receiver directly on other product which give off heat. E. g. video cassette players, audio amplifiers. Do not block the ventilation holes in the back cover. Ventilation is essential to prevent failure of electrical component. Do not squash power supply cord under the main unit.



Caution

The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.

Precautions when displaying a still image and light spots

- A still image may cause permanent damage to the TV screen.
- Do not leave the screen in pause mode for more than two hours as you may experience temporary or permanent image burn.
- To avoid this image burn, please decrease picture Brightness and contrast ratio in pause mode.
- The warranty will not cover the damage caused by above reason.
- Do not leave the screen (Playing a game or watching a movie) in pause mode for extended periods of time, for as a result the borders may leave traces.
- To avoid this please decrease picture brightness and contrast ratio in pause mode.
- Sometimes, the LCD screen may have some tiny red, blue, white or black spots. According to ISO13406-2 (class 2) norm, this is a normal and does not effect on the TV performance.

Important Safety Instructions

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Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check - Upon completion of any service or repairs to the product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Installation Location - Place the product on a firm and flat surface. Avoid placing the product in areas of direct sunlight, heating radiators,

closed automobiles, high temperature, high humidity, excessive dust, strong vibration, impact or strong magnetic fields, as the internal parts may be seriously damaged.

Where the Mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

The batteries (battery pack of batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.



Supplied Accessories

Check the supplied accessories before installation.

In case of missing or damaged, please contact the dealer immediately.



Remote Control



User Manual, Warranty Declaration and Warranty Card

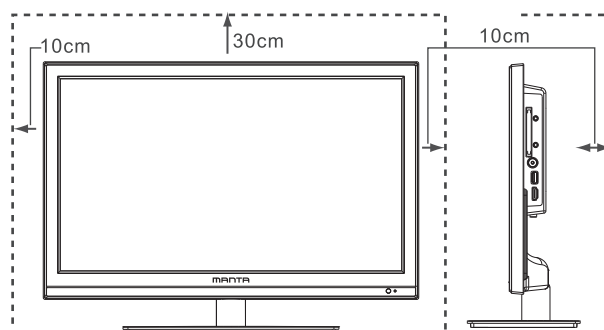


- The accessories also consist the stand and attached screws to fix the stand to the main TV cabinet.
- If the TV set hung on the wall (wall rack is not included in the kit and purchased separately), keep the screws and stand for possible future use.

Preparation

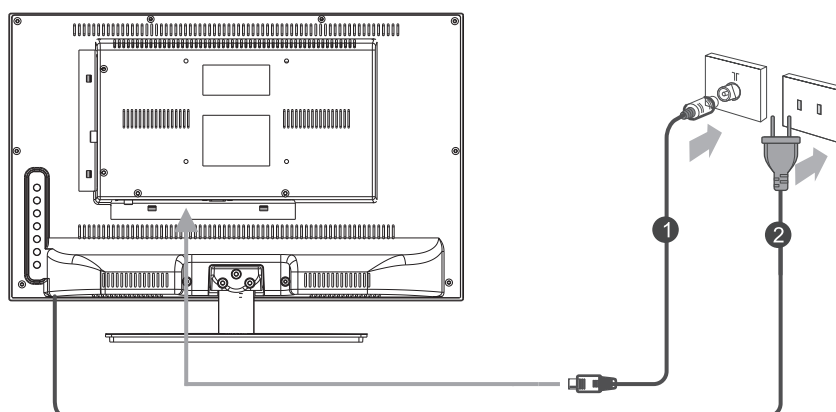
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Positioning the TV set



Place the TV on a firm and flat surface, leaving a space of at least 10cm around the set and 30cm from the top of the set to the wall.

Antenna and Power Connections



- 1 Connect the antenna cable into the antenna input terminal at the rear panel and wall antenna socket.
- 2 Connect the power plug into the wall outlet.

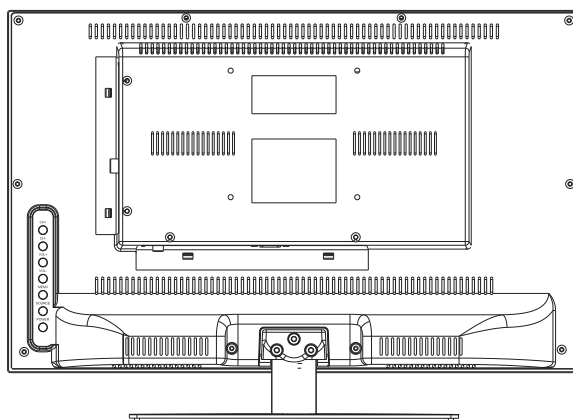
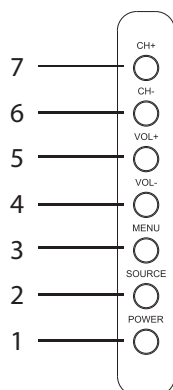
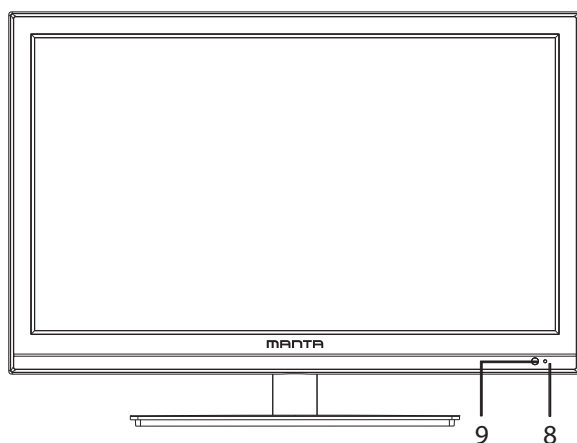


• The type of power plug provided may be different from the above picture for some countries.

Preparation

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Front and Side Panel

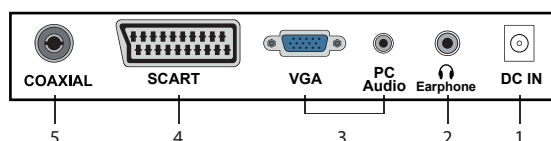
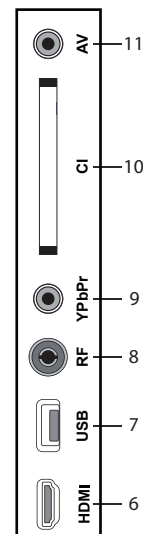
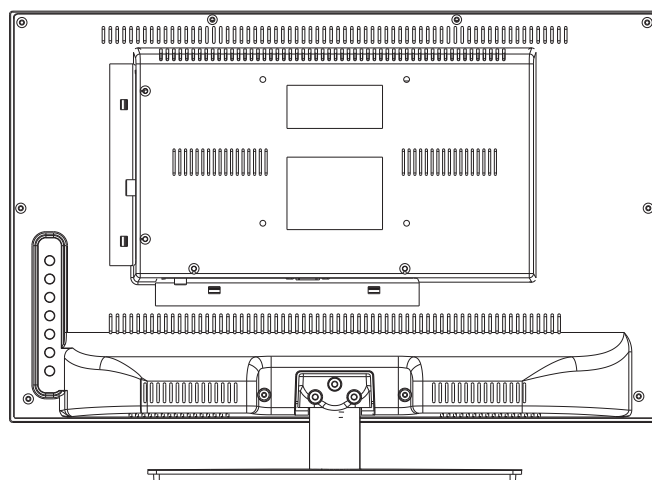


1. **POWER** button: turn the television on/switch it to stand-by mode
2. **SOURCE** button: select a signal source
3. **MENU** button: enter the menu
4. **VOL-** button: lower the volume
5. **VOL+** button: increase the volume
6. **CH-** button: select the previous channel
7. **CH+** button: select the next channel
8. **Remote control sensor**: receives the signal from the remote control
9. **LED indicator light**: shows the status of the device (green = on, red = stand-by mode)

Functional Overview

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Rear Panel



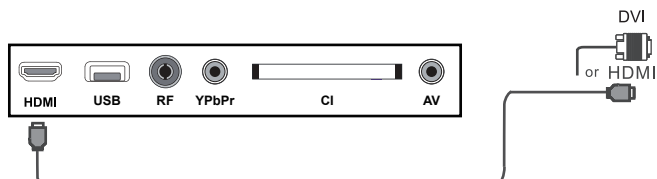
1. **DC 12V:** connect a power adapter connector
2. **Earphones :** connect headphones
3. **VGA/PC Audio:** connect to a PC or another device with a VGA connector
4. **SCART:** connect to an external device via a SCART connector. The SCART interface offers RGB, AV signals with audio input/output between the TV and the external device.
5. **COAXIAL:** connect to a 5.1 audio system
6. **HDMI:** connect an AV device with a HDMI connector
7. **USB:** connect a USB device
8. **RF:** connect a VHF/UHF antenna or an antenna cable
9. **YPbPr:** connect to a DVD player, set-top-box or another AV device with component video output (YPbPr)
10. **CI:** connect a CI module
11. **AV:** connect video output from a DVD or VCR

Connections

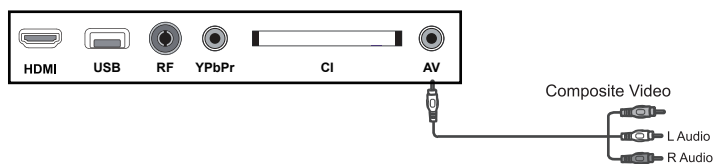
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You can connect VCR, DVD player, set-top box, computer, game console or other video equipment to the TV. To view external source images, press  to select the input source.

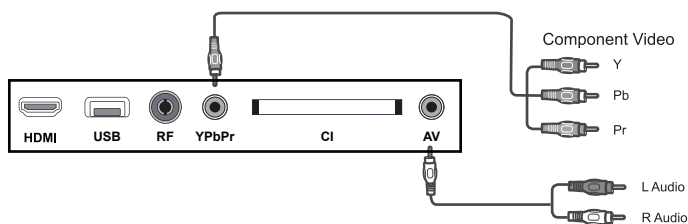
Connecting an AV Equipment with HDMI Connector



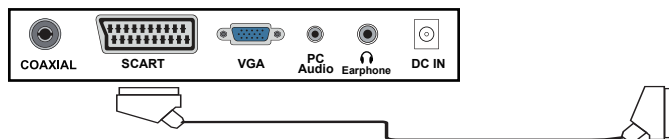
Connecting an AV Equipment with AV Composite Connector



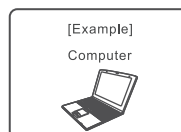
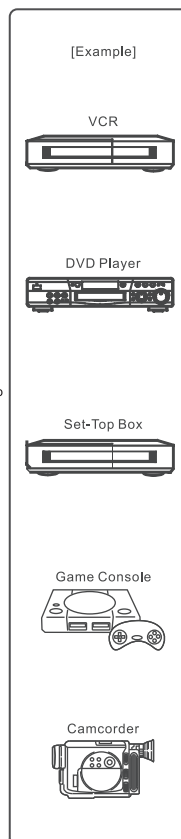
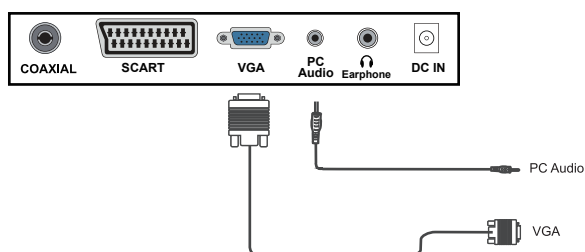
Connecting an AV Equipment with Component (YPbPr/YCbCr) Connector



Connecting an AV Equipment with SCART Connector



Connecting PC (DVI)



- If the external equipment has DVI output, you can connect it to the HDMI terminal using a HDMI-DVI cable. In case of using the HDMI-DVI cable, connect analog audio signal to RGB/HDMI Analog Audio Input terminal.
- Please refer to the user manual of the external equipment for more information on the connection to the TV.
- Please disconnect all the power supplies to the equipment and TV before connection.

Connections

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PC Connection

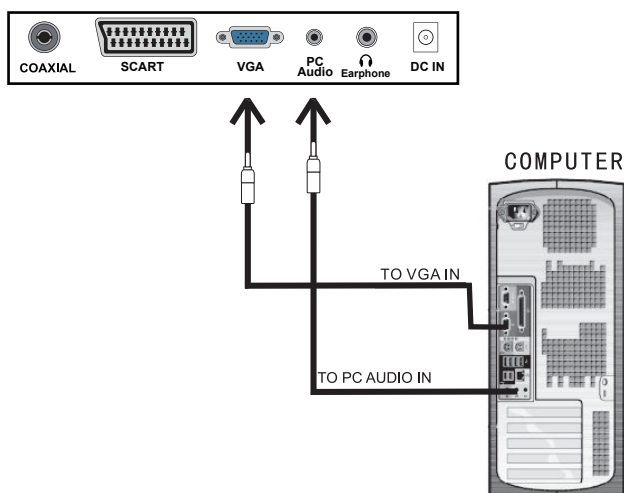
1. Receiving PC Signal

To connect LED TV with PC, enjoy much clearer and more realistic video and audio.

Connect process:

- Make sure that both units, TV set and your PC are switched Off.
- Connect D15 pins VGA plug to Computer VGA Video plug, and the other side of the cable connect to D15 VGA input plug of your TV set. Tighten and screws plugs.
- Connect TV and PC to power supply.
- Firstly switch on TV set, than switch on PC computer.
- Set up the input mode of the TV set on the PC RGB Mode through control panel on the unit cabinet or **SOURCE** button on the remote controller.
- Adjust Volume by **VOL+** or **VOL-** buttons through control panel on the unit cabinet or VOL button on the remote controller.
- TV set can sustain the pixel rates as presented in table form below. Please adjust correct resolution on your PC to adjust optimal quality of the picture.

Pixel rate	640×480	800×600	1024×768	1366 x 768	1920 x 1080
Row. Freq (Hz)	31,46 -37,50	37,88 - 46,88	48,36 - 60,02	55,00 - 60,00	56,58 - 60,00
Scen Freq (Hz)	60 - 70	60 - 75	60 - 75	60 - 75	60 - 75



First Installation

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Auto Installation

If this is the first time you are turning on the TV and there are no programs in the TV memory, the **Auto Installation** menu will appear on the screen. There are 6 setups as follow:

Setup1: Set up the Mode. Please select by the **Up/Down** buttons on the remote controller the Mode where you install your TV set and press **OK** button to confirm..



Setup2: Set up the Country. Please select by the **Up/Down** buttons on the remote controller the Country where you install your TV set and press **OK** button to confirm..



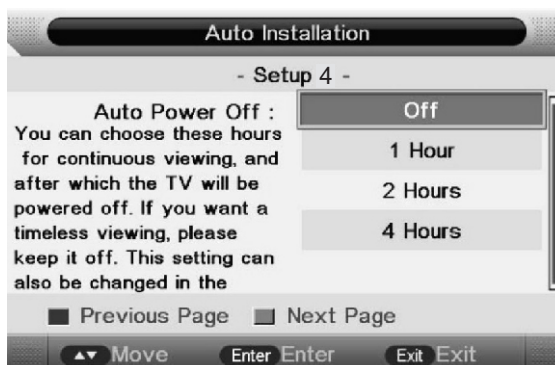
Setup 3: Set up language. Please select by the **Up/Down** buttons on the remote controller the Language and press **OK** button to confirm..



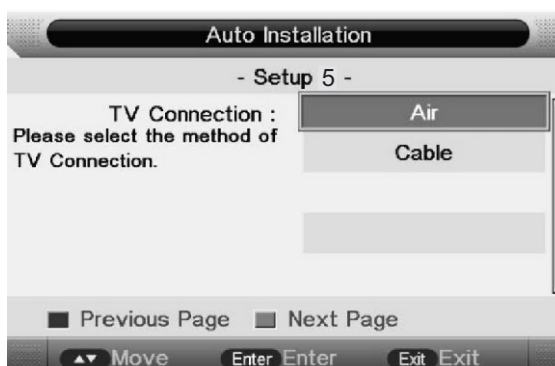
First Installation

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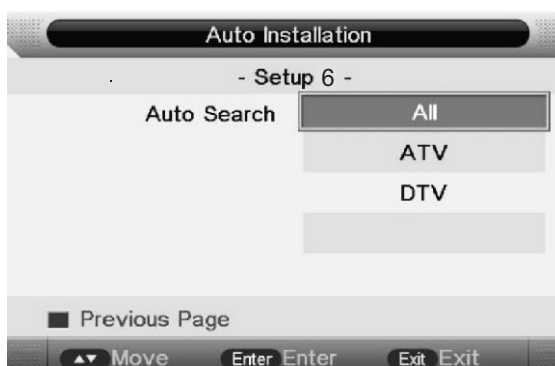
Setup4: Set up the Auto Power Off. Please select by the **Up/Down** buttons on the remote controller the Auto power Off time. In the case that no any comands in tuned time, TV set will automatically switch off. To switch off Auto Power Off time, choose **Off** or adjust desired time of Auto Switch off function.



Setup 5: Set up TV Connection type. Please select by the **Up/Down** buttons on the remote Receiving Signal Type and press **OK** button to confirm.



Setup 6: Set up Auto Search Type. You can choose **All** programs search, only **ATV** (Analog TV) or **DTV** (Digital TV) programs. Please select by the **Up/Down** buttons on the remote Receiving Signal Type and press **OK** button to confirm.



Then, TV System will Search all frequency band and find all available TV programs, according to above setup.

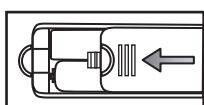
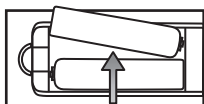
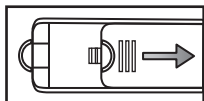
All programs will be stored in the memory.

You can **Edit** all programs (**Delete, Move, Swap, Skip, Lock etc...**) additionally.

Remote Control

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Installing The Remote Control Batteries

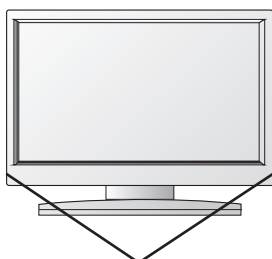


1. Open the battery compartment cover on the remote control.
2. Insert 2x 1.5V AAA batteries in the right direction towards the polarity markings on the remote control
3. Replace the lid on the remote control slide in the opposite direction until you hear the sound of the lid.

If you long time will not use the remote control, remove the batteries to avoid possible damage caused by batteries leakage. The damage due to leaking batteries is not covered by warranty. The batteries shall not to be exposed to excessive heat such as direct sunshine or fire.

Danger of explosion if battery is incorrectly replaced. Replace batteries only with the same or equivalent type.

Dispose batteries into recycling waste, according to the instructions. Do not drop the batteries into standard waste.



Working conditions

Point the remote control receiver to the LCD LED unit in the range of 30° left or right of the unit.

Infrared sensor will respond to remote control within the range of 7 meters.

Power On/ Off

Turning on the TV

1. Plug the TV's power cord into a wall outlet (after this step, the main unit will turn on and enter standby mode automatically).
2. Press the **(Power)** button on the TV, or press the **(Power)** button on the remote control. The TV will turn on.

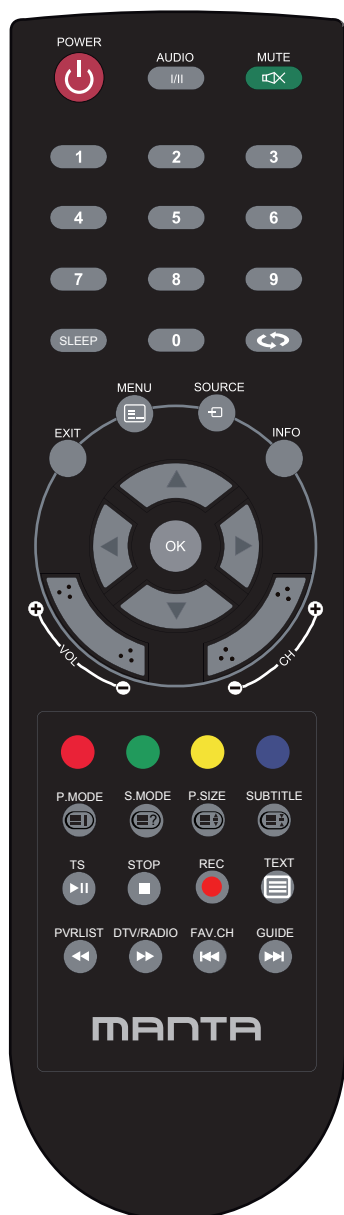
Placing In Standby Mode

Your TV can be placed in Standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the Power button.
2. To switch back on, simply press power button.

Remark: Do not leave your TV in Standby mode for long periods of time. (when you are away on holiday, for example). It is the best to unplug the set from the mains and aerial.

Remote Control

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POWER Turns the LED TV on and into standby mode.

AUDIO Audio selection button

MUTE Mutes and restores your LED TV sound.

0-9 Pressing a number selects a channel.

SLEEP Set the sleep timer.

↔ Switches back and forth between the current and previous channels.

EXIT Exits the OSD menu.

D.SET In DVD mode, press to enter/exit DVD setting menu.

MENU Displays the OSD menu on the screen.

SOURCE Pressing SOURCE displays the source list, use ▲▼ to select the video equipment connected to the video inputs of your LED TV and press OK button to confirm.sound.

INFO Pressing once displays a variety of information such as the current channel and the input source.

▲▼◀▶/OK Allows you to navigate the on-screen menus and adjusts the system setting to your preference, OK confirms option settings. OK displays the channel list.

V+/V- Increases and decreases volume.


P+/P- Scans up and down the channels.

● ● ● ● Press the appropriate colour to direct access functions in TELETEXT, GUIDE mode.


Remote Control

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P.MODE Selects picture mode

 Displays the main index in Teletext mode.

S.MODE Selects sound effect options

 Reveals hidden information such as the answer to a quiz in TELETEXT mode.

P.SIZE Cycles through Wide mode settings


 Displays the top, bottom or all of page,

SUBTITLE Displays the subtitle menu on the screen in DTV mode, use ▲▼ to select the TV subtitle options.

 Freeze a multi-page passage on screen in Teletext mode.

REC In DTV mode, Press REC button to start recording, press ■ button to stop recording

TIME SHIFT In DTV mode. Click in the DTV mode key to start the delay function, press the play button to start playing delay program, press the ■ key to terminate the delay functions.

 In Media mode, press to start playback or pause.

■ In Media mode, press to stop playback, track.chapter or track.

TEXT Turns on and off the Teletext function.

PVR LIST In DTV mode, displays the executed PVR LIST and Index

◀◀ In Media mode, use to reverse/advance

DTV/RADIO In DTV mode, press DTV/RADIO button to enter DTV or RADIO mode. ▶▶ playback rapidly.

FAV.CH Pressing FAV.CH displays favorites.

◀◀ In Media mode, press to jump to the previous of the currently played chapter or track.

GUIDE Displays the Programme Guide on the screen in DTV mode. Pressing again to turn GUIDE off.

▶▶ In Media mode, press to jump to the next of the currently played chapter or track.

Note: DVD MENU & ▲ OPEN/CLOSE keys are available only for LED TV Built-In DVD Player Series.

Changing Programmes


Using the programme selection buttons on the remote control to change programmes

To select a programme, press the corresponding programme selection button on the remote control. For example, to select programme 8, press the "8" programme selection button on the remote control.

Using the CH+/- buttons to sequentially change programmes

Press CH+/- buttons on the remote control or on the TV to sequentially select the TV programmes available in you area.

Using the button to return to the previous programme

To return to the previous viewed programme, press the  button on the remote control.

Basic Operation

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Power On/Off

To turn on the TV

- 1 Connect the power plug into the wall outlet.
The power indicator lights in red, indicating that the TV is in standby mode.
- 2 Press .
The power indicator lights turns off and the TV turns on.

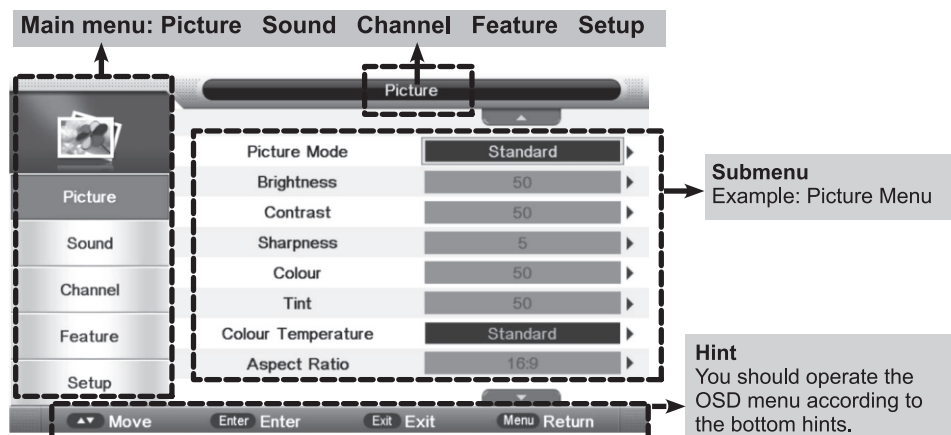
To turn off the TV

Press .
The power indicator lights in red and the TV turns off to standby mode.

- It takes approximately 10 seconds for the picture to appear after the TV is turned on.
- The TV will switch to standby mode automatically if there is no signal input for 10 minutes.
- If the TV will not be used for a long periods of time, unplug the TV from the wall outlet.

Basic operations of OSD menu

Press "MENU" button on the TV set or Remote control to display the Main OSD Menu as below:



Press button to select the Main Menu, then press /OK button to enter the Submenu.
In Submenu, press button to select the Item, then press /OK button to enter into adjust and press / button to adjust item.
Press **MENU** or button to return to the previous Menu.
Press **EXIT** button to exit from Menu Display.

Note: Only when you input suitable Source, the relevant items can be activated.

Volume Adjustment

To change the volume

- 1 Press **V+** to increase the sound volume.
- 2 Press **V-** to decrease the sound volume.

To mute the sound

- 1 Press to temporarily turn off the sound.
- 2 Press or **V+** to restore the sound to previous level.

• You can decrease the sound volume by pressing **V-** while the sound is muted.

Input Source Select

To select input

Press **SOURCE** button on the TV set or Remote control to display the input source menu.

- 1 Press **CH+/-** or to select the input source.
- 2 Press **OK** button to confirm chosen input source

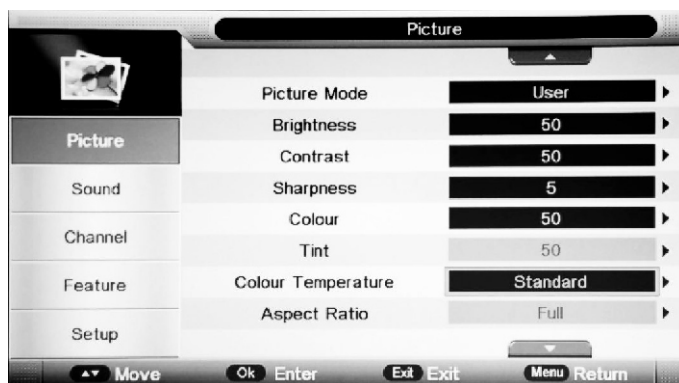
Before you select the input source, make sure the connections are prepared.



Menu Operation

MANTA

Picture Setting



- Picture Mode:** Select your desired picture mode. You can set: Dynamic, Standard, Mild and User.
- Brightness:** Adjust image Black level (brightness).
- Contrast:** Adjust image Contrast.
- Sharpness:** Adjust the Sharpness (only in DTV, ATV, YPbPr, AV and SCART mode)
- Colour:** Adjust image color
- Tint:** Adjust image tint (only available in NTSC picture mode)
- Colour Temp:** Select an optimum color temperature mode to your eyes and room conditions. You can set: Standard, Cool and Warm.
- Aspect:** Change the aspect for the screen from Auto, 4:3, 16:9, Full, Zoom1.
- Noise Reduction:** To reduce noise and improve the appearance of the picture. You can set option from Low->Middle->High, noise reduction effects better picture but it will cause a blur on picture.

Sound Setting



- Sound Mode:** Select your desired sound mode. You can set: Standard, Movie, Music, Speech and User sound mode.

Menu Operation

MANTA

- Bass:** Adjust the level of the bass sound.
- Treble:** Adjust the level of treble sound.
- Balance:** Adjust the Audio output balance between left and right speakers.
- Surround:** Turn On/Off the Surround sound effect.
- Auto Volume Level:** The volume of the audio sources or TV programs will be automatically equalized to approximately the same audio level.
- SPDIF:** Select the SPDIF (Digital Audio) mode. You can select: Off, PCM or Auto.

Channel Menu (ATV, DTV mode)



Channel Management

Enter the Channel management menu to edit the channels (Delete/Rename/Swap/Lock/Skip).

Note: You have to enter the Password (Lock Password in Feature menu) if you want to edit the channels.



RED button: Press RED button to sign the channel you want to delete.

GREEN button: To Lock or Unlock channel.

To watch a locked channel the system will required to enter the password after you switch on Lock function in Lock-Lock Channel Menu in the Feature menu..

Menu Operation

MANTA

YELLOW button: Skip the channel or skip setting cancel.

When option skip is enabled, then the channel will be skipped by using the button **CH+/-**. Direct access to the desired channel is always possible with numeric enter by remote.

BLUE button: Swap the position of the channels. Sign the channel by pressing **BLUE** button, move signed channel by pressing **▲/▼** buttons and press **OK** button to swap position.

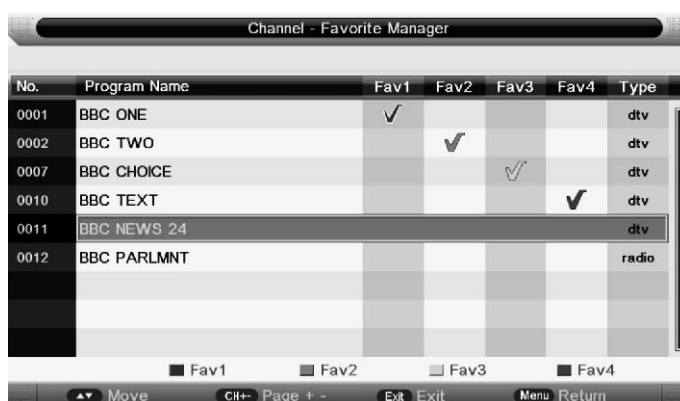
Press **OK** button to enter the Rename menu to rename the ATV channel. DTV channel renaming is not possible.

Favorite Management

Add or Remove channels into FAV lists by the correspondings color buttons.

Up to 4 Favorite lists are available. RED-FAV1, GREEN-FAV2, YELLOW-FAV3, BLUE-FAV4.

Note: You could display Favourite lists 1/2/3/4 by press the **FAV** button once / twice / three times / four times.



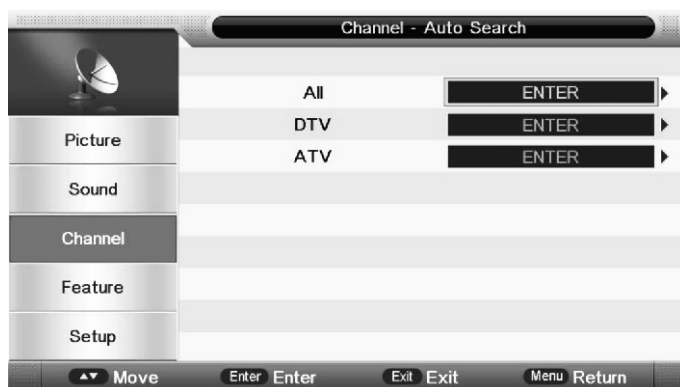
Country

Select the Country where you install your TV set.

Auto Search

Note: When the Child Lock is Active, please enter the Password (Lock Password in Feature menu) to start Auto and Manual Search

Press **OK** button to enter the Auto Search menu, select search mode and press **OK** button to start with Auto search function.



Menu Operation

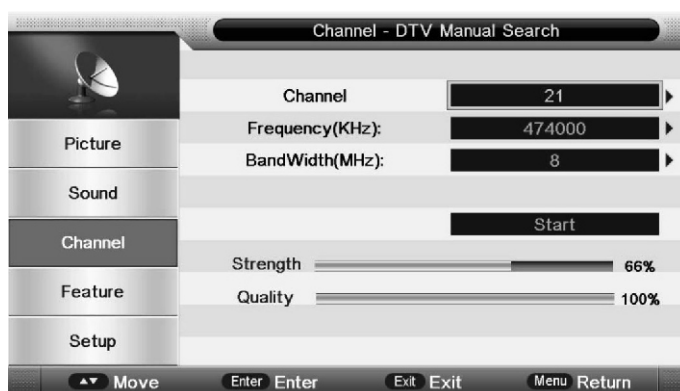
MANTA
Note:

1. **ALL:** Auto search all channels (ATV+DTV+Radio)
DTV: Auto search for DTV and Radio channels only.
ATV: Auto search for ATV channels only.
2. When the TV is in Auto Search mode, you could press **MENU** button to Stop Auto Search function and return to previous Menu.

Digital DTV Manual Search

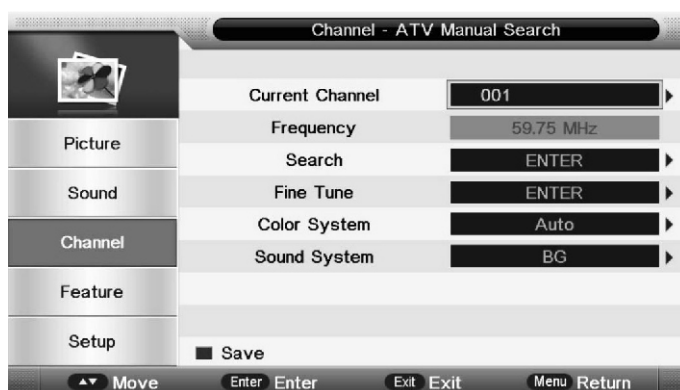
Enter the DTV Manual Search menu.

Press **▲/▼** button to select the Channel item and press **OK / ►** button to select the channel. Than press **▲/▼** button to select the **START** item and press **OK/►** button to start with Manual Search function.



Analog ATV Manual Search

Enter the ATV Manual Search menu.



Current Channel: Select the current channel for manual search.

Search: Press **OK** button to enter the search menu, and manual search the frequency by the button.

Fine Tune: Press **OK** button to enter the Fine Tune menu, and fine tune the frequency by pressing **◀/▶** button.

Color/Sound System: Select the Color / Sound system for the program.

Menu Operation

MANTA

LCN On/Off

It is the channel sort method. LCN Function enable user presentation of services number in a convenient and familiar form. Enter the DTV Manual Search menu.

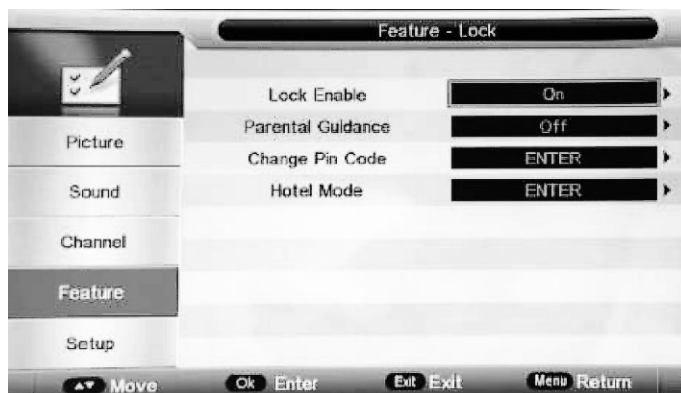
Feature Menu



Lock

This Menu allows you to Lock certain features of the TV, so that they can not be used or viewed. For example, if you don't want certain channels viewed by children or if the TV set is to be used in the Hotel and you want to lock certain channels or Menues.

When you enter to the system lock, you will be asked for a password. Default Password is "0000".



Lock Enable: Turn On/Off Lock functions.

Note: When option is turned on, the functions or Parental Guidance and Change Pin Code will be locked. Functions Lock (in Channel Menagment), Auto Search, DTV and ATV Manual Search in Channel Menu will be locked also.

Parental Guidance: Select the Parental Guidance Level or Turn Off function.

Change Pin Code: Press OK button to enter, first enter the current code, than enter your new code and confirm your new code once again.

Menu Operation

MANTA

Language

This Menu allows you to adjust Language of the System and other language Setups.

To enter into Menu press **OK** or ► button.

Clock

This Menu allows you to adjust Clock Setup, Date, Time Zone and DST option (summer time).

To enter into Menu press **OK** or ► button.

Sleep Timer

This Menu allows you to adjust Sleep Timer. You can adjust time counter to automatic switch-off the unit from 10mins to 240mins.

To enter into Menu press **OK** or ► button.

Auto Power Off

This Menu allows you to adjust Auto Power Off function. This means that if at the adjusted item time is not pressed by any command on the remote or the controls on the cabinet, the TV set will automatically switch off. Function can be set up on hours (1hour, 2hours, 4 hours) of work time or turn it off.

To enter into Menu press **OK** or ► button.

Hearing Impaired

This Menu allows you to adjust Hearing Impaired function. If Broadcaster transmit Hearing Impaired Service, this function offers a subtitle such as a "stroke on the door" or "the bell starts to ring" for the current scene in case that the user is weak in hearing.

To enter into Menu press **OK** or ► button.

CI Info

This Menu display main information about CI Card (if CI Card is connected)

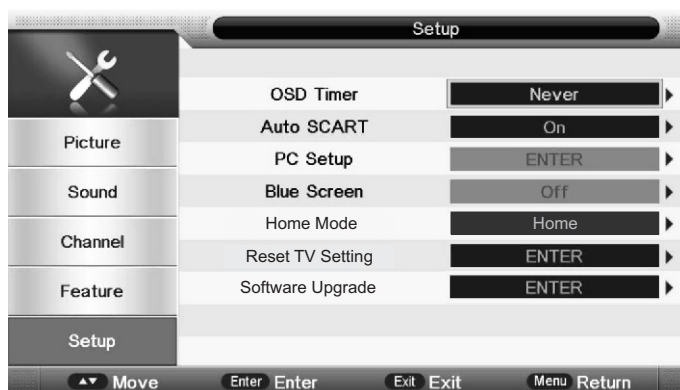
To enter into Menu press **OK** or ► button.

PVR/TimeShift

This Menu allows you to setup PVR and TimeShift function. For setup, please follow instructions on the screen.

To enter into Menu press **OK** or ► button. For more info, please prefer Chapter "PVR/TimeShift functions."

Setup Menu



OSD Timer

This option allows you to adjust the amount of time the ON Screen menu stays on the screen before disappearing. You can adjust disappear time: 5, 10, 15, 20, 25, 30 seconds or Never.

Auto Scart

The TV will change automatically on SCART source when you connect the TV to SCART device.

Menu Operation

MANTA



PC Setup

This Menu allows you to adjust PC Settings in PC mode.

Auto Adjust: Setup the screen adjustment automatically.

H/V Position: Adjust the transverse/vertical position of the screen.

Phase: Adjust the Phase of the ADC Sampling clock relative to the sync. signal, until a stable image is obtained.

Clock: Adjust the pixel clock frequency, until the image size is maximized for the screen.

Blue Screen

Change the background when there is no input between clear and blue background (Only available is some sources)

Home Mode

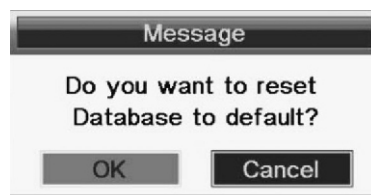
there are 4 options include home ,dynamic,standard,mild. the 4 options can adjust the saved solution. default is: standard.

Reset TV Setting

This option clears all the TV settings for the television.

If the Lock Channel is On in Feature Menu/Lock , it needs to enter the password to enter the Reset. It will Reset System Setting and Database. When the reset is complete, it will enter the Auto Installation settings page.

First, it will show a page to user to confirm. as follow:



Software Upgrade

This menu lets you upgrade software onto the television. Further details of how to do this will be issued with the firmware. Contact the helpline or refer the "product support" section in Service point.

TV Operation

MANTA

Multimedia - USB

Photo

Supported formats you can find in Chapter: Technical Pages

Highlight the "PHOTO" item in multimedia mainmenu by press ◀/▶ key, then press **OK** key enter photo page, as follow:



Key Operation

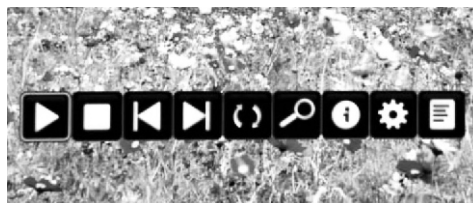
- 1) **RED** Delete the focused folder/file.
- 2) **GREEN**: Add/Del all photo files to play list.
- 3) **OK**: Add/Del highlight files to play list.
- 4) **CH+/-**: Page up/Page down.
- 5) **PLAY**: Play the files in play list.

Playback

Press **PLAY** ▶▶ to start Playback.

Key operations:

- ▶ Same as **PLAY** key on remote, to start playing pictures in slide show mode
- ⏏ Same as **PAUSE** key on remote, to pause the playing file
- ⏏ Same as **STOP** key on remote, to stop sliding show, and return to the file browser.
- ◀▶ Same as ◀◀ / ▶▶ key on remote, to play the previous or next file directly.
- 🔄 To rotate the playing picture (0°, 90°, 180°, 270°).
- 🔍 To Zoom the playing picture.
- ℹ Same as **INFO** key on Remote, to display information pf the current file.
- ⚙ To enter "Photo Setup" menu, including **Repeat Mode**, **Background Music**, **Music Source**, **Slide Time and Effect**.
- 📄 To eneter the Play List menu.

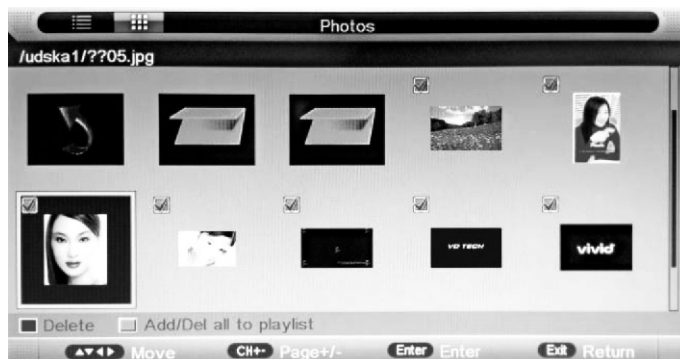


TV Operation

MANTA

Thumbnails

1. Thumbnails mode can be shown only in Photo mode and highlight in file browser by press **EXIT** and **RIGHT** key as follow:



2. The direction keys are to move highlight in files.
3. Press **EXIT** key, and press **LEFT** key, exchange to photo list mode.

Music

Supported formats you can find in Chapter: Technical Pages

Highlight the **"MUSIC"** item in multimedia mainmenu by press ◀/▶ key, then press **OK** key enter Music page, as follow:



Key Operation

- 1) **RED** Delete the focused folder/file.
- 2) **GREEN**: Add/Del all musico files to play list.
- 3) **OK**: Add/Del highlight files to play list.
- 4) **CH+/-**: Page up/Page down.
- 5) **PLAY**: Play the files in play list.

Playback



Press **PLAY** ▶▶ to start Playback.



Key operations:

- ▶ Same as **PLAY** key on remote, to start playing music file, or resume the paused file.
- ⏸ Same as **PAUSE** key on remote, to pause the playing file.
- ⏹ Same as **STOP** key on remote, to stop playing file..

TV Operation


MANTA

 Same as  key on remote, to play fast backward or forward. The speed can switch to twice, four times, eight times and sixteen times, and displayed with x2, x4, x8, x16 on screen.

 Same as  key on remote, to play the previous or next file directly.



 To switch the repeat mode, including **Repeat 1, Repeat All, Repeat Dir, Random**.

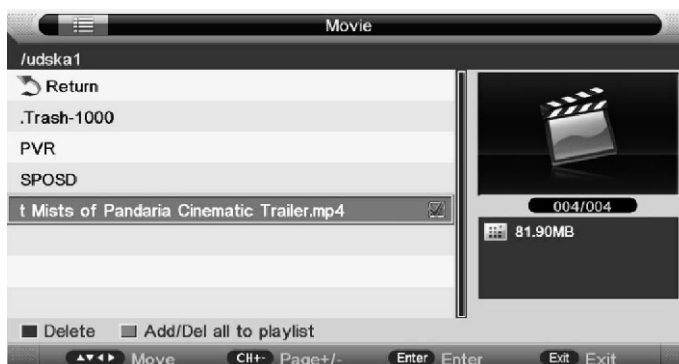
 To switch the window between Information and Play List.

 Same as **BLUE** key on Remote, to close the panel only in MUSIC mode, and then it can be opened by every key on remote.

Movie

Supported formats you can find in Chapter: Technical Pages

Highlight the "**MOVIE**" item in multimedia mainmenu by press  /  key, then press **OK** key enter Movie page, as follow:



Key Operation

- 1) **RED** Delete the focused folder/file.
- 2) **GREEN**: Add/Del all files to play list.
- 3) **OK**: Add/Del highlight files to play list.
- 4) **CH+/-**: Page up/Page down.
- 5) **PLAY**: Play the files in play list.













Playback

Press **PLAY**  to start Playback.



TV Operation

MANTA

-  Same as **PLAY** key on remote, to start playing movie file, or resume the paused file.
-  Same as **PAUSE** key on remote, to pause the playing file.
-  Same as **STOP** key on remote, to stop playing file and return to the file browser interface.
-  Same as **◀/▶** key on remote, to play fast backward or forward. The speed can switch to twice, four times, eight times and sixteen times, and displayed with x2, x4, x8, x16 on screen.
-  Same as **◀◀/▶▶** key on remote, to play the previous or next file directly.
-  To enter slow mode. The speed can switch to 1/2, 1/4, 1/8, 1/16, and displayed with x1/2, x1/4, x1/8, x1/16" on screen.
-  To enter step mode.
-  To set AB Repeat, the first press A point, and the second press B point. and then Play between A and B repeatedly.
-  To enter the Play List Menu.
-  Same as **INFO** key on remote, to display the information of the current file.
-  To enter Movie Setup menu, including **Program, Subtitle, Audio, Repeat Mode**.
-  To enter **GO TO** function, user can input the time he want to start directly.

eBook

Only bit format eBook is supported.

Highlight the "**E-BOOK**" item in multimedia mainmenu by press **◀/▶** key, then press **OK** key enter Movie page, as follow:



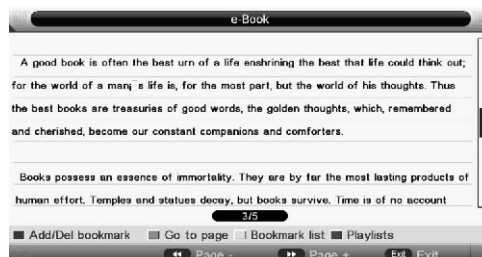
Key Operation

- 1) **RED** Delete focused Folder/File.
- 2) **GREEN:** Add/Del all files to play list.
- 3) **OK:** Add/Del highlight files to play list.
- 4) **CH+/-:** Page up/Page down.
- 5) **PLAY:** Play the files in play list.

Playback

Press **PLAY**  to start Playback.

- 1) **RED** To Add/Delete bookmark.
- 2) **GREEN:** To input the page number directly.
- 3) **YELLOW:** To enter the "**Bookmark list**" page.
- 4) **BLUE:** To enter the "**Play list**" page.
- 5.) **◀/▶** To Page Down / Page Up
- 5) **EXIT:** To close the file and return to the file browser.



EPG (Electronic program Guide)

If you expect to know the schedule or the information of the current playing program or the program that starts in the near future, you can refer to the EPG menu by pressing the button EPG, date and time on the top right of the menu, the list of the current available channels on the left side of the menu, and the name of each program that starts in a scheduled period of time on the right of the menu. Change the focused list by pressing ◀/▶, or the focused program by pressing ▲/▼. The information of the currently focused program will be displayed on the top of the menu.

There are 3 modes of EPG menu:

Daily mode: Shows the information of the programs to be broadcasted in daily mode. Display the information of the programs that start in a scheduled period of time in the current channel. It includes name, start time, end time, short content description, current date/time, etc.



Weekly mode: Shows the information of the programs to be broadcasted in weekly mode. Display the information of the programs that start in a scheduled period of time in the current channel. It includes name, start time, end time, short content description, current date/time, etc.

Extended mode: Shows the detailed information of each program. Press **INFO** button to display Extended Informations. Press **EXIT** button to return back into Daily EPG mode.

PVR (Personal Video Recorder)

This section is to introduce some contents about PVR, including PVR involved menus, Recording flow, Recorders playback, Recording restrictions.

PVR / TimeShift Menu

PVR/Timeshift menu manages almost all the information that have relationship with PVR.

Enter method: Main menu -> feature -> PVR/Timeshift -> PVR/Timeshift menu

TV Operation

MANTA


In PVR/TimeShift Menu you can adjust:

Record File Format

Recording Format: TS or PS.

Partition Select

Enter into Partition Select Menu. You can Display Partition information, make Format Partition and Set Default partition

Auto TimeShift

Off: Stop Auto TimeShift, Auto: Start Auto Time Shift

TimeShift Buffer

Set TimeShift Buffer time: Auto - 30mins - 1hr - 2 hr

Timer

Enter into Timer menu for adjusting the Recorder Timer.



Ch.No: Channel Number

Channel: Channel name

Start: Start: Recording Time

Duration: The total Recording time

Date: The Date of Recording start

Mode: Record Mode: Once, Daily, Weekly, Month

To Add a new Timer, press **YELLOW** key.

To Edit Timer, press **BLUE** key.

To Delete Timer, press **RED** key, to delete all Timers, press **GREEN** key.

TV Operation

MANTA

Edit Timer

Timer Edit	
	05/09/2001 06:57:04
Recorder	On
Type	DTV
Channel	BBC ONE
Start Time	06:56
Duration	00:00
Date	05/09/2001
Mode	Once
Move 0-9 Enter Enter Menu Save	

Recorder:	Off-Timer is Reminder only, On-means to preengage program for watching and recording.
Type:	Type of Program: DTV or DTV Radio
Channel:	Name of the Timer program
Start Time:	Start Recording Time
Duration:	The total recording time. The status of this option is enable only when Recorder is On.
Date:	The Date of starting Recorder/Reminder.
Mode:	Once, Daily, Weekly, Month.

Record List Record List menu manages the Recorded programs. User can playback recorders in this menu.

Recorder Start Enter into menu to Start Recording DTV Channels.

REC (Recording DTV channels)

You can make record DTV programs only. Recorder file do not contain Teletext, EPG and Subtitle information.

Max size of Recording file is up to 3,9GB. If a long-time recorded file takes more than 3,9GB, it cuts and makes a new file named by adding an extra sequence number.

Standard Recording

To start Record Channel, please press **REC** key.

it will pop up a message "Do you want to start Recording?". After confirm, the system will read the speed of the storage device. If the speed is too low for recording, there is a message "Device speed not enough, RECORD anyway?" if user choose Yes, it will record constrainedly. In addition, the speed is high enough, it initializes in the first instance and starts to record later.

As the initialization successfully ends, a REC input info menu appears on the right top corner of the picture and it starts to record while the program is playing in the background.



TV Operation

MANTA

Press **INFO** key to get the current recording information from the Info Banner, such as current recording time and the recording progress. The recording time depends on how much of the program has been recorded actually.

The recording progress will stop when the USB device has no more free spaces if there is no setting about when to end before. A warning message pops up, the recording process stops and it will keep on the normal playback process. Otherwise the progress ends naturally when the timer is timeout. Also user could press **STOP** key to end recording manually.

EPG Recording:

In the **EPG Menu** you can preengage Programs for watching or Recording.

In EPG menu, Press **GREEN** key for activate **Reminder** of highlited program, or press **GREEN** key **Twice** to activate **TimerRecord** function.

Reminder mode: when timeout is reached, unit automatically jumps to the program and only play

TimerRecord mode: when timeout is reached, unit automatically jumps to the program and starts recording. If it is timeout in standby mode, it will power on 2 minutes in advance and starts to record under background, without powering on the panel. To watch the program, user need to press **POWER** key.

Edit EPG Recording

In Timer menu, you can Increase, Delete or Edit preengage programs.

In the Timer Menu, press **YELLOW** button to Add or **BLUE** key to Edit Timer.

For more details about Add or Edit Timer, see chepter: "PVR (Personal Video Recorder) / Timer"

When the timer recorder is timeout, it jumps to the very channel and starts to record the program automatically (if a manual recording is under process, it will stop the manual recording process and starts the timer recorder automatically). When there is left 10s before recorder, a prompted window will pops up:



TimeShift

Timeshift can record program and play the current recording program at the same time. You can paused watching program (for example when telephone ringing) and after finsih your telephone talk, you can continue to watch paused program.

To activate TimeShift, please keep plug in USB storage Device and Set Timeshift Buffer in PVR / TimeShift menu. Timeshift Buffer means how long a recorder can be stored when Timeshift is active. If Buffer is overstepped, the previous recorder stored there will be lie over; There are three modes: Auto, 30Mins, 1h, 2hr. Auto means that Time shift will use all the free spaces on the storage media.

Activate Time Shift

In the normal playback process in DTV source, there are two ways to start timeshift:

1. Manually: Press **PAUSE** to start Timeshift when there is no menu focused (Stop: Press **STOP** key.
2. Automatically: Set the Auto Timeshift option as **Auto** in PVR/TimeShift Menu.
To stop setAuto TimeShift as **Off**.

Before Manually Timeshift, there is a message "**Do you want to start Timeshift**". After confirm, it will check whether the speed of the storage device that the user inserted is enough for Timeshift. If the speed is not enough, a warning message will pop up to let the user make decision whether to go on. If timeshift is force to take place, there may be some pause or mosaic. Otherwise the speed is enough for Timeshift, it'll take place under background and users are able to pause or move fast backward. After a pause, users are able to pause or move fast backward.

After Automatically Timeshift, it will take some minutes to initialize, then it take place automatically.





REC and TimeShift Playback

Play Videos and Recorded files

The recorded Videos can be played in:

- Record List Menu
- Record Manager Menu
- Source Media

When a video playing, the Info Banner menu shows the length of the video and the time that the video has been played. Also there is a progress bar indicating the process of playing the video.

Pause/Play	When a video playing, pause the process by pressing the button and restart the process by another press again.
Fast Forward Fast Backward	A playing video can move fast forward or backward with the speed: x2, x4, x8, x16 or Play in a normal speed .
Previous Next	When a video playing, it can jump to the previous or the next video to play by pressing the buttons.
Stop	When a video playing, user can stop the process by pressing the button STOP and it goes back to the browser in movie mode

Restrictions

Device & File System

The USB host supports version 2.0 and is compatible with version 1.1, but it can't support card reader and USB Hub, neither Timeshift and timer recorder on USB 1.1.

Support Timeshift on programs which have a equal or lower rate than 8Mbps and support recorder on programs which have a equal or lower rate than 13Mbps(13Mbps is a test result of SAM USB2.0 High speed 320G).

Restrictions on USB device for Recorder

For programs which have a lower rate than 8Mbps, the USB device must have a rate higher than 14Mbps for Recorder and higher than 28Mbps for Timeshift. Otherwise there may be some pause or mosaic when do Recorder or Timeshift by force.

For programs which have a higher rate than 8Mbps, the USB device must have a rate higher than 20Mbps for Recorder and Timeshift is not supported. Otherwise there may be some pause or mosaic when do Recorder or Timeshift by force.

The USB device's file system supports FAT32 / FAT/NTFS.

The system supports 4 partition connection at most at the same time. The same partition is able to store 9999 recorded files at most, namely the biggest number of files is 9999. The maximum size of a single file the system supports is 4GB at present, When long "time recording" the file will be cut to create a new one automatically when its size reaches 3.9GB.

The system can support USB flashdisk and removable disk at present. However, it can not sure that all kinds of them could record or write into the storage very smoothly, especially when the file system is in disorder. If users are opt to use a USB flashdisk as the storage media, it is recommended to format the disk before use.

Troubleshooting

MANTA

If you notice a defect in the image or operation of the device, try to remedy the problem by following the instructions in the attached table. To determine the source of malfunction, check and connected external equipment. If the problem persists, contact an authorized service facility.

No sound or picture.	Check that the mains lead has been connected to a wall socket. Check that you have pressed the POWER button. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound.	Check the volume. Check whether the MUTE button has been pressed on the remote control.
No picture or black and white picture	Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference.	Try to identify the electrical appliance that is affecting the set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound.	Check the direction, location and connections of your aerial. This interference occurs often due to the use of an indoor aerial.
Remote control malfunctions.	Check the batteries in the remote control. They may need replacing. Operate the remote control at a distance of no more than 8 meter. Clean the upper edge of the remote control (transmission window). Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.
In PC mode "no signal" message is displayed.	Check that the signal cable is firmly connected to the PC. Check that the PC is turned on.
In PC mode, "Mode Not Supported" message is displayed.	Check the maximum resolution and the frequency of the video adapter. Compare these values with the data in the Display Modes.
No HDMI output	Check the video output is HDMI enabled. Check the connection between the TV and the HDMI jack of video input.

WARNING

To prevent the spread of fire, keep candles or other open flames away from this product at all times.

Technical specifications

MANTA

Supported USB reproduction

It can be happen that all supported records may not be reproduced, depending on the version of codecs and compatibility standards. If this happens, try your entry into another compatible standard or change the parameters with which you encrypt the file. The manufacturer is not liable for damages resulting from loss of records or the inability to play due to incompatibility or incompatibility of USB memory.

Type	Container	Video Decoder	Max Resolution
MOVIE	AVI	MPEG-4 ASP H.264 DivX Xvid WMV 9 / VC - 1	1920 x 1080
		MPEG-4 SP	CIF (352 x 288) QCIF (176 x 144)
		MJPEG	1280 x 720
	MPEG 1/2	MPEG-1 Video MPEG-2 Video	1920 x 1080
	MPEG4	MPEG-2 Video MPEG-4 ASP H.264 Xvid MJPEG H.264	1920 x 1080
	WMV	WMV 9 / VC-1	1920 x 1080
	RealMedia	RV30 / RV40	1920 x 1080
	Flash	Sorenson H.263 H.264	1920 x 1080
	QuickTime	MPEG-4 ASP H.264 MJPEG	1920 x 1080
	ASF	WMV3 / WVC1 MP4S / M4S2	
	Matroska Video	MPEG-2 Video MPEG-4 ASP H.264 Xvid DivX DivX Plus HD RV30 / RV40 WMV9 / VC-1	1920 x 1080
	DivX	MPEG-4 ASP DivX Xvid	1920 x 1080
	TS Stream	MPEG-2 Video H.264 WMV 9 / VC-1	1920 x 1080

Technical specifications

MANTA

Type	Container	Video Decoder	Max Resolution
PHOTO	JPEG		165370
	Progressive JPEG		61648
	BMP		101439
	PNG		101439
	GIF		
	TIFF		
MUSIC	WAVE	LPCM ADPCM	
	WMA	WMA STD WMA Prof	
	AAC	AAC-LC / HE-AAC	
	AC3	AC3 E-AC3	
	MPEG	MP1 MP2 MP3 AAC-LC HE-AAC	
	Read Audio	AAC / HE AAC Cook	
	Ogg	Vorbis	
	FLAC	FLAC	
	DTS	DTS	
	Special Note 1) USB only support PHOTO, MUSIC and MOVIE. The system automatically classified files, only show the supported files. 2) Support hard disk the maximum storage capacity is 1T. 3) Photo Not support EXIF format. 4) Flash non-support animation. 5) Support for text files.		

Note:
Specifications are subject to change without notice.

Technical specifications

MANTA

Input / Output		Specifications
VGA	x1	DB-15, 75Ω, 0.5~0.7Vp-p H/V: TTL Level
HDMI	x1	Video signal: 1080P (FullHD panel only), 1080i, 720P, 576i, 480P, 480i, Audio: LPCM (44.1KHz, 32KHz, 24 Bit, 20Bit, 16Bit)
CVBS input	x1	75Ω 1Vp-p (PAL/SECAM)
SCART	x1	RGB: 75Ω 1Vp-p
input / output		CVBS: 75Ω 1Vp-p Audio input: 20KΩ 0.5Vp-p
YCbCr / YPbPr	x1	Y: 75Ω 1Vp-p; Cb/Cr: 75Ω 0.7Vp-p Signal: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i
Audio input	x1	20KΩ 0.5Vp-p
TV (RF)	x1	75Ω unbalanced
headphones	x1	16~300Ω 100mW+100mW
USB 2.0	x1	

Working conditions:

Air pressure: 86kPa~104kPa
 Temperature: 5°C ~ 40°C
 Humidity: 10% ~ 85%

Storage:

Air pressure: 86kPa~104kPa
 Temperature: -20°C~55°C
 Humidity: 5%~95%

	LED2402	LED2205	LED1902
Panel size	LED 24" (60 cm)	LED 22" (55 cm)	LED 18.5" (47cm)
Max resolution	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1366 x 768(HD)
PC recommend res.	1920 x 1080@60Hz	1920 x 1080@60Hz	1366 x 768@60Hz
Pixel size	0.2715 x 0.2715 mm	0.2480 x 0.2480 mm	0.3mm x 0.3mm
Active panel surface	525.20mm x 297.20mm	477.2mm x 268.5mm	409.8mm x 230.4mm
Color numbers	16,7M 8bit color	16,7M 8bit color	16,7M 8bit color
Power	100-240V 60/50Hz, < 36W	100-240V 60/50Hz, < 36W	100-240V 60/50Hz, < 36W
Standby power consup.	0,26W	0,33W	0,35W
Audio amplifier (RMS)	3W + 3W	3W + 3W	3W + 3W
TV reception	ATV	PAL/SECAM BG/DK L/L	PAL/SECAM BG/DK L/L
DVBT / DVBC	MPEG4:QPSK/16-64QAM	MPEG4:QPSK/16-64QAM	MPEG4:QPSK/16-64QAM
Reception frequency	170-862 MHz VHF/UHF	170-862 MHz VHF/UHF	170-862 MHz VHF/UHF
Program memory	ATV:200 DTV:800	ATV:200 DTV:800	ATV:200 DTV:800
Remote control distance	> 8m +/- 30°	> 8m +/- 30°	> 8m +/- 30°
Product Dimensions	580x170x409 mm	523x170x379mm	455x170x341mm
Packing Dimensions	652x126x465 mm	596x122x436mm	529x120x410mm
Net weight	4.5 kg	3.9 kg	3.4 kg
Gross weight	5.8 kg	4.8 kg	4.2 kg



INFORMACJA O PRAWIDŁOWYM POSTĘPOWANIU W PRZYPADKU UTYLIZACJI URZĄDZEŃ ELEKTRONICZNYCH I ELEKTRYCZNYCH

Umieszczony na naszych produktach symbol przekreślonego kosza na śmieci informuje, że nieprzydatnych urządzeń elektrycznych czy elektronicznych nie można wyrzucać razem z odpadami gospodarczymi.

Właściwe działanie w wypadku konieczności utylizacji urządzeń czy podzespołów lub ich recyklingu polega na oddaniu urządzenia do punktu zbiórki, w którym zostanie ono bezpłatnie przyjęte. W niektórych krajach produkt można oddać podczas zakupu nowego urządzenia.

Prawidłowa utylizacja urządzenia daje możliwość zachowania naturalnych zasobów Ziemi na dłużej i zapobiega degradacji środowiska naturalnego. Informacje o punktach zbiórki urządzeń wydają właściwe władze lokalne.

Nieprawidłowa utylizacja odpadów zagrożona jest karami przewidzianymi prawem obowiązującym na danym terenie.



Dział Obsługi Klienta

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od poniedziałku do piątku w godz. 9.00-17.00

Producent zastrzega sobie możliwość wprowadzenia zmian w specyfikację produktu bez uprzedzenia.

Strona główna www.manta.com.pl

Strona wsparcia technicznego www.manta.info.pl



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