

CINEMA HQ 2.0

HD MULTIMEDIA PLAYER & DVB-T TUNER IN ONE

MT4160

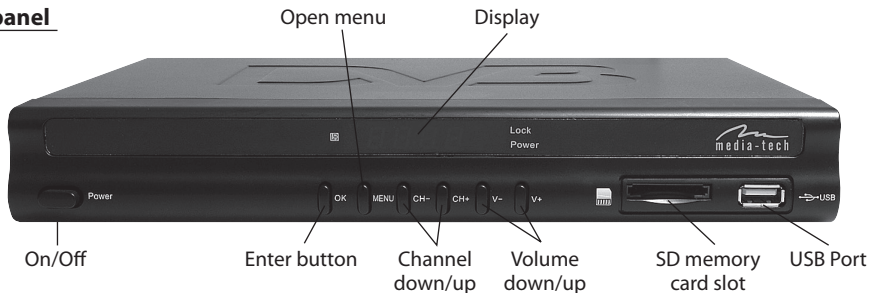


User Manual

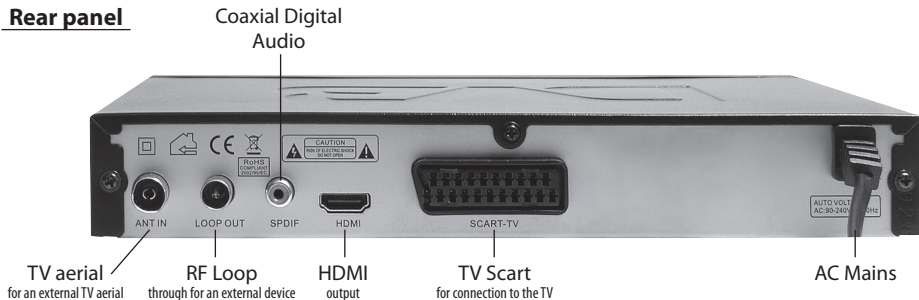
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Introduction

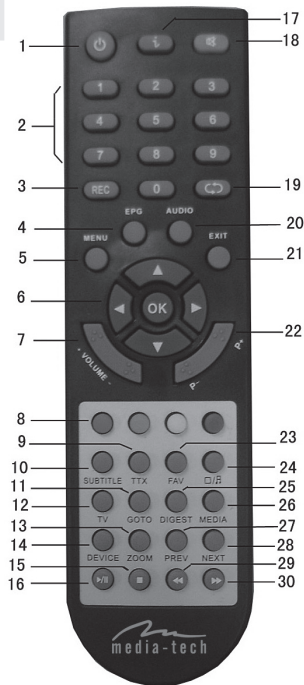
Front panel



Rear panel



Remote control



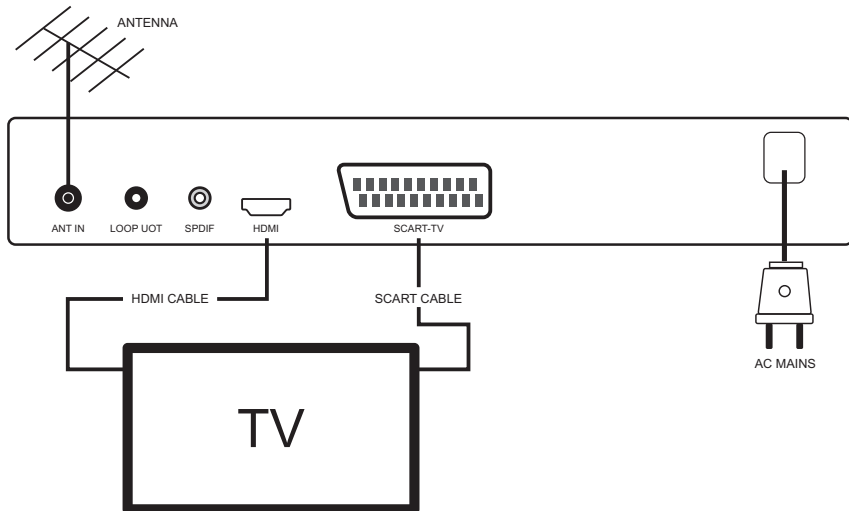
1. STANDBY On/Off
2. Number Key pad
3. RECORD
4. EPG (Electronic Programme Guide)
5. MENU
6. Navigation keys (left, right, up, down)
7. VOL- (Volume Down) / VOL+ (Volume Up)
8. RED/GREEN/YELLOW/BLUE – interactive buttons / sub-menu / Teletext Navigation
9. TTX (Teletext)
10. SUBTITLE
11. GOTO (goto desired mark when playing)
12. TV (enter TV menu)
13. ZOOM (set zoom in full-screen display)
14. DEVICE (access plugged devices)
15. STOP (stop program or movie playing)
16. PLAY/PAUSE (play movie or enable/disable timeshift)
17. INFO (display program information)
18. MUTE (enable/disable mute)
19. RECALL (return to previous menu)
20. AUDIO (audio mode operation)
21. EXIT (exit to full-screen display)
22. P+/P- (next/previous channel)
23. FAV (show favorite channel list)
24. TV/RADIO (switch between TV and Radio mode)
25. DIGEST (channel preview)
26. MEDIA (media operation)
27. PREV (previous chapter)
28. NEXT (next chapter)
29. FR (Fast rewind)
30. FF (fast forward)

Hardware configuration

Connecting tuner to a TV

Connect tuner to your TV with SCART, HDMI.

Note: Use only one type of connection!



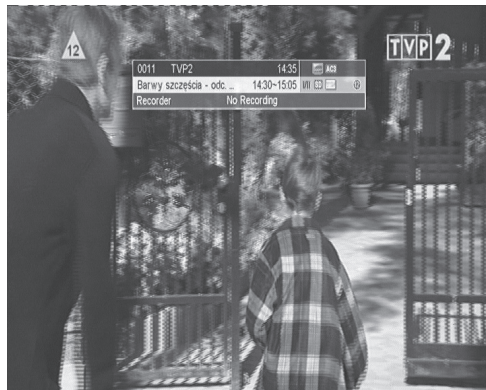
Software Configuration

Startup Menu

If you first time turn on tuner there will be shown "Init Install" menu. Then with navigation keys setup major options: OSD LANGUAGE, COUNTRY, TIME ZONE, LCN (select LCN ON if your antenna requires power supply), then select START SEARCH and press OK to enable channel autoscanning procedure.



Wait until scanning is finished. Device now will automatically show first channel from the list. Now tuner is ready to work.



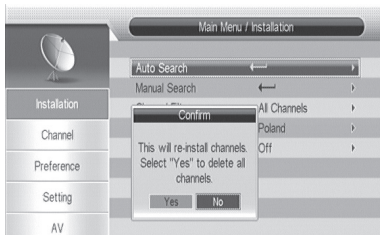
Installation

1. Press MENU button on the remote.
2. With UP/DOWN keys choose „Installation” menu, press RIGHT to accept.
3. Use UP/DOWN to select proper submenu and press OK.
4. Press EXIT to leave menu.



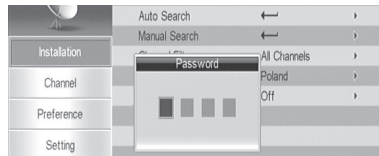
Auto Channel Scanning (AutoSearch)

1. Select „Auto Search” option and press OK.
2. Using navigation keys to choose “Yes” option and press OK to confirm.



Manual Channel Scanning

1. Choose „Manual Search” menu and press OK
2. Enter default password “0000” and press OK.



3. Select “Channel No.” to choose desired channel number, next select “Frequency” – use key pad buttons to enter desired value. Next select “Bandwidth” and then select “Start Search” and press OK to start manual search.



Channel filter

Choose „Channel Filter” to scan for all channels or only for FTA channels.



Country

Use navigation keys to select country where you are receiving DVB-T signal.

Watching TV

Changing channels

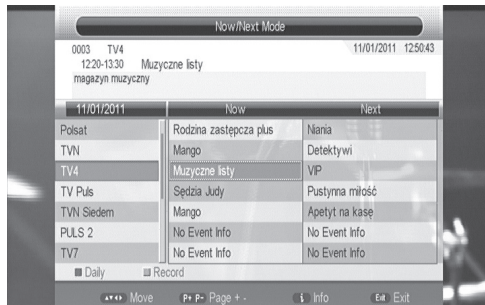
You can select the channel you wish to watch in 3 ways:

1. By pressing CH- / CH+ buttons on remote.
2. Enter channel number manually using numeric keys on remote.

3. Choose channel from channel list on the menu. When in Full-screen mode press OK button, channel list will pop up. Use LEFT/RIGHT navigation keys to switch channel list and then use UP/DOWN navigation keys to select channel and then press OK again to confirm.

Using Electronic Program Guide (EPG)

1. Press EPG button on remote.
2. Use UP/DOWN keys to explore list of available channels. Use LEFT/RIGHT keys to navigate program list.
3. Press GREEN button to start recording selected program, when prompted choose “Yes” to confirm .
4. Press RED button to switch list between “daily”, “weekly”, “now/next” mode.



5. Press INFO button to extend program description.
Press again to close info window.



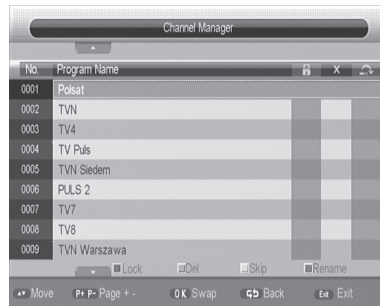
Note! EPG information is available only for channels that are broadcasted with EPG feature. Content and available range of information may be different for particular channels.

Note! Record option activated from EPG level is available for current programs, for others you can set "reminder" – when selected program begins a message window will pop-up.

6. Press EXIT button to close EPG window.

Channel Manager

1. Press MENU button on remote to enter main menu.
2. Use UP/DOWN keys to highlight „Channel Manager” option, next press RIGHT button to continue



3. Use UP/DOWN keys to select an item and press OK. Now you can move up or down selected channel on the list. Press OK again to put deselect channel.

4. You can lock selected channel pressing RED button. Enter password (default password is "0000") and.
5. You can delete selected channel, press GREEN button. When exiting menu confirmation message will appear – select YES and press OK.
6. You can tag selected channel to be skipped when changing channels, press YELLOW button.
7. You can rename selected channel, press BLUE button.
8. Press EXIT to leave menu.

Favorite List

1. Press MENU button on remote to enter main menu.
2. Use UP/DOWN keys to highlight „Channel – Favorite List” option, next press RIGHT button to continue

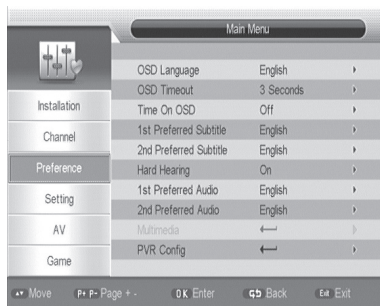


3. Use RED, GREEN, YELLOW and BLUE button to assign selected channels into four different favorite channels list. Press EXIT when finished.

Preference

Properties will allow you to set general preferences.

1. Press MENU button on remote to enter main menu.
2. Use UP/DOWN keys to select „Preference” menu, press RIGHT to continue.
3. Use UP/DOWN keys to select submenu and press OK.
4. To exit menu press EXIT button.



OSD Language

This option allows to change the on-screen display lan-

guage menu. Use UP/DOWN button to select language and then press OK to confirm.



OSD Timeout

Select duration of displaying OSD messages (2-6 seconds).



Time On OSD

Switch "On" option if you want to activate constant display of actual time in the right corner. To disable this function select "Off".



1st Preferred Subtitle

Select first preferred subtitle (function dependent on broadcasted program).



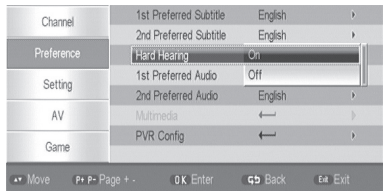
2nd Preferred Subtitle

Select second preferred subtitle (function dependent on broadcasted program).



Hard Hearing

To enable this function for hard hearing watchers select „On“. To disable select „Off“.



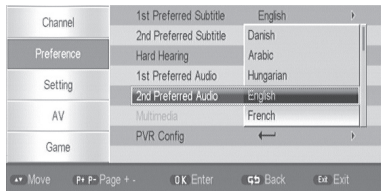
1st Preferred Audio

Select first preferred audio track (function dependent on broadcasted program).



2nd Preferred Audio

Select second preferred audio track (function dependent on broadcasted program).



Multimedia

Multimedia settings are available only when USB mass storage device is connected (pendrive or USB HDD).



Movie Slide Show

You can choose between following options: play all movie files in selected directory repeatedly, repeat once, or do not repeat – repeat OFF.



Music Slide Show

You can choose between following options: play all music files in selected directory repeatedly, repeat once, or do not repeat – repeat OFF.

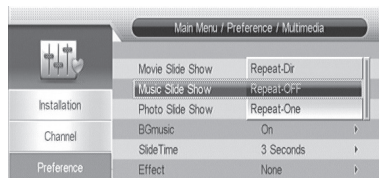
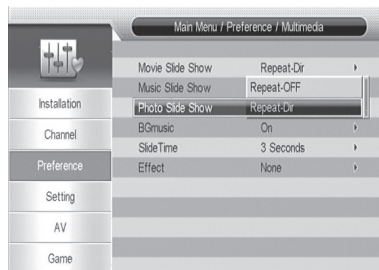


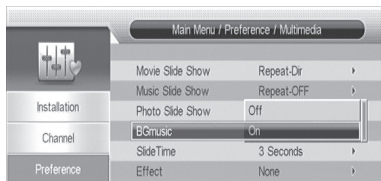
Photo Slide Show

You can choose between following options: show all images in selected directory repeatedly (Repeat-Dir) or do not repeat (Repeat-OFF).



BGMusic

You can turn ON or OFF music play during images slideshow.



SlideTime

You can choose duration between slides in slideshow mode (3-15sec).



Effect

You can set transformation effect between slides in slideshow mode.



PVR Config

In preference menu select PVR Config and press OK. Now you can modify settings regarding timeshift function and recording programs.

Note! To access these settings you must connect USB mass storage first.



PVR File Format

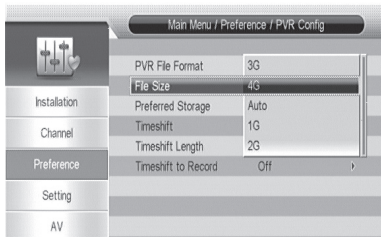
TS: recording with subtitles, teletext and EPG (video format supported only by MT4160)

PS: recording in MPEG2 file format (function available for programs broadcasted in MPEG2)



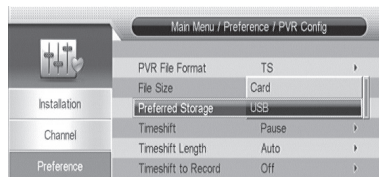
File Size

Select max volume size when recording. Recorded programs will be split into volumes.



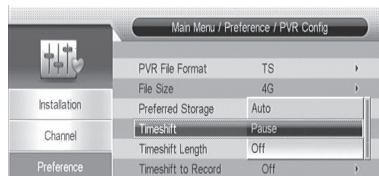
Preferred Storage

Select preferred storage device recording files and timeshift temporary files.



Timeshift

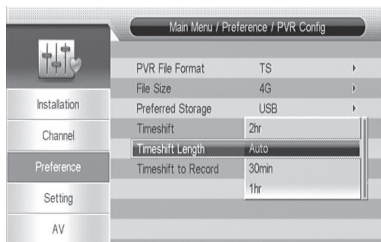
You can activate timeshift function to pause on-line program and watch from the beginning of activating it. Option „Auto“ – five seconds after switching channel timeshift will activate automatically. Option „Pause“ – to activate timeshift press PLAY/PAUSE button. Option „Off“ – timeshift function is disabled.



Note! Timeshift function requires at least 4GB of free space on preferred storage device.

Timeshift Length

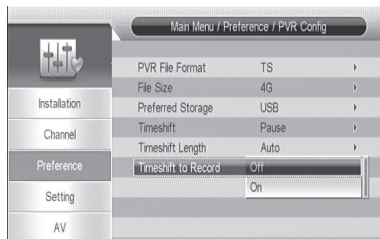
You can select length of timeshift (30 min -2 hours) or leave option „auto” – timeshift will record program until free space on preferred storage device ends.



Timeshift to Record

You can select option „On” – when you press REC button program will be recorded from timeshift activation moment. Option „Off” – temporary timeshift files will not be saved and when you press REC button - recording will start from moment when REC button was pressed.

Note! When “Timeshift Length” is set to “auto” and “Timeshift to Record” is set to “On” temporary timeshift files will not be automatically deleted. User must manually delete these files to free up space for another recordings. Go to PVR folder on preferred USB storage and delete files to free up more space if needed.



Setting

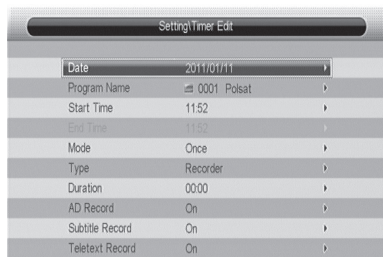


Timers

Select „Timers” and press OK to open timers window as shown.



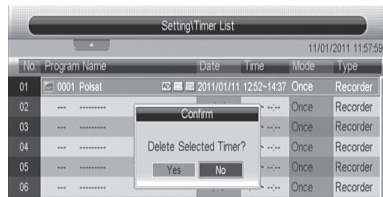
To add timer event select empty field on the list and press OK, window will appear as shown below:



- **Date:** enter date of timer event.
- **Program Name:** select from available channel list.
- **Start Time:** enter start time of recording, use naviga-

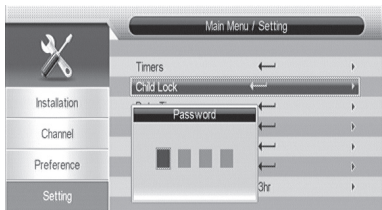
tion key to enter value and press OK to confirm.

- **Mode:** select between "Weekly", "Daily" or "Once".
- **Type:** select type of action on timer event start. Select between "Standby" – tuner will turn off, "On" – tuner will turn on, "Recorder" – tuner will turn on and start to record desired channel, "Channel" – tuner will switch to desired channel.
- **Duration:** enter duration, end time will be calculated automatically.
- **Subtitle Record:** select "On" to record subtitles, select "Off" to skip subtitles during recording.
- **Teletext Record:** select "On" to record teletext, select "Off" to skip teletext during recording.
- When all parameters are set press OK to add timer event to Timer List.
- To remove selected timer on the list press GREEN button, select "Yes" to confirm and press OK.
- To remove all timers on the list press RED button, select "Yes" to confirm and press OK.

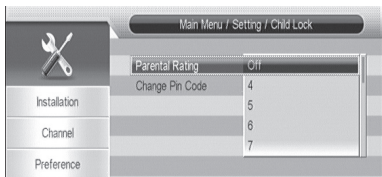


Child Lock

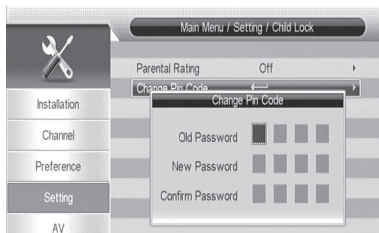
1. Select "Child Lock" in setting menu, enter default password "0000" when prompted.



2. Select "Parental rating" and enter age of child. Programs broadcasted with child lock will be blocked.



3. Select "Change Pin Code" if you want to change default password "0000". In field "Old Password" enter default or previous password (if you have change it once at least) and enter new password in the fields "New Password" and "Confirm Password".



Factory Reset

If you want to recover tuner to manufacture setting select "Factory Reset" and enter password when prompted.



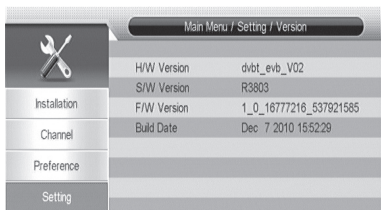
Upgrade

Connect USB mass storage device with appropriate firmware file in root folder. Select "Upgrade" in setting menu and press OK. Enter password when prompted. Locate firmware file and press OK.

Note! Unsuccessful firmware upgrade can damage your tuner.

Version

Select "Version" in setting menu to show information about firmware and software version.



Auto Standby

Tuner can automatically turn off when no input is done by user. Select between 1-3 hour or disable this function – set option to "Off".



AV menu

Here you can adjust all parameters regarding video and audio output. Adjust Contrast, Brightness, Saturation, HUE. If you connected Hi-Fi amplifier to SPDIF you can select PCM, Bitstream or Mute – to disable this output. Select aspect ratio appropriate to your TV set. For old-fashioned 4:3 TV set choose "4:3 LetterBox" – programs broadcasted in 16:9 would have black strap at top and bottom of TV screen. "4:3 PanScan" – programs broadcasted in 16:9 would have cut left and right side to fit TV screen.

If you have modern 16:9 LCD TV set choose "16:9 LetterBox" – then programs broadcasted in 16:9 would stretch image to fit TV screen. Choose "16:9 PanScan" – then programs broadcasted in 4:3 will have black strap on the right and left side".

If your tuner is connected via SCART cable you can select video format output: CVBS, RGB, YUV.

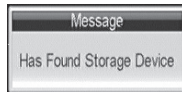
If your tuner is connected to TV set via HDMI cable you can select Video Resolution as shown.

For HDMI connection you can also choose HDMI Color Space and HDMI Deep Color.



Using USB storage

1. Plug USB mass storage device (pendrive or USB HDD) to USB port of MT4160. When device is successfully installed message will pop-up.
2. Press DEVICE button to open active device list. Here you can set partition for recording (press RED button on selected item), format partition in FAT32 (press GREEN button), format partition in NTFS (press YELLOW button) or show information (press BLUE button).



GAME

In this menu you can select game, press OK to enter game.



Note! Before recording programs or using timeshift function it is necessary to set partition for that purpose.

Note! It is recommended to use partition with speed level marked as green.

Removing USB storage

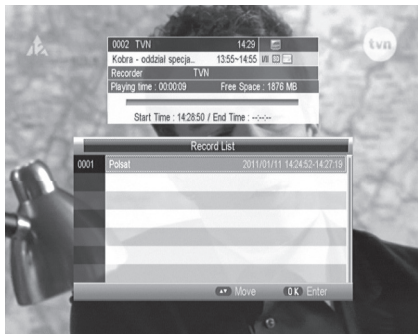
To safely remove USB mass storage/ flashcard it is recommended to turn off the tuner. If you unplug device when recording program or timeshift mode in progress you can damage file system – then you will have to format device before using it again.

Recording



1. Press REC button on remote to start recording.
2. Red dot in the upper left corner will flash few times, program is recorded on preferred USB storage.
3. To stop recording press STOP button.
4. Choose "Yes" and press OK to confirm.

When recording is in progress you can switch to watch another channel. You can also press INFO button to see previously recorded programs, you can play them while record is still in progress.



Note! Recording and watching another program is available for channels broadcasted at the same frequency.

Using timeshift function

When watching TV press PLAY/PAUSE button to activate timeshift function. Real time program will paused and recorded to temporary file. To resume watching press PLAY/PAUSE button again. You can use FR or FF button to navigate between buffered program. To exit timeshift mode and go back to real time watching press STOP button.



Exploring Media

Press MEDIA button to open media explorer window as shown.

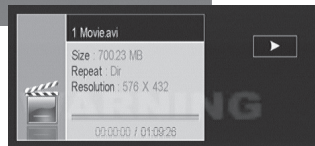


- To play music, preview images or play movies and recorded programs select appropriate tab first.
- Use LEFT/RIGHT button to navigate between MOVIE, MUSIC, PHOTO, Native32GAMES, RECORD MANAGER, DISK MANAGER, EBOOK.
- Next press DOWN button to navigate on folder list. To open folder press RIGHT button on selected item, to go one level up press LEFT button, to open or play selected file press OK button.
- To close Media Explorer and go back to TV mode press MEDIA button.

Note! File list is showing files according to selected media type, i.e. in MOVIE tab only movie files are shown on the list.

Playing Movies

Go to Media Explorer and select MOVIE tab. Use navigation button to select desired movie file and press OK. Movie will be played in full screen mode.



You can jump to desired time in movie, press GOTO button. You can rewind or fast forward movie – use FR and FF button accordingly. For movies with subtitles you can show subtitles or hide them – press SUBTITLE button and select desired language.

Note! For Divx/XviD files subtitle file must have identical prefix name to be recognized.

Note! Rewind/Fast Forward/GOTO function may not work for particular movie files due to difference in codec versions.

Playing Music

Go to Media Explorer and select MUSIC tab. Use navigation button to select desired music file and press OK. During playback press GOTO button to activate/deactivate shuffle mode, you can also press DIGEST button once to switch between repeat one/repeat directory/repeat off mode.



Note! Do not place photo files inside music folder – tuner will play music from folders with audio files exclusively.

Photo Slideshow

Go to Media Explorer and select PHOTO tab. Use navigation button to select desired photo file and press OK. Slideshow will switch to full screen and begin from selected image. You can pause slideshow – press PLAY/PAUSE button. You can flip image horizontally – press

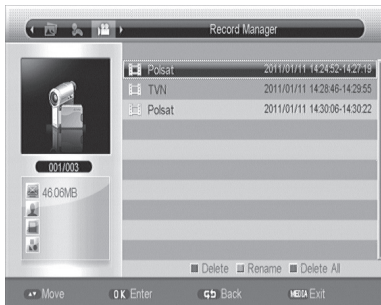


UP/DOWN button or vertically – press LEFT/RIGHT button. You can press DIGEST button to switch between repeat directory /repeat off mode.

Note! To play background music go to MUSIC tab and play music file, then go to PHOTO tab and start photo slideshow.

Record Manager

Go to Media Explorer and select RECORD MANAGER tab. Use navigation button to select recorded program press OK to watch it in full screen. You can delete selected file – press RED button and choose “Yes” to confirm. To rename file press GREEN button, to delete all files press BLUE button.



Note! Do not place photo files inside music folder – tuner will play music from folders with audio files exclusively.

Audio mode

Press AUDIO button to select desired audio mode.

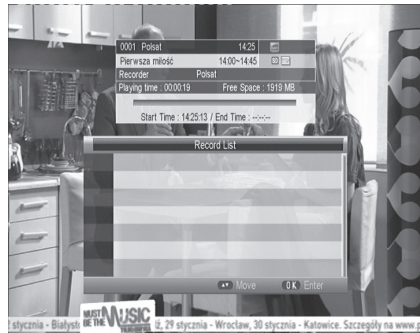
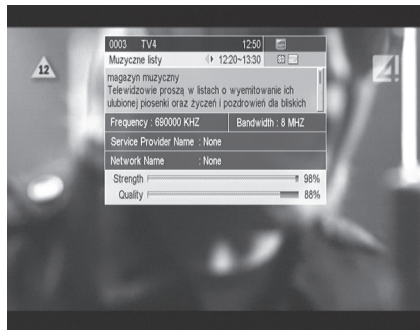


Note! AC3 sound depends on broadcasted program – if program is not broadcasted with AC3 sound output audio will be mute.

INFO button

Press INFO button once to show basic channel info, press again to show detailed info, press again to hide info.

When recording press INFO button once to show basic info, press again to show Record List – you can select any file from the list and play it while still record in progress.



Trouble	Cause	Solution
STANDBY indicator did not light	Power cord is not plugged in Burnout fuse	Check the power cord Contact with service
Out of signal	Antenna is not connected to receiver Incorrect direction of antenna or antenna damaged	Check aerial cord Change aerial direction
No sound or video	Video source option in TV is wrong	Choose SCART/AV video source option on TV
Unclear subtitles	Poor signal level	Change aerial direction Reset channel list
Remote control doesn't work	Receiver is turned off Incorrect remote direction IR receiver is not visible by IR remote Batteries are discharged or incorrectly installed	Turn on receiver Correct direction of remote Remove obstacle Change or correct batteries installation
Lost channel lock password		Prescan all channels again
Lost menu lock password		Contact with Media-Tech helpdesk
Out of signal after installing device in other place	Antenna with longer cord need more power	Use external power supply for antenna

Technical Specification

Tuner	RF Input (IEC-TYPE, IEC 169-2, female) RF Output RF (IEC-TYPE, IEC 169-2, male) Frequency range: 174~230MHz (VHF) 470~862MHz (UHF) Signal Level: -15~ -70dbm
Decoder: Video Decoder Audio Decoder Transfer Speed Aspect Ratio Audio Formats Resolution Movie file Photo file Music file Subtitle format	MPEG-1/MPEG-2 MP@ML/MPEG-4 AVC/H.264 HP@L4.1 MPEG-1 Layer 1.2/PCM/HE-AAC v.1.0/DD (AC3)/DD+ (E-AC3)/DTS Max 15 Mbit/s 4:3/16:9/auto HDMI: 1080p/1080i/720p/576p/576i MPEG Layer I & II, 32/44.1/48 kHz MKV, AVI, FLV, MP4, M2TS, MPG, MOV, WMV, DAT BMP, GIF, JPG, PNG, TIF MP3 (with LRC), FLAC, WAV, WMA, AC3, EAC3 (DD+), DTS txt (mDVD), sub, smi, ssa, srt, idx+sub
Connectors: Antenna Video Audio Data Card Reader	RF output x 1, RF input x 1 HDMI, SCART (EURO) Coaxial Digital Audio USB SD/SDHC
Power: Input Voltage Power Consumption	AC 220~240V, 50/60Hz Max 8W; in standby mode <1W

Note! Design and equipment specifications are subject to change without notice.