# **Δ**ειτεχαιαταυ

Integrated networking solutions

# Mediacenter NV-501 NV-501-Wac

Operation manual Firmware version 1.0.29

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# **1 INTRODUCTUION**

# 2 Annotation

This operation manual sets out the purpose, technical characteristics, safety compliances, recommendations for installation, configuration and usage of digital television high-resolution set-top-box, NV-501 and NV-501-Wac (hereinafter referred to as the mediacenter).

Before working with mediacenter it is strongly recommended to read the following Manual.

### **3 SYMBOLS**

Symbol	Description
Bold font face	Notes, warnings, section headings, titles and table titles are written in bold.
Calibri Italic	Important information is written in Calibri Italic.
<key></key>	Keyboard keys are written in upper-case and enclosed in angle brackets.

#### NOTES AND WARNINGS



Notes contain important information, tips, or recommendations on device operation and setup.



Warnings inform users about hazardous conditions which may cause injuries or device damage and may lead to the device malfunctioning or data loss.

# **4 DESCRIPTION**

# 5 Purpose

The mediacenter combines the functionality of a high-resolution set-top box (Set-Top-box) and a home HD media player. The network model of the device and a wide range of interfaces allow easy and convenient access to IP-television (IPTV) and local media resources.

Dual-core media processor Realtek RTD1195 media player supports a wide range of audio and video formats. Model NV-501-Wac has a built-in dual-band Wi-Fi 802.11ac module, which provides high-speed connection over a wireless network.

The mediacenter has a large set of built-in functions: IPTV broadcasting with additional services support, playback of video and audio data, viewing images from various information carriers, Internet resources access using an integrated web browser and Internet applications.

The set of built-in functions of the media center can be extended by operator services (video collection, operator music access, etc.).

# 6 Functions:

- High Definition IP TV (Full HD IPTV)
- Home FullHD Media Player

The mediacenter is a universal media player that allows you to play media content:

- via local wireless / wired network, for example, from a PC or other devices connected to a local network;
- from external storage (external hard drive, USB flash-drive, SD-card).

The player has an intuitive interface with copying, deleting and moving files support.

• Internet applications

The mediacenter functionality can be expanded by application installing from both the local media and the application store or GooglePlay.

Web browser

You are able to connect to the Internet and view any sites on your home TV screen with the integrated web browser and the ability to connect a wireless keyboard and mouse.

- Multimedia features
  - Supports an extended set of codecs and containers, including: M2TS, MKV, MPEG-4.10/ H.264, HEVC=H.265;
  - Multimedia streams playback with a bitrate up to 50 Mbps;
  - HD Audio playback: Dolby Digital AC-3, DTS;
  - Support downmix to stereo;
  - Photo viewing.
- Network features:
  - Protocol support: IPv4, HTTP, DNS, DHCP, NTP, IGMPv3 (multicast), IGMPv2, ICMP, UDP, RTSP;
  - Wireless network Wi-Fi 802.11b / g / n / ac <sup>1</sup> connection;
  - Remote OS update via HTTP;

- Installing applications over the network;
- Samba client;
- DLNA client.
- Wide range of switching capabilities:
  - Operator's network connection: via Ethernet cable, via Wi-Fi<sup>1</sup>;
  - A / V equipment connection: HDMI1.4;
  - External storage devices connection: USB2.0, microSD;
  - USB keyboard, USB mouse (wired / wireless) connection.



Fig. 1 - Application diagram

<sup>&</sup>lt;sup>1</sup>Wi-Fi is implemented in NV-501-Wac only

# 7 Main Specifications

Table 1 shows main specifications of the device.

Table 1 - Main specifications

#### **General parameters**

CPU	Realtek RTD1195	
RAM DDR3 (RAM)	1 GB	
ROMeMMC (system memory)	4 GB	
OS	Android 4.4	
Protocols	IPv4, HTTP, DNS, DHCP, IGMP V2 / V3, ICMP, RTP, RTSP	
Media Containers	MPEG-4.10 / H.264, MPEG-2 TS, MPEG-2 PS, AVI, FLV, MOV, MP3, WAV, MP4, MKV, OGG, M2TS, MTS	
Video codecs	MPEG1, MPEG2 (HD), MPEG4 (HD), XviD, DivX, H.264, WMV9, AVCHD, Vc1, h.264	
Audio codecs	Mp3, MPEG Audio, AAC, Ac3, DTS, FLAC	
Image file format	JPG, JPEG, GIF, PNG	
Subtitle format	SRT, SMI, SSA, ASS	
Playlist file formats	M3U <sup>1</sup> , XSPF	
Web browser	HTML 3.2, HTML 4.01, HTTP 1.1 / 1.0 RFC2068, DHTML, JavaScript V1.1 / 1.2 / 1.5, Unicode UTF-8, CSS3 support	
Display modes	HD 1080p / I, HD 720p	
File systems	NTFS, FAT32, EXT2, EXT3	
Ethernet interface parameters		
Number of interface	1	
Electrical connector RJ-45		
Data rate, Mbps   auto detection, 10/100/1000, duplex/half duplex		
Standards support	10/100/1000Base-T	
Wireless interface parameters <sup>2</sup>		
Standards	IEEE 802.11b/g/n/ac	
Frequency range, MHz	2.4, 5 GHz	
Security	64/128/152-bit WEP data encryption; WEP, TKIP and AES	
Wi-Fi Antennas <sup>2</sup>	internal	
Audio / video interface parameters		
Audio/video output	HDMI 1v4	
Other interfaces	•	
USB	2xUSB 2.0	
MicroSD reader	1	
Remote IR receiver interface	1	
Configuration/Control		
Local control	using the built-in graphical interface	
Remote control	via SSH, TR-069	

### Physical specifications and ambient conditions

Power voltage	5.2V DC
Power consumption	up to 12W

<sup>1</sup> Current software version supports this format for Internet radio only. <sup>2</sup>For NV-501-Wac only

USB port load capacity	up to 0.5A
Permissible total load of two USB ports	up to 1.0A
Operation temperature range	from +5 to +40°C
Relative humidity	up to 80%
Dimensions	100x89x18 mm
Weight	up to 0.15 kg.

# 8 Design

This section describes the mediacenter design: rear, front and side device panels, connectors description, LED indicators and controls are shown.

### **9** Front panel of the device

The front panel of device is shown in Fig. 2.



Fig.2 - Appearance of the front panel of the device

LEDs and controls located on the front panel of the device are listed in Table 2.

Table 2 - Description of LEDs and controls located on the front panel

Front panel elements		Description
1		Infrared receiver of the signal from the remote control.
2	\$	Device power and activity state indicator.

### 10 Rear panel of the device

The rear panel of device is shown in Fig. 3.



Fig. 3 - Appearance of the rear panel of the device

Connectors and controls located on the rear panel of the device are listed in Table 3.

Table 3 – Description of connectors and controls located on the rear panel

Rear panel elements		Description
1	ON/OFF	ON/OFF switch.
2	5V	Power supply connector.
3	HDMI	HDMI connector for high quality digital video and audio transmission to a TV.
4	AV OUT	AV OUT connector is designed to transmit analog video and audio to the speaker system or TV.
5	LAN 10/100/1000	Ethernet LAN interface RJ-45 connector for internet service provider network connection.

8	EL.	TEX

Remote IR receiver connector.

# $11\,$ Side panel of the device

6

IR



Fig. 4 - Appearance of the side panel of the device

Table 4 - Description of	LEDs and control	is located on the	side panel

1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Two USB 2.0 connectors for connecting peripheral devices to the mediacenter: external hard drives, flash drives, input devices (keyboard, mouse). You can connect external devices such as USB-Hub to increase the number of simultaneously connected USB devices.
2	MicroSD	MicroSD Card Reader

### 12 'F' Function Button

'F' function button is located on bottom panel of the case. It is used for loading the service mode for firmware updating or restoring the factory software.

Warning! Careless handling of this function can lead to mediacenter malfunctions. Before using the F button, read your device's local firmware update guide.

# 13 Light indication

LEDs located on the front panel indicate the current state of the device.

5, 6 lists possible states of the LEDs.

Table 5 - Device status LED indication

Indicator	Indicator State	Device state		
	Solid green	The device is turned on and ready to go.		
	Solid orange	The device is turned on, device configura- tion is loading or applying		
57	Solid red	The device is plugged in but is in standby mode.		
	Off	The device is unplugged or defective		

Ethernet interface state is shown by 10/100/1000 socket built-in LED indicators.



Figure5 - RJ-45 Connector Appearance

Table 6 - Light indication of Ethernet 10/100/1000 interfaces

ACT indicator light	LINK indicator light	Ethernet interface state
Disabled	Disabled	The port is disabled or connection is not es- tablished
Disabled	Flashes	Data transfer is carried out in 100BASE-T mode.
Flashes	Disabled	Data transfer is carried out in 10BASE-T mode.
Flashes	Flashes	Data transfer is carried out in 1000BASE-T mode.

# 14 Remote control buttons assignment (RC)

This section describes remote control buttons assignment. Universal remote control for mediacenter and TV is shown on Fig. 6;



# 15 Universal remote control for mediacenter and TV



Table 7 describes the buttons and indicators of the universal remote control.

#### Table 7 - Remote control buttons assignment

Buttons		Target			
ON/OFF		Power on/standby. Turns the set-top box on or puts it on standby.			
MUTE		Mute/unmute.			
Exit	-	Quit the application. The function is available in Stalker			
Arrow		Enable/disable the mouse cursor. Press this button to switch to the mouse cursor control mode and back.			
Numeric keypad		Used to navigate through the channels, digits entering.			
AUDIO		Audio track switching.			
SUB		Subtitle switching.			
Volume		Volume control.			
сн		Sequential channel switching. In ZOOM mode, adjust the image size.			
HOME		Return to the main menu.			
Navigation buttons		Buttons 'up', 'down', 'right', 'left' are used to select menu items. When playing video and music, the "right", "left" buttons are used to move to the required episode. OK button is used to select or confirm an option.			
MENU		Used in the Explorer application to bring up the context menu.			
RETURN		Return to level back.			
Green button		The button functionality is set depending on the application.			
Yellow button		The button functionality is set depending on the application.			
Blue button		The button functionality is set depending on the application.			
Playback control :		Playback control buttons:			
PLAY		Pause/continue playback;			
REW		rewind;			
FWD		fast forward;			
гоом		Enables ZOOM (zoom in/out, move the window).			

INFO	i	'Help' menu.
DEL		Deletes characters when typing.
F		The button functionality is set depending on the menu section.

The universal remote control works simultaneously in two modes:

- TV control (TV unit);
- mediacenter control.

To control the TV, only the buttons of the TV unit are used, mediacenter control using these buttons is not available.



To control the TV, the buttons of the TV unit must be assigned to the functions of the buttons on the TV remote, a description of the programming procedure for the remote is given in Appendix B.

# 16 Delivery Package

Standard delivery package includes:

- Mediacenter;
- 220/5V power adapter;
- Infrared remote control;
- Batteries for remote control 2 pcs;
- HDMI cable (optional);
- Category 5e Ethernet cable (optional);
- Remote IR receiver (optional);
- Installation and connection guide.

# 17 INSTALLATION PROCEDURE

This section describes the safety measures, installation procedure and process of turning the device on.

### 18 Safety measures

- 1. Do not set an IP set-top box near heat sources and in rooms with temperatures below 5°C or above 40°C.
- 2. Do not use the device in rooms with high humidity. Do not expose the device to smoke, dust, water, mechanical vibrations or shock.
- 3. Do not open the device. There are no user-serviceable parts inside.



The device has horizontal ventilation. There are ventilation holes on the side panels of the device. Do not block the ventilation holes with foreign objects to avoid device components overheating and disruption of its operation.

## **19 Mediacenter Installation**

- 1. Check the device for visible mechanical damage before installing and turning it on. In case of any damage, stop the installation, fill in a corresponding document and contact your supplier.
- 4. If the device was exposed to low temperatures for a long time before installation, leave it for 2 hours at ambient temperature prior to operation. If the device was exposed to high humidity for a long time, leave it for at least 12 hours in normal conditions prior to turning it on.
- 5. The device is installing in a horizontal position, following the safety instructions.

### 20 Mediacenter startup sequence

#### STEP 1 Connecting the mediacenter to the TV



Connect the HDMI cable to the mediacenter connector and to TV HDMI connector, Figure 7.

Fig. 7 - Connecting the mediacenter to the TV

#### STEP 2 Connecting the mediacenter to the provider's network

You will need an Ethernet network cable provided by your ISP.

Select the connection type of the mediacenter to the provider's network:

- 1 Connection to the provider's network via Ethernet cable.
  - a) Connection to the provider's network without home router usage.

Connect the network Ethernet cable from your ISP to the mediacenter LAN 10/100 connector, Fig. 8.

The media center will receive the network settings automatically when it is turned on. If necessary, the network settings can be changed in the menu of the media center, see Section 41 The 'Ethernet' section .



Fig. 8- Connection to the provider's network without home router usage.

b) Connecting to the provider's network using a home router, switch, hub.

Home router usage allows you to create a local network. When choosing this connection method, the media center can play media content from the home network.

Connect the Ethernet network cable to the LAN 10/100/1000 connectors of your media center and router, Fig. 9.

Connect the network Ethernet cable from your ISP to the router WAN connector.



The WAN connector name may be different, in this case refer to your router's documentation.



The network settings can be changed in the menu of the media center, see Section 41The 'Ethernet' section.



Fig. 9 - Connecting to the provider's network using a router

2 Connection to the provider's network via Wi-Fi (local wireless network creation)<sup>1</sup>.

For this connection method you need a home Wi-Fi router. Wi-Fi router usage allows you to create a local network. When choosing this connection method, the media center can play media content from the home network.

Enable Wi-Fi on your router (for more information, see your router documentation).

Next, you need to connect the media center to your router Wi-Fi network. For this, see section.40 The 'Wi-Fi' Section .



Figure 10 - Connecting to the provider's network using Wi-Fi router

STEP 3 Connecting the mediacenter to the power supply

<sup>&</sup>lt;sup>1</sup> For NV-501-Wac only

Connect the power adapter cable to the 5V device power connector. Next, connect the adapter to the power supply, Fig. 11.



Fig. 11 - Mediacenter connection diagram

#### STEP 4 Turning the mediacenter on

After connecting the mediacenter to the power supply, wait until the device is fully loaded (this may take about a minute).

Then switch the TV to the signal source to which the media center is connected (for more information, see the documentation for your TV).





Fig. 12- Mediacenter screensavers through console launching



When the mediacenter turning first time on, a firmware update may begin. Please don't impede this. As soon as the mediacenter firmware is updated, you will be able to fully enjoy all its features.

# 21 MEDIACENTER CONTROL.

# 22 Interface elements and general control principles

### 23 General principles

Mediacenter is controlled by a graphical user interface. The mediacenter user interface provides complete device functions control. It allows you to access the provider menu, various applications and mediacenter settings.

The main menu consists of sections, which are presented in the graphic images form. When selecting a section, its icon is highlighted. Depending on the tasks performed, each section contains its own navigation and control subsystem. A detailed description of the main sections is given below.

Mediacenter can be controlled using the remote control (included in the delivery), keyboard, mouse (set by the user if necessary). This section describes the general device control principles.

The Table 8 shows assignment of the keyboard keys and remote control buttons.

Remote control button		Keyboard key	Target	
		HOME		return to the main menu
	Ð	RETURN	← Backspace	return to level back
		left right	$\leftarrow \rightarrow$	scroll through the menu to the left, right; tabs left, right
8	8	up down	↑ ↓	scroll through the menu up, down; value selecting in the drop-down list
ОК	ОК	ОК	ENTER	menu item selection; selection confirmation

Table 8 - General principles of media center management

### 24 General principles of typing

To enter numbers, letters and symbols, use the remote control or the keyboard.

Text entering using the remote control is done through the virtual keyboard.

q	<b>w</b> 2	e	r	t	y °	u 7	i	9	p	•2
а	s	d	f	g	h	j	k			Done
¢	z	x	с	v	b	n	m	!	?	¢
?123		/								٢

- To navigate through the virtual keyboard, use the buttons 'down', 'up', 'left', 'right'.
- "OK" button is used to press the button of the virtual keyboard .
- The "DEL" button is used to delete characters.
- To close the virtual keyboard without saving changes press '**RETURN**' button.

### A eltex

Keyboard settings are configuring in the 'Settings'->'Language and input' menu. For detailed description see Section 48.

### 25 Video and music management and image viewing

#### Video and music management

This section describes the remote control usage principles when playing video, music

- 1 Playback control:
  - to start playback, press the 'PAUSE' or 'OK button;
  - to pause, press the **'PAUSE'** or **'OK'** button;
  - to stop playback and return to the main menu, press the **'RETURN'** button.
- 3 Go to spicified episode:
  - Use the 'left', 'right' or 'REW', 'FWD' buttons to choose required episode and press 'OK' button.
- 4 Sound adjustment:

For sound level adjustment use buttons:

- 'VOL' + increase the volume;
- 'VOL' - turn down the volume;
- 'MUTE' completely mute the sound.

К'		<b>FII</b>	<b>'PAUSE':</b> - pause; - start playback.	
in	ОК	ОК	<b>'OK'</b> : - selection confirmation; - pause; - start playback.	
	Ð	A	<b>'RETURN'</b> - playback stop and return to the level back.	
ns <b>K'</b>	*	× ×	<b>'FWD'</b> , <b>'REW'</b> buttons and navigation	
			back and forth to the required scene;	
	8	8	'ZOOM' - zoom in or out.	
	+ vol -	+	<b>'VOL'</b> - volume adjustment.	
	<b>r</b> ⁄	<b>1</b> /1	<b>'MUTE'</b> - turn the sound off/on	
	AUDIO	AUDIO	'AUDIO' - audio track selection.	
	SUBT	SUB	'SUBT' - select/disable subtitles.	

5 The audio track<sup>1</sup> changement.

To switch the audio track, press the 'AUDIO' button , use the 'up' and 'down' navigation buttons to select the required option, and press 'OK'.

6 Changing and turning subtitles off<sup>1</sup>.

To switch the subtitles, press the 'SUBT' button, use the 'up' and 'down' navigation buttons to select the required option, and press 'OK'.

7 Screen size changing:

To zoom the imge in or out, press the button to switch to the **'ZOOM'** mode. Use the navigation buttons to select the required display mode:

- Box image broadcasting without zooming;
- Full the image will be enlarged to fit the screen;
- Panscan the image will be stretched across the screen width.

To exit the 'ZOOM' mode, press the 'RETURN' button.

<sup>&</sup>lt;sup>1</sup>The function is not available during playback of audio content.

### Images viewing

This section describes the remote control usage principles when viewing images.

		navigation buttons <b>'left', 'right'</b> : - previous, next image; - in <b>'ZOOM'</b> mode, move the image left and right.
	8	navigation buttons ' <b>up', 'down'</b> - in ' <b>ZOOM'</b> mode, move the image up and down.
C	C	<b>'ROT'</b> - rotates the image.
		'PAUSE' - slideshow start/stop.
	Ð	'RETURN' - return to level back.
8	8	'ZOOM' - start/stop the ZOOM mode.
CH		<b>'CH'</b> - zoom in/out in <b>'ZOOM'</b> mode.

### 26 User interface main menu description

In the user interface main menu you able to select a section for further work.

Section selection is carried out:

- with remote control: the navigation buttons 'left', 'right' and confirm the selection of 'OK';
  - with the keyboard: arrow keys  $\leftarrow \rightarrow$ , to confirm press **<enter>**, Table 8;



To return to the main menu from any section of the user interface, press the 'HOME' button on the remote control.

The Fig. 13 shows the user interface main menu appearance. The Table 9 97 describes the main menu sections.



Fig. 13 - Main menu appearance

Table 97 - Main sections of the main menu description

Section	Description
	<b>The 'App Store'</b> Menu The menu contains various applications that can be installed and used in the mediacen- ter.
	'IPTV' application The application allows you to view IP-TV channels and TV programs provided by the In- ternet operator.
	<ul> <li>The 'File Manager" menu</li> <li>In the menu is carried out: <ul> <li>multimedia files selection and viewing from external hard drives, USB flash drives, MicroSD;</li> <li>multimedia files viewing from the local network;</li> <li>multimedia files viewing from a DLNA server.</li> </ul> </li> </ul>
	The 'Settings' menu

The device settings are performed in this menu.



Application composition and the main menu appearance may be different from the above. The composition is determined by the mediacenter firmware version and provider's network customization.

#### Indication

Visual indication of the provider's network connection current status is realised in the user interface, table 10108.

Table 108 – Visual indication of the provider's network connection current sta	tus
--	-----

Appearanc	Description
<u> </u>	Connection to the provider's network is performed via a wired ethernet interface.
	Connection to the provider's network is provided via Wi-Fi <sup>1</sup> .
•	Connection to the provider's network is provided via a VPN / PPPoE connection.

<sup>&</sup>lt;sup>1</sup>For NV-501-Wac only

# 27 Store

# 28 General Description



The 'Store' menu contains various applications that can be installed and used in the mediacenter.

To go to the 'Store' menu using the remote control, use the **'right'** or **'left'** navigation buttons to select 'Store' and confirm with the **'OK'** button.

To exit the 'Store' menu and return to the main menu, press the **'HOME'** button.

ПРИЛОЖЕНИЯ ЭЛТЕКС	СТОРОННИЕ ПРИЛОЖЕНИЯ	ПРОШИВКА	НАСТРОЙКИ
You Tube YouTube			
Filemanager			Установлено
ΙΡΤΥ			Установлено
<b>mediaplayer</b> Eltex Mediaplaye	r		Доступно обновление
exLauncher exLauncher			Доступно обновление



To navigate through the 'Store' app bookmarks, use the navigation buttons **'right'** and **'left'**. Use the **'up'** and **'down'** buttons to select an application. To confirm your choice, click the **'OK'** button.

The following table describes ELTEX applications:

Table 11 - ELTEX company applications description

Application	Description
You Tube	The 'YouTube' app allows you to view YouTube videos.
	The 'File Manager' application allows you to work with files and folders, as well as:
=	<ul> <li>select and view multimedia files from external hard drives, USB flash drives, MicroSD;</li> <li>view media files from a local network using SMB and DLNA protocols;</li> <li>view media files from a DLNA server.</li> </ul>



The 'IPTV' application allows you to view IP-TV channels and TV programs provided by the Internet operator.

### 29 Connection to the store

When you start the media center and enter the application store, if the firmware has factory settings, the default connection will be at the address *android-market.eltex.local*. To change this address:

- 1. Enter the 'Store' app.
- 6. In the 'Store' app, press and hold the 'F' button on the remote control.
- 7. A dialog box appears with enter your *PIN* code query:

Введите PIN			
L			
Отмена	Да		

Enter the *PIN* code, for example, **0000** (four zeros) and press **OK**. *The PIN* code may differ, depending on the software version and the provider customization.

8. In appeared dialog box select market.eltex-media.ru or enter another address, information about which can be obtained from your provider.

### 30 Application Management

#### Installation

To install the application in the system, select the application using the navigation buttons and press 'OK'. Press the 'Install' button in personal application menu.

YouTube TV		YouTube TV	
install Available version: 1.2.7:10207100	Official YouTube application - это ваши любимые видео на вашем Телевазора. К услугая пользоваталя: - Введите поисковый запрос в любом месте приложения. Найти видео или канала. - Отправить YouTube видео с вашето мобитыото устройства к телевазору. - Автомалические плейлисты - Посиотреть больше видео от того же канала, проеми рогитея то трупции видеозаписа? - резменидации, свои плейлисты. - Канал Вrowser - открыть для себя новые каналы YouTube.	installing Available version: 1.2.7:10207100	Official Vou'Tube application - это ваши любимые видео на вашем Телевизора. К услугая пользоваталя: - Ведите поисковый запрос в любом месте приложении. Найти видео или канала. - Отправить You'Tube видео с вашето мобильного устройства к телевизору. - Автоматические плейлистьа - Посиотреть больше видео от того же канала, промент у очлата струмоции видеозалиссй, валала, промент у очлата струмоции видеозалиссй, - Векомендации, саюн плейлисты. - Канал Browser - открыть для себя новые каналы You'Tube.

#### Removal

To remove the application from the system, select the application using the navigation buttons and press **'OK'**. Press the **'Remove'** button in personal application menu.



#### Update

If an update is available for the application, the application description will indicate 'Update Available'.

To install new application version, select the application using the navigation buttons and press 'OK'. Press the 'Update' button in personal application menu.

Radio		Radio	
Open	Даёт возможность слушать различные интернет радиостанции	Open	Даёт возможность слушать различные интернет радиостанции
Update		Constalling_	
Uninstall		Uninstall	
Available version: 1.2.9:129 Installed version: 1.2.7:127		Available version: 1.2.9:129 Installed version: 1.2.7:127	

You may also see a notification that an update is available:



To update the application, press 'Yes' button.

If you do not want to receive notifications for new applications, check the box 'Do not show this notice to update automatically' and click 'Yes'. You can cancel these settings in the 'Settings' section of the 'Store' menu.

### 31 Firmware update:

Detailed instructions for firmware update are given in 53 Mediacenter firmware update.

#### 32 Update parameters configuration

To perform update settings, use the left and right buttons to select the Settings tab.

ELTEX APPLICATIONS MULTIM		s
Become a tester (stable w	ork not guaranteed)	
Show notifies		

In this section, you can configurate the following settings:

- Get the latest updates (stability is not guaranteed) when the flag is set, the application must be updated independently. The media center will receive test versions of applications whose stability is not guaranteed;
- Update applications automatically when checked, all applications will be updated automatically.

### 33 'IPTV' application

#### 34 General Description

The 'IPTV' application allows you to view IP-TV channels and TV programs provided by the Internet service provider. You can open your playlist from a flash drive or specify the playlist URL in the application settings. The default URL is:

#### http://eltex.local/iptv/playlist.xspf

The playlist is formed according to a special format, for more details please read the IPTV playlist creation guide. Documentation can be downloaded in the download center on the official company website <a href="http://eltex-co.ru/support/downloads">http://eltex-co.ru/support/downloads</a>.

# 35 Explorer (File Manager)

### 36 General Description



The **'File Manager'** menu is intended for accessing media resources of a local network (from your computer and other devices included in it), connected hard disks and flash drives, SD cards.

To go to the **'Explorer'** menu using the remote control, use the **'right'** or **'left'** navigation buttons to select 'Explorer' and confirm with the **'OK'** button.

To exit the 'Explorer' menu and return to the main menu, press the **'HOME'** button.



Figure 157 - External 'Explorer' menu view

'Explorer' menu window is divided into 4 general areas:

- 1. Information panel, that indicate the pat to resource.
- 2. Bookmarks menu for accessing network media resources, USB flash drives, external hard drives, MicroSD, DLNA server.
  - *SD card* a directory that contains a list of files stored on a microSD connected to the device;
  - *JetFlash* directory that contains a list of files stored on external USB-drives connected to the device, USB flash-drives;
  - *Network resources* a directory that contains a list of available samba resources on the local network;
  - DLNA servers is a directory that contains a list of available DLNA server resources.
- 9. Field to view the contents of the specified resource.
- 10. Information panel

## 37 Control

This section describes the remote control usage principles in 'Explorer' menu.

#### 1 Navigation

- Navigation through the menu tabs is carried out using the 'down' and 'up' navigation buttons.
- To open the bookmark, press the 'OK' button.
- Navigation through the list of folders and files is provided with the navigation buttons 'down' , 'up', 'right', 'left'.
- To open the folder ot file, press the 'OK' button.
- 8 Files playback

Select a file from the list using the navigation buttons and press the **'OK'** button.

		'RETURN' - return to level back.	
		navigation buttons - navigation through the list of folders and files.	
	8	list;	
ОК	ОК	<b>'OK'</b> - selection confirmation; open/close directory;	
MENU	MENU	<b>'MENU'</b> - call the context menu: infor- mation, delete, rename, copy, cut, paste into the current folder, create a new folder.	
0	i	<b>INFO</b> - view file information.	

The principles of remote control during video, music playback and viewing images are given in 25 Video and music management and image viewing.

9 Context menu

Explorer provides the ability to copy, delete, move files, as well as create and delete folders.



To open the context menu, select a folder or file and press the 'MENU' button.

Select the required action using the navigation buttons and press the 'OK' button.

10 Information view

In this menu you can view information about the file or folder.

iptv_records	
Location:	/storage/sda1/
Number of subfolders:	
Number of files:	1
Last modified:	Thu Feb 28 11:37:14 GMT+07:00 2019
Size:	
File permissions:	
Read:	True
Write:	True
Execute:	True

To call the information window, press the 'INFO' button.

# **38 THE MEDIACENTER CONFIGURATION**

# **39 General Description**

In the 'Settings' menu, you can configure the media center settings.

To go to the 'Settings' menu using the remote control, use the **'right'** or **'left'** navigation buttons to select 'Settings' and confirm with the **'OK'** button.

To exit the 'Settings' menu and return to the main menu, press the 'HOME' button.

The Fig. 16 shows the 'Settings' menu appearance.



Figure 16 - External 'Settings' menu view

User interface window is divided into 2 general areas:

- 1 The settings sections are intended to select a group of customizable parameters, the table 12 shows their description.
- 2 Settings field. Based on the settings selection. Designed to settings view and parameters input.

Table 129 - De	escription of th	ne configuration	sections
----------------	------------------	------------------	----------

Section	Description
Network	The device network interface settings section.
Wi-Fi	Wi-Fi network setup <sup>1</sup> .
Ethernet	Wired network, VPN and PPPoE configuration.
Wi-Fi hotspot	Subscriber connection to the access point organized by the set-top box con- figuration.
More	Section is intended to Miracast cofiguration.
Device	Audio and video device parameters configuration, applications processing, language selecting and data entry method configuration.
Audio	Volume adjustment for different modes, system sound alerts configuration and audio output mode selection.
Display	Screen size, resolution and frequency adjustment.
Applications	View information about applications that are installed on the console, as well as installing, uninstalling applications and other actions.
Memory	View information about storage devices state that are installed on the con-

<sup>1</sup>For NV-501-Wac only

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	sole, as well as installing, uninstalling applications or other actions.	
Language and input	Interface language, keyboard and input method selecting, setting additional functions when entering words.	
Reset	Return to the factory default settings and all data deletion from the console.	
Advanced settings	Playback, UDP-to-HTTP proxy configuration.	
System	Device system configuration and debugging.	
Date and time	Time zone, date and time format configuration.	
Device info	View the model, firmware version, kernel version and build number informa- tion.	

### 40 The 'Wi-Fi' Section<sup>1</sup>

In the 'Wi-Fi' section you can connect to a Wi-Fi network and configure it.

🔯 Wi-Fi		+ C :
NETWORKS	ZyXEL_KEENETIC_5BE880 Connected	<b>?</b> 2.4/9
Ethernet	110sin 2G Secured with WPA2 (WPS available)	2.4/3
♥ Wi-Fi	DIRECT-dwPhaser 3052 Secured with WPA2 (WPS available)	<b>2</b> .4/11
DEVICE	Eltexkuznetsov2.4G Secured with WPA/WPA2 (WPS available)	<b>2</b> .4/6
Display	RT-WiFi-17f9 Secured with WPA/WPA2	<b>*</b> 2.4/2
Storage	RTL8186-default WPS available	<b>?</b> 5/132
	TestWiFi-Media-2.4 Secured with WPA/WPA2 (WPS available)	<b>2</b> :4/2
Language & input	asus2	<b>?</b> 2.4/11
Additional settings	BRAS-Guest	<b>?</b> 2.4/1
⑦ Reset of settings	WARNING!!! Scan network mode may reduce th	e data rate!

To connect to a Wi-Fi network. select the 'Wi-Fi' section. To view available networks, turn on Wi-Fi by clicking the **'OK' button**. Use the navigation buttons to select a wireless network from the list of available networks and click **'OK'**.

ELTEX_STB_TEST			
Signal strength Security Password	Good WPA2 PSK		
Show advanced options Cancel	Show passwor	d	

In the dialog box, perform the following settings:

- Password password for authentication in the wireless network;
- Advanced when checked, additional settings will be available.
- Advanced settings:
- *Proxy server* settings a way to configure a proxy server, if you select 'Manual', the follow-ing settings will be available:
- Proxy server host name;

<sup>&</sup>lt;sup>1</sup> Used only in NV-501-Wac.

- Proxy server port;
- Don't use proxy server
- *IP settings* network settings obtaining method:
- DHCP the device receives an IP address, gateway, DNS addresses automatically via DHCP;
- *Custom* the settings are done manually; when the "Custom" option is selected, the following fields will be available:
- IP address device IP address;
- Gateway gateway IP address;
- Network prefix length subnet mask as a prefix;
- DNS 1 primary DNS;
- DNS 2- alternative DNS.

To connect to a wireless network and save the settings, click the **'Connect'** button. To discard changes click the **'Cancel'** button.

#### Additional buttons:

- information update;
- additional functions:

Wi-Fi frequency band Auto	
Wi-Fi MAC address a8:f9:4b:26:aa:77	
Wi-Fi IP address 192.168.1.122	

# 41 The 'Ethernet' section

In the 'Ethernet' section, you can set the ethernet interface parameters.

	ETHERNET DEVICES
NETWORKS	eth0
🛃 Ethernet	MAC: A8:F9:4B:26:AA:76 - IP Mode:DHCP
📚 Wi-Fi	ETHERNET CONFIGURATION
	MAC Address
<sup>(</sup> <sup>™</sup> <sub>Å</sub> ) Portable hotspot	A8:F9:4B:26:AA:76
DEVICE	IP Address
🗘 Display	192.168.0.248
🕀 Sound	Advanced Configuration
Storage	PPPoE Configuration
🔄 Apps	
FRSONAL	
A Language & input	
🛱 Additional settings	
• Reset of settings	

- Additional parameters ethernet interface configuration;
- PPPoE configuration PPPoE server connection configuration;
- VPN VPN connection creation and configuration.
- -
- Ethernet configuration:

Advanced Configuration			
DHCP IP Address			
Mask Address 255.255.255.0			
Gateway 192.168.0.1			
DNS Server 192.168.0.71			
Cancel	Ok		

- DHCP network settings are obtained automatically by DHCP, by unchecking this item, you can manually enter network settings:
- IP address device IP address;
- Netmask subnet mask;
- Gateway gateway IP address;
- DNS address DNS server address;

To save settings click the 'Save' button. To discard changes click the 'Cancel' button.

#### VPN connection creation:

To create a VPN connection select the 'VPN' section and then in the upper right corner, click 😐:

	ETHERNET DEVICES
NETWORKS	eth0
🛃 Ethernet	MAC: A8:F9:4B:26:AA:76 – IP Mode:DHCP
📚 Wi-Fi 📖	ETHERNET CONFIGURATION
<sup>(</sup> <sup>™</sup> <sub>Å</sub> ) <sup>®</sup> Portable hotspot	MAC Address A8:F9:48:26:AA:76
DEVICE	IP Address 192.168.0.248
Display	
🜗 Sound	Advanced Configuration
Storage	PPPoE Configuration
🕿 Apps	VDN
PERSONAL	
🛕 Language & input	
🛱 Additional settings	

Name	
Type PPTP	
Server address	<b>^</b>
PPP encryption (MPPE) DNS search domains	
(not used)	
DNS servers (e.g. 8.8.8.8)	
(not used)	
Forwarding routes (e.g. 10.0.0.0/8)	
(not used)	

Fill in the following fields:

- *Network name* VPN connection name;
- *Type* VPN connection protocol type: PPTP, L2TP/IPSec;
- Server address VPN server address;
- *PPP (MPPE) encryption* when checked, data encryption over MPPE will be used for data transfer over the VPN channel;
- Advanced when checked, additional settings will be available:
- DNS lookup domains DNS lookup domain name ir IP address;
- DNS servers DNS server IP address;
- Forwarding routes.

To establish a permanent VPN connection select the **'VPN'** section and then in the upper right corner, click

Ethernet		+ :
NETWORKS	Test PPTP VPN	
🛃 Ethernet		
🗢 Wi-Fi 💷		
(1) Portable hotspot		
DEVICE		
Display		
🙌 Sound		
🗮 Storage		
🖄 Apps		
PERSONAL		
A Language & input		
Additional settings		
Reset of settings		

Always-on VPN	
Select a VPN profile to always remain connected to	
None	
Test	
ок	

Use the navigation buttons to select the network and press the 'OK' button.

#### **PPPoE Connection:**

Select the 'PPPoE Configuration' section to connect through PPPoE:

Fill in the following fields:

PPPoE Configuration			
Enable			
Username			
Password			
Cancel	Ok		

- Enable when checked, connection through PPPoE will be initiated;
- Username username for connection throgh PPPoE;
- Password password for connection through PPPoE.
- You can get Username and Password form your servicew provider.

### 42 The 'Wi-Fi Hotspot' section

In the 'Wi-Fi Hotspot' section, you can enable and configurate the client's connection to the access point created by the set-top box itself.

#### Wi-Fi hotspot configuration:

After going to settings, it is needed to enter the client connection settings:

Set up Wi-Fi hotspot			
Network SSID	AndroidAP		
Security	WPA2 PSK		4
Password			
The password must have at least 8	characters.		
	Show passwore	d	
Show advanced options			
Wi-Fi frequency band	Auto		4
Use AP as bridge			
IP address	192.168.10.1		
DHCP Start address	192.168.10.50		
DHCP range	50		
Lease time	36000		
Use service UDP to HTTP proxy			
Cancel			Save

# 43 The 'More...' section

This section is intended for media content transfer to the console via Miracast.

Имя устройства AndroidAP	
Беспроводной монитор Отключен	
Приемник сигнала Miracast	

- Device name Hotspot name;
- Wireless monitor continuous media devices scanning on/off;
- Miracast signal receiver receiver enebling.

# 44 The 'Sound' section

In the 'Sound' section you can adjust the volume for different modes, configurate system sound alerts and audio output mode.

SOL	ind		
South South	NETWORKS  Ethernet  Keiner Ethernet E	Volumes AUDIO OUTPUT MODE Use LPCM Foroibly	
	<ul> <li>Language &amp; input</li> <li>Additional settings</li> <li>Reset of settings</li> </ul>		

- Volume in this section you can adjust the volume for different modes.
- Music, video, games and other media files volume adjustment for mediafiles;
- Alerts volume adjustment for mediacenter system alerts;
- Alarm volume adjustment for the alarm.

#### Sound effect during playback:

- Disable;
- Night mode;
- Comfort mode.

#### Audio output mode:

- Use internal decoder — when checked, LPCM mode will be active, otherwise RAW. LPCM audio is decoded by an internal decoder, RAW audio is decoded by an external decoder.

### 45 The 'Display' section

In the 'Display' section you can configurate the size, definition and display refresh rate.

Dist	olay		
	NETWORKS	TV System Auto	
	Ethernet	Adaptation of HDMI frequency to frequency of content Change frequency of HDMI before playing on the frequency of content	
	* WI-FI       ************************************	Reaction to turning off TV To do nothing	
	DEVICE	SETTING OF SCREEN SIZE	
	Display	+ Screen Zoom100% —	
	🜗 Sound		
	Storage		
	🖄 Apps		
	PERSONAL		
	🔺 Language & input		
	Additional settings		
$\mathbb{Z}^{\mathbb{Z}}$	⑦ Reset of settings		R_

- •
- *TV display mode* screen resolution configuration: 1080; 720; auto. Selecting 'auto' will automatically adjust the display resolution;
- HDMI frequency adjustment to the content frequency screen frequency configuration: auto; p60; i60; p50; i50. Selecting 'auto' will automatically adjust the display refresh rate;
- *TV off reaction* the set-top box behaviour when turning off the TV. Available options: Do nothing, **Go to the launcher** (by default), Sleep mode. In the 'Go to the launcher' and sleep modes, the reaction occurs after 30 seconds, after turning off the TV.
- Adjusting to the screen size you can change the screen size using the 'Zoom', 'Reduce' buttons.

To save changes, click the **'Apply'** button.

# 46 The 'Storage' section

In the 'Storage' section, you can view the status of storage media installed on the device information. Also you can install and remove applications, or perform other actions.

Stor	age		
	NETWORKS	Preferred install location Change the preferred installation location for new apps	
	🖪 Ethernet	INTERNAL STORAGE	
	🗢 Wi-Fi 💷		
	<sup>((</sup> <sup>1)</sup> Portable hotspot Ⅲ	Total space 1.376B	
	Display	Available 1.08GB	
	📢 Sound	Apps (app data & media content)	
	Storage		
	🖄 Apps	4.59MB	
	PERSONAL	SD CARD	
	A Language & input	Mount SD card	
	Additional settings	Erase SD card	
	<ol> <li>Reset of settings</li> </ol>	USB STORAGE	

## 47 The 'Applications' section

In the 'Applications' section, you can view the applications information. Also you can stop and remove applications, or perform other actions.

Apps		:
NETWORKS		ON SD CARD
🛃 Ethernet	48.12MB	
🗢 Wi-Fi 💷		
<sup>((</sup> )) Portable hotspot Ⅲ		
DEVICE		
Display		
🙌 Sound		
Storage		
🛃 Apps		
PERSONAL		
A Language & input		
Additional settings		
Reset of settings		
	301MB used Internal storage	free
	<ul> <li>Apps</li> <li>NETWORKS</li> <li>Ithernet</li> <li>Wi-Fi</li> <li>Wi-Fi</li> <li>Wi-Fi</li> <li>Iti</li> <li>Wi-Fi</li> <li>Iti</li> <li>Display</li> <li>Olisplay</li> <li>Storage</li> <li>Apps</li> <li>PERSONAL</li> <li>Language &amp; input</li> <li>Additional settings</li> <li>Reset of settings</li> </ul>	NETWORKS     Image: Comparison of the storage     Image: Comparison of the storage

Applications are divided into the following categories:

- Third-party applications from other manufacturers;
- On the SD card applications that are installed on the SD card;
- Running applications that are currently active in the system;
- All all applications installed on the system;
- Stop the button for force application stop;
- *Remove* the button to remove the application from the device system;
- Move to SD card the button to install the application on the SD card;
- Delete data the button for application data deleting;
- Clear cache the button for clearing the application cache;
- Delete default settings button to reset default settings.

## 48 The 'Language and input' section

In the 'Language and input' section you can select interface language, keyboard and input method, set the additional functions when entering words.

tang	juage & input				
_	NETWORKS		Language English		
_	🛃 Ethernet		Text Encoding AUTO		
-	♥ Wi-Fi III           (*;)*         Portable hotspot		Hide screen keyboard if external hard keyboard connected		
	DEVICE	KEYE	BOARD & INPUT METHODS		
	Display		<b>Default</b> English (US) - Android Keyboard (AOSP)		
_	🜗 Sound		Android Keyboard (AOSP) English (US)	<u>=</u>	
-	🗮 Storage	моц	ISE/TRACKPAD		
	🖄 Apps		Pointer speed		
	PERSONAL				
	🔺 Language & input				
	Additional settings				
	⑦ Reset of settings				

#### Language and input

- Language select the interface language;
- *Text encoding* setting the selected encoding for the entire system. It can take the values: AUTO, UTF8, BIG5, GBK;
- Hide the on-screen keyboard if an external one is connected.

#### Keyboard and input methods:

- *By default* setting the keyboard to be used by default: russian; QWERTY keyboard; ELTEX keyboard. The default keyboard is ELTEX;
- Android keyboard (AOSP) when checked, the Android QWERTY keyboard will be used:



- Google voice input - voice typing.



#### Voice input:

- Voice search - voice input configuration



# 49 The 'Configuration reset' section

In the 'Configuration reset' section, you can return the device to the factory default settings.

Reset of settings	
Reset of settings	PERSONAL DATA Factory data reset Erases all data
Reset of settings	

- *Configuration reset* - return to the factory default settings and all data deletion from the console. After clicking on the 'Configuration reset' button you will see following menu:

Reset of settings		
NETWORKS	Reset	
🛃 Ethernet		
🗢 Wi-Fi 💷		
<sup>(</sup> ໄ <sup>3)</sup> Portable hotspot III		
DEVICE		
Display		
- မြ) Sound		
Storage		
🛃 Apps		
PERSONAL		
A. Language & input		
Additional settings		
<ul> <li>Reset of settings</li> </ul>		

Click the 'Reset' button. Confirm by clicking the 'Erase all' button:

🔯 Сброс настроек		
устройство	Удалить всю личную информацию и загруженные приложения без возможности восстановления?	
<b>Ф</b> и Звук		
🗘 Экран	Стереть все	
🗮 Память		
🛃 Приложения		
А. Язык и ввод		
🛱 Дополнительные настройки		
О Сброс настроек		
 + Добавить аккаунт		
СИСТЕМА		
🕚 Дата и время		
① Обустройстве		

All data from the device's internal memory will be deleted, including:

- your Google account;
- System and application configuration/data;
- downloaded applications.

### 50 The 'Date and time' section

In the 'Date and time' section, you can configurate the time zone and date and time format.

🔯 Date & time					
	Display				
	M Sound				
	Storage	:	Select time zone GMT+07:00, Novosibirsk Standard Time		
	PERSONAL	l	U <b>se 24-hour format</b> 13:00		
	A Language & input	1	Choose date format 12/31/2019		
	Additional settings				
	⑦ Reset of settings				
	ACCOUNTS				
	+ Add account				
	① Date & time				
	① About				

- Date date set in the system, the field can't be edited;
- *Time* system time, the field can't be edited;
- *Time Zone* sets the time zone relative to GMT;
- 24-hour format when checked, sets the 24-time format;
- *Date format* select the date format:
- default the format will be set: day.month.year;
- month.day.year;
- day.month.year;
- year.month.day.

## 51 The 'About' section

In the 'About' section you can view the information about model, software version, kernel version and build number.

O About		
Divelou	System update	
W Sound	Status Status of the network, and other information	
Storage	Model number NV-501-Wac	
Apps Personal	Android version 4.4.4	
👃 Language & input	Kernel version 3.10.24 production@develos2#1	
Additional settings	Wed Aug 8 09-22:38 +07 2018	
の Reset of settings	Build number revA-eltex-1.0.29-b100	
+ Add account		
O Date & time		
① About		

- *Status* - provides general information about the device:

s	tatus	
	Wi-Fi IP address 192.168.0.248	
	Wi-Fi MAC address a8:f9:4b:26:aa:77	
	Bluetooth address <sub>Unavailable</sub>	
	Serial number SB1A011803	
	Up time 0:48:21	

- IP address mediacenter IP address;
- Wi-Fi MAC address internal Wi-Fi adapter MAC address;
- Serial number-mediacenter serial mumber;
- Uptime.
  - Model mediacenter model;
  - Android version firmware version;
  - Kernel version firmware core version;
  - Build number firmware buld number.

### 52 The 'Advanced settings' section

The 'Advanced Settings' section is available when entering the advanced setup mode. To enter the advanced settings mode, press and hold the 'F' button on the remote control in the 'Settings' menu until a dialog box appears. Enter password **0000** (four zeros) in appeared dialog box.

C Additional settings				
Additional settings	PLAYING          Start HLS bitrate         Medium         Deinterlacing         Auto         UDP-To-HTTP         UDP-to-HTTP Proxy Configuration			
<ul> <li>Reset of settings</li> </ul>				

#### Playback:

- Start bitrate for HLS the initial bitrate for HLS:
- Low;
- Medium-set as default;
- High.
- *Deinterlacing* turn on the process of converting an interlaced image into a line-by-line, removing the serration for better viewing.

#### UDP-TO-HTTP:

- UDP-to-HTTP Proxy configuration -UDP links to HTTP converting. By default, the conversion function is disabled, the default proxy port is set to 1234.

# 53 MEDIACENTER FIRMWARE UPDATE

# 54 General information

Changing the set-top box firmware is possible in the following ways:

- firmware update via application store;
- update from USB drive;
- factory default restoring;
- update via ACS.

In addition to firmware updating from external media, it is possible to restore the firmware, which may be necessary if the user wants to update system with the removal of all user data or restore the device to work in case of damage to the working firmware (power off the device during the update, disconnect during the update, etc.).

To ensure that the firmware can be changed in the absence of the Internet or in the absence of an update server provider, it is possible to update the firmware from the local drive. Any drive with a USB port can act as a local drive.

### 55 Firmware update via application store



In the Application Store, use the 'left' and 'right' buttons to select the 'firmware' tab .

After switching to the tab, the current version will be indicated and if a new version is present, the 'Update' button will be available.

You may also see a notification that an update is available.

# 56 Update from USB drive

A prerequisite for updating software from a USB drive is the presence of the installed File Manager and Application Store applications - these applications are included in all firmwares.

#### The procedure for updating from USB-drive:

- 1. Copy the firmware file to the root or any other directory of the USB-drive;
- 2. Connect the USB-drive to any console USB port;
- 3. Run the 'File Manager' application:



11. Select **'Drive'**, press **'OK'**. Specify the firmware file and press the **'OK'** button on the remote control:

Volume 14.4	44 Gb NV-50	1	
Volume 14.44 Gb		Fw501wac-revA- eltex-10.29-b100.fwe	
Samba		Do you want to update the firmware?	
resources		Cancel	
DLNA resources			

12. Confirm the start of the update process:



The update progress dialog will start. After the update process, device will automatically restart:





All user data and applications will be saved with this updating method.

# 57 Factory default restoring

#### The procedure for updating via recovery:

- 1. Copy the firmware file to the root directory of the USB-drive;
- 2. Connect the USB-drive to any console USB port;
- 3. Press and hold the function button 'F', located on the bottom panel of the device;
- 4. Enable the console, while holding the 'F' button;
- 5. Release the F button after entering the software recovery mode message will appear on the screen:

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- 13. The recovery process will start automatically;
- 14. The update progress dialog will start. At the end of the console update process, a dialog box will be displayed asking you to restart the console.

### 58 Update and Configuration via ACS

By default, the console is configured to communicate with the **ACS** server with **acs-eltex.local** host address.

For detailed information on how to configure and connect the console to ACS server on our website eltex.nsk.ru in the 'Products / Control Systems / Eltex.ACS' section by downloading 'Instructions for working with the STB sector in Eltex.ACS'.

Downloading, installing and configuring the ACS server process is described in the '**Operating Manual**' manual . For more information go to**eltex.nsk.ru** website in the '**Products** / **Control Systems** / **Eltex.ACS**' section.

# APPENDIX A. UNIVERSAL REMOTE PROGRAMMING MANUAL

To control the TV using the universal remote control, the buttons of the TV unit must be assigned to the TV remote control buttons functions. Only the TV unit buttons are used to control the TV: TVIN, V-, V+, Fig. 18.



Fig. 18 - Universal remote control

To program the universal remote control buttons you need:

- 1. Press and hold the 'SET' button on the mediacenter universal remote control until a brighter red LED will appear (about 3 seconds).
- 2. Press the button you want to program, and the red LED will start flashing.
- 3. Direct the infrared transmitter of the programmable remote control to the TV remote control (hold the remotes at a distance of 3-5 cm) and press the button on the remote control of the TV whose functions you want to transfer.
- 4. After successful programming of the remote control buttons, the LED will flash three times, and then will begin to glow. Now you can select other buttons for programming.
- 5. After programming the buttons on the remote, press the 'SET' button to exit the button programming mode. The red LED will turn off.

#### **TECHNICAL SUPPORT**

For technical assistance in issues related to handling of ELTEXALATAU Ltd. equipment please address to Service Centre of the company:

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In official website of the ELTEXALATAU Ltd. you can find technical documentation and software for products, refer to knowledge base, consult with engineers of Service center in our technical forum:

http://www.eltexalatau.kz/en/