



HD/SD Multi Channel Transcoder

TR6015

USER MANUAL

2016/01



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1 PRODUCT INTRODUCTION

1.1 OUTLINE

The TR6015 is multichannel video and audio transcoder which provides a powerful processing engine for linear broadcast transcoding ideal for IPTV solutions.

Transcoder is based on an ultra-fast ViXS chipset offers you a great tool for your project. It's capable of transcoding/encoding up to 15 SD or HD channels. You don't need to buy many devices, and thus avoid filling too much room. The Slim 1U Rack design will save you space and money. This solution is great for any IPTV project, from typical Telco headends to large scale OTT projects. It is an extremely cost effective solution per channel.

The ANTIK TR6015 HD/SD Multi Channel Transcoder is a professional tool for headend application developed to enhance transcoding efficiency and decrease its time delay. It supports a wide range of operating programs, from low to very high bit rates. The device features the latest advancements in video encoding, performing to H.264 and MPEG specifications. The multiprofiling option can secure various, impressive & flexible transcoding functions, which can be controlled in order to provide a plenty of transcoding applications.

All the features are well supported by the Antik Transcoder Web Management, where you can easily configure the settings for your optimal performance. Front panel with the OLED display also offers another way of managing or checking the status of the device. All together, this system is an extremely cost effective solution per channel.

1.2 MAIN FEATURES

- Real time transcoding of up to 15 video streams
- Support for MPEG4 and H.264 Video Encoding
- Multi-format IP2IP video transcode (H.264, MPEG2)
- HD Encoding up to 1080i
- 2x1U slim rack-mounted design
- Low power consumption
- 10/100/100 Base-TX Ethernet network interface
- Front panel with OLED display
- WEB-based remote configuration and control (HTTP)
- All SD and HD resolutions support
- Support of wide range of bit rates: 6Kbps to 40 Mbps
- Compatible with all major television broadcasting standards: NTSC, PAL, SECAM

1.3 TECHNICAL SPECIFICATIONS

The technical specifications of TR6015 are as follows:

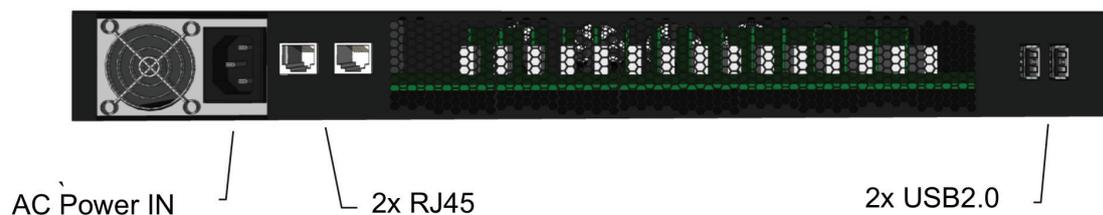
Video Transcoding	MPEG2 SD/HD to MPEG2 SD/HD	
	MPEG2 SD/HD to MPEG4 SD/HD AVC	
	MPEG2 SD/HD to MPEG4 SP/ASP	
	MPEG4 SD/HD AVC to MPEG2 SD/HD	
	MPEG4 SD/HD AVC to MPEG4 SD/HD AVC	
	MPEG4 SD/HD AVC to MPEG4 SP/ASP Bit-rate reduction of multiple streams, 40Mbps to 64Kbps Resolution reduction, HDTV to HDTV, SDTV	
Audio Processing	MPEG2 LI, LII	
	MPEG2 AAC-LC-Stereo	
	Dolby AC-3 True HD, 7.1, 5.1, Stereo	
	MPEG1, L1, L2, MP3, AAC, Dolby AC-3 True HD 7.1, 5.1	
Interfaces	2x RJ45 10/100/1000MBit	
	2x USB2.0 for 2x Slave transcoder unit	
Operating Conditions	Temperature range	0 to +60°C
	Operating humidity range	10 to 90% RH
	Power supply range	100 – 240VAC / 50-60Hz
	Typical power consumption	150W
Dimensions	HxWxD	44x430x380mm
	Weight	3kg

2 DEVICE DESCRIPTION

2.1 FRONT PANEL



2.2 REAR PANEL



3 DEVICE MENU DESCRIPTION

3.1 ROTARY ENCODER FUNCTION

Use rotary encoder to navigate in device menu. Rotary encoder function:

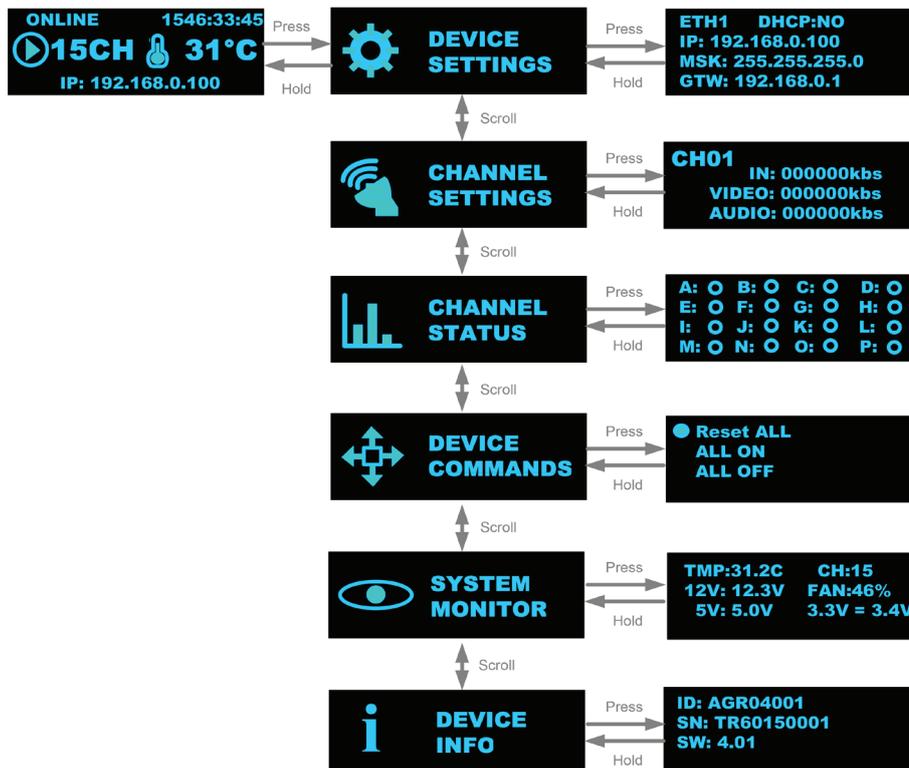
- Rotate clockwise / counterclockwise – scroll through device menu / change item value
- Short press – enter selected item / confirm edited value
- Long press - escape

3.2 POWER ON/OFF

Short press on power button turn on device power. Holding power button for at least 5 seconds turns device power off.



3.3 MENU MAP



3.4 DEVICE SETTINGS

Ethernet 1 and 2 interface setup / display:

- DHCP enabled / disabled
- IP Address
- MASK
- Gateway

3.5 CHANNELS SETTINGS

Setup / display 1 – 15 channels settings:

- Input bitrate
- Video output bitrate
- Audio output bitrate

3.6 CHANNELS STATUS

Displays actual status of power supply of channels 1 – 15

3.7 DEVICE COMMANDS

- Manual reset of all channels
- Power ON all channels
- Power OFF all channels

3.8 SYSTEM MONITOR

Displays information about device:

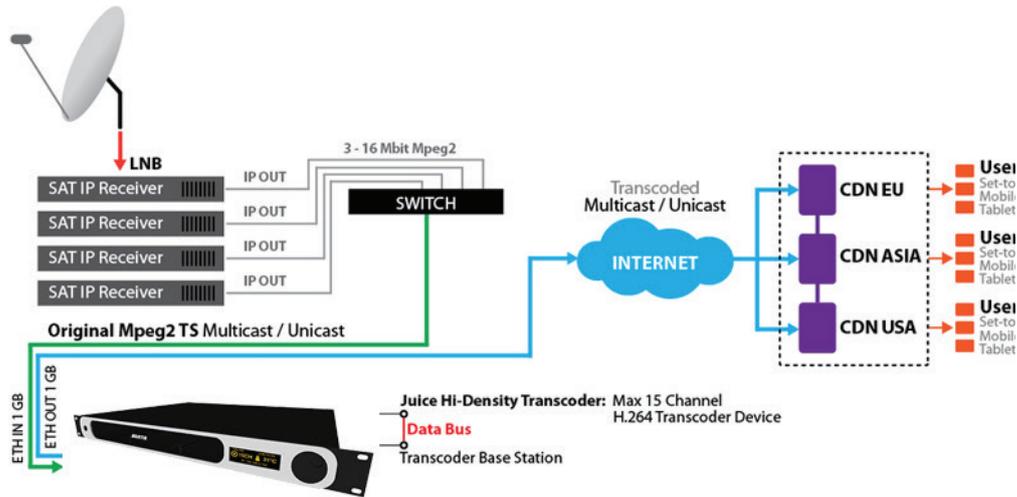
- Temperature
- Active channels
- Voltage status

3.9 SYSTEM MONITOR

Displays device identification:

- Device ID
- Device's serial number
- Software version

4 DEVICE INSTALLATION



5 WEB INTERFACE

As the first step will be obviously login to web interface management. Type your login name and password, then press Login button. Transcoder interface menu should appear immediately. You can create also more login accounts with various levels of authorization (see page 7).

5.1 CONFIGURATION SCREEN

Click on the Config icon in the upper menu. You will see list of connected transcoder devices and also list of transcoding modules in each device. You can see slot number and description of transcoding module. Description is usually name of the channel. On the right side is able to see date of last modification and configure button, which will redirect you to general, input and output configurations.

ID	STATUS	TS	NAME	IN	OUT	VIDEO CODEC	RESOLUTION	VIDEO BITRATE	AUDIO BITRATE	RESET	LAST RESET	ACTIONS
000-h	ON	230504636	1:43:00:00	test mode transcoding	239.1.1.14789	to:7000	N/A	AUTO	1.20M bit/s	192.00k bit/s	Di: 2h 55m	Action
001-b	ON	230504636	1:43:00:00	test mode transcoding	239.1.1.14789	to:7001	N/A	AUTO	1.20M bit/s	192.00k bit/s	Di: 2h 55m	Action
002-c	ON	230504636	1:43:00:00	test mode transcoding	239.1.1.14789	to:7002	N/A	AUTO	1.20M bit/s	192.00k bit/s	Di: 2h 55m	Action
003-d	ON	230504636	1:43:00:00	test mode transcoding	239.1.1.14789	to:7003	N/A	AUTO	1.20M bit/s	192.00k bit/s	Di: 2h 55m	Action
004-e	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7004	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 55m	Action
005-f	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7005	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
006-g	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7006	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
007-h	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7007	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
008-j	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7008	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
009-k	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7009	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
010-l	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7010	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
011-m	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7011	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
012-n	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7012	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
013-o	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7013	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action
014-p	OFF	0:00:00:00	0:00:00:00	test mode transcoding	239.1.1.14789	to:7014	N/A	AUTO	0.00 bit/s	0.00 bit/s	Di: 2h 22m	Action

5.2 GENERAL CONFIGURATION

In general configuration you can create (or edit) name of the selected transcoding module, write some description, which can be useful for other users (for example this channel has problem with audio need to fix, etc.). From the scrollbox on the bottom you can select activate or deactivate status. If you will select Activate, all settings will change in next refresh period (once per minute) and module will be activated for the transcoding. If you select Deactivate, you will stop transcoding of selected module.

The image shows two screenshots of a web-based configuration interface for a transcoding module named 'dev-A601ADRB-003'.
 The left screenshot displays the 'General' tab. It includes a 'Name' field with the value 'AnimalPlanet_Smart', a 'Description' text area, and an 'Active' dropdown menu set to 'Activate'. There are 'Save', 'Export', and 'Import' buttons at the bottom.
 The right screenshot displays the 'Stream params' tab. It features a 'Choose Stream Parameters' section with a dropdown menu set to 'Animal Planet Europe (0x64)'. Below this are sections for 'PID filter', 'Audio', 'Video', and 'Subtitles', each containing a list of items with checkboxes. The 'Audio' section lists items like 'PID: 99 (he: 0x3, codec: mp3, lang: csp)'. The 'Video' section lists 'PID: 100 (he: 0x4, codec: h264)'. The 'Subtitles' section lists various subtitle streams with their respective PIDs and codecs.

5.3 INPUT CONFIGURATION

Here you can set name of network interface with predefined IP address and port of the transcoded content source. You can also select Input IP and write required IP address and port.

The image shows a screenshot of the 'Input' configuration tab for the same transcoding module. It includes an 'Interface' section with a dropdown menu set to 'input IP' and a sub-field '(eth0)'. Below this are two input fields: 'IP input stream' with the value '232.232.69.7' and 'Port input stream' with the value '5004'. There are 'Save', 'Export', and 'Import' buttons at the bottom.

5.4 OUTPUT CONFIGURATION

List of output settings of the selected transcoding module. Similar as in input configuration, firstly you need to set output IP address and port (if output IP address is same like input, then you need to have different ports).

If you want you can also set UDP Timeout, which means time after transcoding module will turn off and on after stop of dataflow. Write this time in seconds, if you will keep this box empty (or you can type there 0), then transcoding module will restart immediately.

Again you can set interface for multicast streaming (usable only in multicast network) In the box TTL for broadcasting multicast you can set required value.

What is TTL?

The TTL (Time To Live) field in the IP header has a double significance in multicast. As always, it controls the live time of the datagram to avoid it being looped forever due to routing errors. Routers decrement the TTL of every datagram as it traverses from one network to another and when its value reaches 0 the packet is dropped.

In Video settings you can configure various output settings like:

Video Codec

- AUTO – automatically set codec which is in input (Pass through)
- MPEG – option of variable (VBR) or constant (CBR) bitrate
- AVC - option of variable (VBR) or constant (CBR) bitrate

Video bitrate – just type value of video bitrate which you want to have.

Resolution – choose from list of resolutions (and frame rates) which will be most suitable for you

H.264 profiles – choose from list of profiles which will meet your requirements. For profile explanations see http://en.wikipedia.org/wiki/H.264/MPEG-4_AVC#Profiles

H.264 levels – choose from list of levels which will meet your requirements. For level explanations see http://en.wikipedia.org/wiki/H.264/MPEG-4_AVC#Levels

In Audio settings you can configure Audio codec and set audio bitrate which will be most suitable for you.

Configuration file: dev-A601ADRB-003

General Input Output Stream params

Interface

Out interface: Output IP (eth0)

IP output stream: 239.128.4.15

Port for output stream: 5004

Interface for broadcasting multicast: eth0

TTL for broadcasting multicast: 6

Video

Video codec: AVC_VBR (AVC_VBR)

Video bitrate: 1400000 (1200000)

Resolution output + framerate: AUTO (AUTO)

Video flags: FULL_DECODE_FULL_ENCODE

Profile for H264: (HIGH)

Level for H264: (LEVEL 4.1)

Audio

Audio codec: AAC (COPY)

Audio bitrate: 192000 (192000)

Save Export

Import

5.5 CONTROL PANEL

Click on the Control icon in the upper part of the screen and control menu will appear immediately. Here you can see information about transcoding processes of each module in all connected devices. These information include Data In, Data out, Video bitrate, Audio bitrate and Statuses.

Statuses:

1. Transcoding – Channel transcoding process is running by configured settings and server is communicating.
2. Not transcoding – Channel has not configured settings or transcoding is not turned on.
3. Offline – Transcoding module isn't connected, isn't communicating with server, isn't able to notify and cannot be pinged.
4. Server not available – Transcoding module is communicating but application is not. Server can be at least pinged in this status.
5. Error – Error notification.

Control panel
Monitoring actual statuses of devices
Last refresh time: 15.08.2012 12:38:23

Device: **A4015E5Z**

Slot	Name	Data In	Data Out	Video bitrate	Audio bitrate	Status	Action
000	Cinemax	2938.80 kbps	956.06 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
001	STV1 High	7002.19 kbps	1328.61 kbps	1200.00 kbps	124.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
002	Doku CS	2572.77 kbps	1172.28 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
003	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
004	Filmbox	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
005	FishingAndHunting	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
006	Kino CS	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
007	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
008	Muzika CS	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
009	pravdny -- NEZAPINAT: audio off(PaprikaTV)	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
010	Spektrum Home	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
011	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
012	Doma Low	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Active Reset Set Bitrate Configure View Log
013	CT2 low	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Active Reset Set Bitrate Configure View Log
014	CT2 High	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Active Reset Set Bitrate Configure View Log

Filter: Offline Transcoding No transcoding No response

Device: **A4015E61**

Slot	Name	Data In	Data Out	Video bitrate	Audio bitrate	Status	Action
000	Prima Cool	3287.69 kbps	2281.53 kbps	2000.00 kbps	124.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
001	Slovak Sport SD -- nahrada Private Spice	4774.22 kbps	1125.33 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
002	Sport1 Low	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Active Reset Set Bitrate Configure View Log
003	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
004	Sport1 High	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Active Reset Set Bitrate Configure View Log
005	Musiq1	2540.95 kbps	1061.08 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
006	MTV	3522.31 kbps	670.45 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
007	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
008	VH1	3967.91 kbps	1112.84 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
009	JamJam -- audio off	2285.10 kbps	789.52 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
010	RTL -- nestliger Kolla	3586.40 kbps	1627.31 kbps	1500.00 kbps	124.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
011	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log
012	PRO7 -- nestliger Kolla	4628.27 kbps	2088.25 kbps	1500.00 kbps	120.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
013	MTV Dance	1989.26 kbps	1214.69 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log
014	Discovery World	3543.53 kbps	1117.66 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactive Reset Set Bitrate Configure View Log

Filter: Offline Transcoding No transcoding No response

Information about amount of receiving and sending data per second. Showing info about set video and audio bitrate value

In the control menu you have various action buttons for controlling the transcoding process.

Active/Deactive – Turn on/off transcoding of selected module

Reset – Turn off and on power supply on selected transcoding module. All settings will be saved.

Set bitrate – After click on this action button small window will appear, where you can type your required bitrate value.

Configure – Switch to config menu of the selected transcoding module

View log – show window with information and history of all operations on this module.

Control panel
Monitoring actual statuses of devices

Device: **A4015E5Z** Refresh time: 15.08.2012 12:38:23

Filter: Online Transcoding No transcoding No response

Slot	Name	Data In	Data Out	Video bitrate	Audio bitrate	Status	Action
000	Cinemax	2938.80 kbps	950.06 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
001	STV1 High	7002.19 kbps	1228.61 kbps	124.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
002	Duka CS	2572.77 kbps	1172.28 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
003	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
004	Filmbox	1830.12 kbps	1185.50 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
005	FishingAndHunting	3023.67 kbps	1260.47 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
006	Kino CS	2530.34 kbps	900.28 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
007	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
008	Muzika CS	1426.96 kbps	1273.69 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
009	prazdny -- NEZAPINAT: audio off(PaprikaTV)	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
010	Spektrum Home	2556.86 kbps	1395.09 kbps	1000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
011	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
012	Duma Low	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Activate Reset Set Bitrate Configure View Log
013	CT2 low	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Activate Reset Set Bitrate Configure View Log
014	CT2 High	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	No device Reset Set Bitrate Configure View Log

Device: **A4015E61** Filter: Online Transcoding No transcoding No response

Slot	Name	Data In	Data Out	Video bitrate	Audio bitrate	Status	Action
000	Prima Cool	3267.69 kbps	2281.53 kbps	2000.00 kbps	124.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
001	Slovak Sport SD -- nahrada Private Spice	4774.22 kbps	1125.33 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
002	Sport Low	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Activate Reset Set Bitrate Configure View Log
003	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
004	Sport High	0.00 kbps	0.00 kbps	8000.00 kbps	192.00 kbps	Not transcoding	Activate Reset Set Bitrate Configure View Log
005	hust1	2540.95 kbps	1061.08 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
006	MTV	3522.31 kbps	870.45 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
007	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
008	VHT	1112.28 kbps	1112.28 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
009	JanJam -- audio off	2390.10 kbps	790.52 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
010	RTL -- test Igor Kolla	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
011	Undefined	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
012	PRO7 -- test Igor Kolla	0.00 kbps	0.00 kbps	0.00 kbps	0.00 kbps	Offline	Deactivate Reset Set Bitrate Configure View Log
013	MTV Dance	1989.26 kbps	1214.69 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log
014	Discovery World	3543.53 kbps	1117.66 kbps	1000.00 kbps	96.00 kbps	Transcoding	Deactivate Reset Set Bitrate Configure View Log

5.6 SECURITY

Security has 2 parts:

1. List of users
2. Access IP Range

Security

1. List of users

Here you can create, delete and edit users authentication settings. On the bottom you can find simple form, where you can add new user. This user will be listed in list of users which have access to the admin interface of Juice Hi-Density Transcoder TR-6120. You can adjust level of authentication to each one of them. There are 4 levels of authentication:

- Super Admin – full access
- Admin – device configuration
- User – read only access
- Blocked – no access

Security config

List of users

Name	Action
admin	super admin Change passwd Delete
kolla	admin Change passwd Delete
mshpc	admin Change passwd Delete

New username: New password: New password re-type: Access rights: [Add user](#)

Access IP range

IP	Description	Action
127.0.0.1	IPV4 localhost	Delete
:::1	IPV6 localhost	Delete
0.0.0.0-255.255.255.255	all	Delete

IP range from: IP range to: Description: [Add IP range](#)

2. Access IP Range

To increase security its possible to define ability to access to the admin interface from one IP address or range of IP addresses. If you want to add new range of IP addresses just type it into the bottom three boxes and click Add IP range. If you want to add just one IP address type this address into both boxes (IP range from and IP range to). When you want to delete IP address just click on the right side on button delete.



6 TROUBLESHOOTING

ANTIK's ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All ANTIK products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by ANTIK. To prevent potential hazard, please strictly follow the operation conditions.

Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

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