

ANTIK JUICE IPTV DEMO KIT MANUAL

Thank you for purchasing the Juice IPTV Demo Kit (IDK). We have put together the Juice IDK to offer our client a good insight about IPTV, and to give you a hand-on experience on managing an IPTV system. We hope you will enjoy it, and find it useful.

Please follow these steps:

- 1/ Use PC with only one on-board Ethernet
- 2/ Install HDD to server
- 3/ Plug USB/ETH adapter to server
- 4/ Connect your office internet (from router) to USB/ETH adapter
- 5/ Turn on your PC and boot from HDD
- 6/ Wait until the system boots the login screen and log in (user name: demo, password: aantik)
- 7/ Open web browser on desktop and find the index page with details of ethernet adapters
- 8/ Correct settings: ETH0 = 172.24.0.12, ETH1 = 192.168.x.x (your company address)
- 9/ If ETH0, ETH1 are not correct, then press the button "Reinit network interface"
- 10/ Reboot the system and check again
- 11/ If everything is OK, connect to on-board ETH0 set-top box. Then reboot.
- 12/ STB will show you IP address in range 172.24.0.x
- 13/ Use demo kit switch to split network and connect your computer

Part #1 – Package Content

The Juice IDK comprises of the following parts:

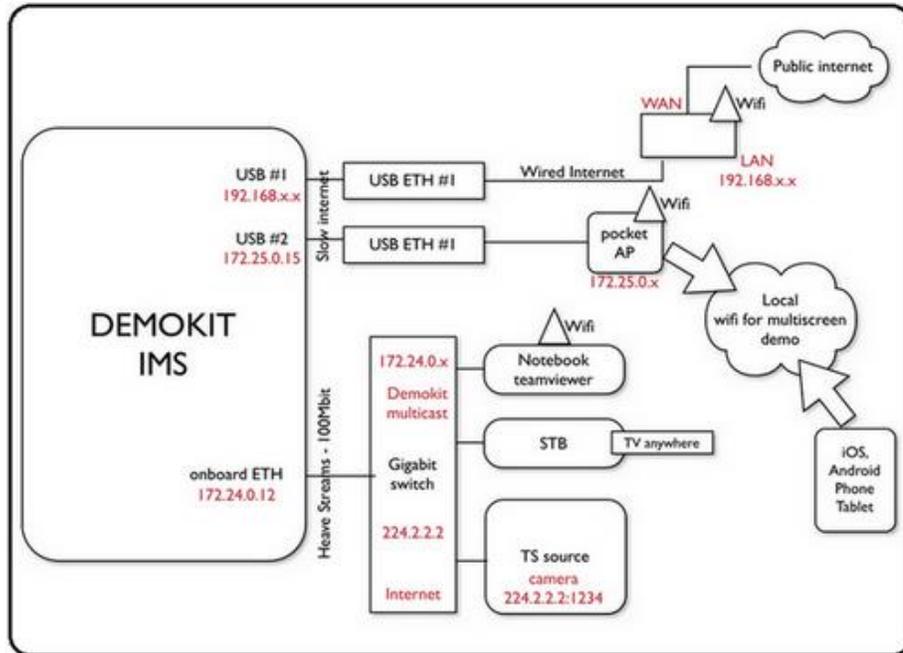
- * 2x STB Juice Mini (Model : 7162R/S) – with Euro 2-pin adapter
- * 1x HDD 500GB with full IPTV environment (Live TV, TV Archive, VOD, IMS,etc..)
system requirement : CPU i3 and above, 4GB RAM
- * 2x USB ETH external adapter (ETH#1 for internet, ETH#2 for streaming to mobile devices)
- * 1x Gigabit switch (5 ports)
- * 1x Wifi Access Point for multiscreen demo
- * 1x TV anywhere USB dongle (personal encoder)
- * 1x 16GB USB Flash Drive (for time shift, PVR and media center demo)
- * 3x RJ45 ETH cables
- * 1x RF IPTV Wireless Keyboard
- * 1x Juice Debug cable (with USB to RS232 adapter)
- * 2x power head US -> EU



USB/ETH adapter is part of demo kit

Part #2 – Setting the IPTV System

- 1) Install the Demo HDD into the system, this is the IPTV media server ,
- 2) Connect Gigabit Switch (at least 4-port) to the onboard RJ-45 ethernet port (ie. ETH0),
- 3) Connect the USB Ethernet Adapter to the PC Server, and connect it to Internet via RJ45 cable (ie. ETH1),
- 4) Power ON the system, the Linux OS will boot-up in min.3 minutes,
- 5) Connect the STB to the Gigabit Switch + connect the STB to the TV set, and turn the STB on
- 6) Open browser in Linux OS – type <http://localhost/> or <http://127.0.0.1>
If your Ethernet setup is not setup correctly use the button “Reinit network interface”



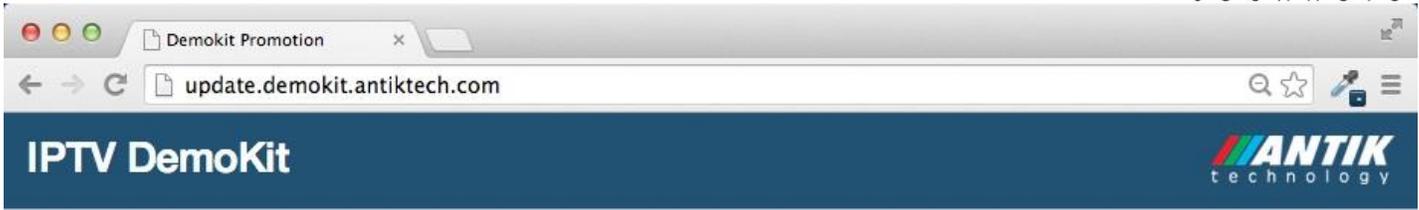
Note:

- (a) make sure server is fully started before turning STBs on.
- (b) the USB RJ-45 Ethernet Adapter needs to be connected to LAN, for Internet access and online support by Antik,
- (c) the USB-to-RS232 Debug Cable will be used later when necessary, please keep it safely.

Part #3 – Entering IPTV Demo kit (Homepage)

<http://localhost/> or <http://127.0.0.1>

This index gives access to manage Demo kit system components: IMS, VOD, Hospitality etc.



IMS - IPTV Management System

System for managing all your settopboxes. STB system management for managing channel list, streams, packages and guest list.

URL: <http://172.24.0.12:81>
<http://10.252.61.176:81>
<http://172.31.50.204:81>

Login: admin

Password: admin123

Hospitality

Hospitality - Hotel system for managing CRM: guests, orders, STBs, Billing, Messages etc.

URL: <http://172.24.0.12:96>
<http://10.252.61.176:96>
<http://172.31.50.204:96>

Login: demo@demo.com

Password: demo

VOD - Video on Demand

VOD server suite contains VOD management, scrambling, transcoding, segmentation and VOD UI.

URL: <http://172.24.0.12:5094>
<http://10.252.61.176:5094>
<http://172.31.50.204:5094>

Login: demo

Password: demo12345

Network Settings

Name	IP	MAC
eth0	172.24.0.12	74:d4:35:07:8fd4
eth1		
tap0	172.31.50.204	ba:97:8b:06:e8:bb

Reinit network interface

Contact

If you have any questions do not hesitate to contact us.

Sales team: sales@antiktech.com

Support team: support@antiktech.com

More info: www.antiktech.com

 [Download user manual](#)

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IPTV Demokit Home page

Network Settings

Name	IP	MAC
eth0	172.24.0.12	00:1d:7d:08:31:96
eth1		
eth2	172.25.0.15	00:01:0a:0b:20:03
tap0	172.31.50.202	f2:db:07:3d:0d:0d

Reinit network interface

If ETH0 adapter is not 172.24.0.12 (e.g. eth1, eth2, eth3 etc.) multicast stream is spread on the wrong network.

Use "Reinit network interface" to assign correct names of ETH from your mainboard. Press "Reinit network interface" button, reboot computer and check if ETH0 was assigned as ETH0: 172.24.0.12. You can also do it over SSH by removing or editing file:

`rm/etc/udev/rules.f/70-persistent-net.rules`

Part #4 - Operating the STB

It is possible to test:

Live Streaming (from demo HDD), Picture in Picture- see page 64 in User manual

Archive streaming (archived programs for 1 day, marked channel by yellow mark - e.g. Markiza)

Local PVR or DVR (Recording + Pause TV) – USB flash drive/HDD with min. 20 MB/s, 8GB (e.g. Patriot Xporter XT RAGE 8GB)

Time Shifting (Pause TV)

VOD

Browser (using Keyboard, best would be to use our IPTV Juice Wireless Keyboard)

Media Player and DLNA – music, video, picture

BitTorrent client – music, video, picture (not for downloading, only for viewing)

Hospitality

Hotel IPTV

EPG

PiP

Music

YouTube

Mosaic

IMS – IPTV Management System (<http://172.24.0.12:81> (user: admin, password: admin123))

Part #5 – Entering IPTV Management Server (IMS)

<http://172.24.0.12:81> (user: admin, password: admin123)

IMS short guide: brief instructions about adding channel to IMS.

How to create Packages:

1. Click on the add package write package name and save it.
2. Click on the details of the created package.
3. Choose channels which you want in the package and click add (see below).

How to add channel:

1. Click to add the channel, write channel name and save channel.
1. Find added channel in all channels and click details of the channel where you can add address of the stream (HLS/HTTP for unicast and UDP/RTP for multicast) and choose video or audio codecs.
2. Created channels must be added to the package in the menu Packages on the left side of the Channels menu.

How to add the package to the box:

1. In the STB menu find your box (for example using MAC)
2. Click on details of the box.
3. In the channel package menu on the left side find your package and click add package.

Updating the box with created channels:

After the channels are created on IMS, you need to press Menu button on remote control, go to Settings, move to “About application” and on right side click Reload Sources “Yes”. New channel is now visible in the channel list on STB.

ANTIK IPTV Server Server time: 12:45:18 Local time: 12:45:27

computers & communications admin Logout

STBs Channels EPG Mosaic Transcoders Archive VOD Statistics System log Users Server configuration

Channels by category: Add channel Change default channel order

TV Radio Cam

Packages: Packages

Receivers: Receivers

Name: String ID: EPG: Package: Adult: Graph: EPG stats: Search Clear

19 Channels (1 - 19)

ID	Title String ID	EPG	Archive	Sources	Vol.	Mute	Packages	Mosaic	Graph	EPG stats	
27	Mosaic	No EPG		rtsp://@239.1.1.26:2026_SD_100_mpeg2v, Slovak_101_mpga.	0	No	• BASIC • SD • SPORT suite	✓			Delete
30	Animal	xmi_28.stanice.sms.cz		rtsp://@239.1.1.22:3000_SD_100_mpeg2v, English_101_mpga.	0	No	• BASIC • SD • SPORT suite	✓			Delete
32	FTV	xmi_83.stanice.sms.cz		rtsp://@239.1.1.22:3004_SD_100_mpeg2v, English_101_mpga.	0	No	• BASIC • SD • SPORT suite	✓			Delete
33	Prima	xmi_4.stanice.sms.cz		rtsp://@239.1.1.22:2022_SD_100_mpeg2v, Český_101_mpga.	0	No	• BASIC • SD • SPORT suite	✓			Delete
34	3D Tile	No EPG		rtsp://@239.1.1.27:2027_HD_4113_h264, English_4352_aac.	0	No	• SPORT suite	✓			Delete
37	Discovery HD	xmi_15.stanice.sms.cz		rtsp://@239.1.1.90:2090_HD_100_h264, English_200_mpga.	0	No	• BASIC	✓			Delete
38	Eurosport HD	xmi_9.stanice.sms.cz		rtsp://@239.1.1.91:2091_HD_100_h264, English_200_mpga.	0	No	• BASIC	✓			Delete
39	BBC1 HD	xmi_65.bbc.sms.cz		hls://SportTV.com/tvtot/HD_Tennis.m3u8_HD_100_h264, audio_110_aac.	0	No	• BASIC	✓			Delete
1	STV1	xmi_10.stanice.sms.cz		rtsp://@239.1.1.1:2001_SD_100_mpeg2v, Slovensky_101_mpga.	0	No	• BASIC • SD • PREMIUM • SPORT suite	✓			Delete
2	STV2	xmi_11.stanice.sms.cz		rtsp://@239.1.1.2:2002_SD_100_mpeg2v, Slovensky_101_mpga.	0	No	• BASIC • SD • PREMIUM • SPORT	✓			Delete

IMS – channels preview

Part #6 : Setup for TV Anywhere

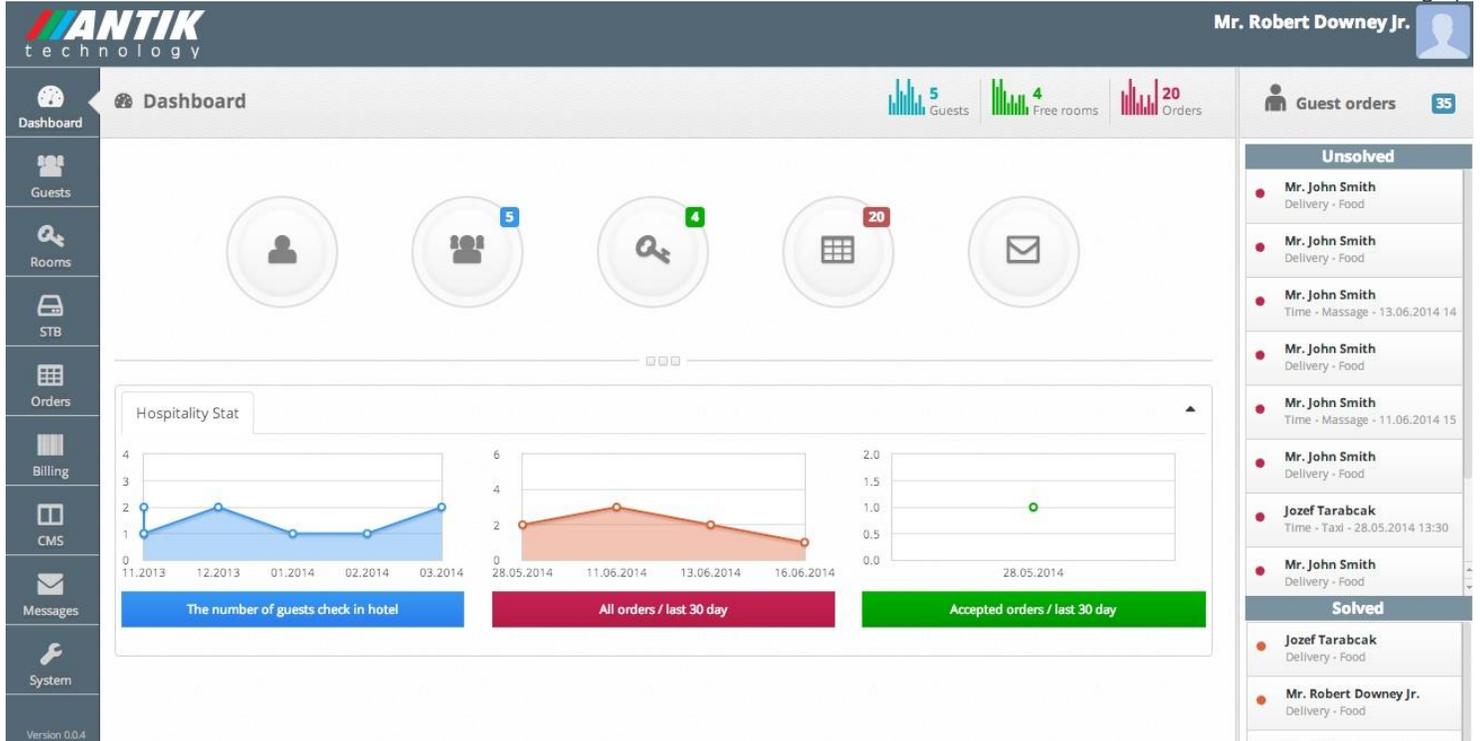
Setting up TV Anywhere in Demo Kit Version 3.0

- 1) Connect TV Anywhere (USB Dongle) and Access Point (AP) to the Demo Kit as shown in the above diagram.
- 2) IP address of AP (172.25.0.253 ;AP name: AntikTV ; password is: 8888800000)
- 3) The system will detect it, and take about 30-50 seconds to initialise the TV Anywhere dongle.
- 4) Next, setup TV Anywhere by going into [Menu]>> [Setup] >> [??] . At the TV Anywhere section, setup the login and password. (default login and password: aaaa)
- 5) Connect your Device (IOS or Android) to the Access Point . The STB has internal web server (DHCP), you will get IP Address with range 172.25.0.xx .
- 6) ... Open the page with your Connected Device, select login and password (preset login and password on STB in settings / TV anywhere). Reload actual channels and play it.

Part #7 – Hospitality Demo

Setting up access to Hospitality management (PMS) and Content management (CMS).

- 1) Connect to server (using IP 172.24.0.12:96) , Login as: demo@demo.com ; password: demo
- 2) follow hospitality management



Hospitality CMS

Use following combination of buttons to leave Hospitality and return to Main Menu:

1/Reload Hospitality Menu:
Yellow - Green - Blue - Red *

2/Exit from Hospitality:
Red - Green - Yellow - Blue



*Use Reloading of Hospitality Menu to apply the changes in settings of Hospitality GUI

Part #8 – VOD – Video On Demand

Setting up access to Video On Demand management

- 1) Connect to server (using IP 172.24.0.12:5094) , Login as: demo ; password: demo12345
- 2) follow VOD management

Movies

Search content:

ID	Title	Original title:	Length	IMDb rating:	Release:	Billing group:	Billing type:	Public:	Detail:	Delete:
66	Stealth	Stealth	121	5.0	2005-07-29	Basic	Free	No	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
63	A Bug's Life	A Bug's Life	95	7.2	1998-11-25	Basic	Free	No	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
62	Anchorman 2: The Legend Continues	Anchorman 2: The Legend Continues	119	6.5	2013-12-18	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
60	What Maisie Knew	What Maisie Knew	99	7.5	2013-05-03	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
59	Cars of the Revolution	Cars of the Revolution	115	8.0	2008-10-24	Basic	Free	No	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
58	Step by Step	Step by Step	30	6.4	1991-09-20	Basic	Free	No	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
57	'Gangnam Style' by Psy	'Gangnam Style' by Psy	12	6.7	2012-10-16	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
56	Puss in Boots	Puss in Boots	90	6.7	2011-10-28	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
55	Wreck-It Ralph	Wreck-It Ralph	108	7.8	2012-11-02	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
54	Kocur v cizmach	Puss in Boots	90	6.7	2011-10-28	Basic	Pay per minute	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
53	Medzi nami zvieratami	Barnyard	90	5.6	2006-08-04	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
52	The Social Network	The Social Network	120	7.8	2010-10-01	Basic	Pay per view	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
51	Sea Monsters: A Prehistoric Adventure	Sea Monsters: A Prehistoric Adventure	40	7.1	2007-10-05	Pokus	Pay per view	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
50	Cars 2	Cars 2	106	6.4	2011-06-24	Basic	Free	No	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>
49	The Shawshank Redemption	The Shawshank Redemption	142	9.3	1994-10-14	Basic	Free	Yes	<input type="button" value="Detail"/>	<input type="button" value="Delete"/>

< 1 2 3 4 >

Part #9 – Logging to server

Server IP: 172.24.0.12

SSH access: `ssh root@172.24.0.12 ; password 'ok'`

Part #10 – Update EPG

EPG are update every day depend of /etc/crontab parameters getting up access to Hospitality management (PMS) and Content management (CMS).

You can also manually start EPG update running command:

```
cd /opt/iptvmaster/applications/epg/xmltv && ./download.sh && ./start.sh
```

EPG are preset as daily automatic update (preset in crontab)

Part #11 – Troubleshooting & FAQ

Q: Channel list not visible/empty.

A: Make sure server is started and restart the STB = disconnect and connect again the power supply.

Q: If I connect the STB to public internet, will it work?

A: The STB is prepared to work on public IP address, too. After connecting the STB, it is needed to get right channel list, it means to - "Reload sources" (press Menu button on remote control, go to Settings, move to "About application" and on right side click Reload Sources "Yes". New channel is now visible in the channel list on STB). The STB will be then connected to Antik Demo server, where you can watch our demo channel package.

If any additional question, please contact demokit@antiktech.com ; for online support by SKYPE: [antikdemokit](https://www.skype.com/partners/antikdemokit)