

# IPTV MULTI VIEWER USER MANUAL

2015/05 v2.0







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## **Chapter I Overview**

## 1.1 System introduction

ANTIK MultiViewer can receive TSoverIP stream via Ethernet adapter in real time, then decode and display them. It can also monitor audio and video alarms, display monitoring results on monitoring wall.

## 1.2 Screenshots of Mornitoring Wall

#### **Commercial Version:**



#### DEMO version with watermark:



## **Chapter II Running Environment**

ANTIK could provide full package including hardware and software license. MVS-200D is model of Multiviewer server, which handle multiple services with customized license. Also customer could build their own system to meet BOM configuration as below.

## 2.1 MVS-200D Hardware & License Package

Model	Description
HawkEye DG MVS-200	2RU Industrial Chassis; CPU: Intel Xeon E5-2420 *2 RAM: 12GB DDR3 1333MHz GigaE NIC port x2 HDMI output x2 redundant power supplyŸ
BMV-16	Support 16 CH Service decoding license
BMV-32	Support 32 CH Service decoding license
BMV-48	Support 48 CH Service decoding license
BMV-64	Support 64 CH Service decoding license
BMV-80	Support 80 CH Service decoding license
BMV-96	Support 96 CH Service decoding license
BMV-112	Support 112 CH Service decoding license
BMV-128	Support 128 CH Service decoding license
BMV-ULT	Support unlimited Service decoding license

\* Order would be delivered with Software plus USB Key;

\*No limitation of SD or HD service counting;

\*License might be customized according to request;

\*Hardware might be changed without notice.

## 2.2 Benchmark

		MVS-200	D	
Service Type	MPEG2 SD	MPEG2 HD	H.264/AVC SD	H.264/AVC HD
Max. amount	100CH	30CH	50CH	12CH



## 2.3 BOM for Multiviewer Hardware

Source	HW Configuration	OS & Database
<30CH	CPU: 1.4GHz or advanced Memory: 2GB or more HDD: 30GB or more Graphic Card: support DirectX 9.0c or advanced	-Microsoft Windows 7 Ultimate 32bit/64bit -Microsoft Windows Server 2008 R2(64bit) -MySQL (Alarm log record)
31~80CH	CPU: Intel Xeon E5-2420 Memory: 6GB DDR3 1333MHz HDD1TB Graphic Card: NVIDIA GeForce GT210 GDDR3 1GB 64bit	-Microsoft Windows 7 Ultimate 32bit/64bit -Microsoft Windows Server 2008 R2(64bit) -MySQL (Alarm log record)
81~160CH	CPU: Dual Intel Xeon E5-2630 @2.3GHz HDD: 1TB Memory: 12GB DDR3 GraphicCard: Gigabyte GV-N210SL-1GI (GeForce GT210 1GB/64bit)	-Microsoft Windows 7 Ultimate 32bit/64bit -Microsoft Windows Server 2008 R2(64bit) -MySQL (Alarm log record)

Source counted as:

- MPEG-2 SD 3.5Mbps 720\*576
- MPEG-2 HD 18Mbps 1920\*1280
- H.264 HD 8Mbps 1920\*1280

## **Chapter III Installation Instruction**

### 3.1 Installation of MySQL Database

#### Please purchase MySQL directly for any commercial use.

Notices for installation of MySQL database:

**Step-1:** Select third item **[**Skip Sign-Up **]** from the following figure:

BySQL. com Sign Up - Setup Tizard	×
MySQL.com Sign-Up	
Login or create a new MySQL.com account.	
Please log in or select the option to create a new account.	
Create a new free MySQL.com account	
If you do not yet have a MySQL.com account, select this option and complete the following three steps.	
C Login to MySQL.com	
Select this option if you already have a MySQL.com account. Please specify your login information below.	
Email address:	
Password:	
Skip Sign-Up	
Next >	Cancel

**Step-2:** Select third item 【Manual Selected...<sup>[2]</sup> from the following figure and select "gb2312" from "Character Set".

SQL Server Instance Configuration Tizard	×
<b>MySQL Server Instance Configuration</b> Configure the MySQL Server 5.0 server instance.	$\bigcirc$
Please select the default character set.	
🔿 Standard Character Set	
Hello! Makes Latin1 the default charset. This character set is suited for English and other West European languages.	
O Best Support For Multilingualism	<u>k</u> ₹
Make UTF8 the default character set. This is the recommended character set for storing text in many different languages.	.0
• Manual Selected Default Character Set / Collation	
Please specify the character set to use.	
Character Set: 102312	
< Back Next >	Cancel

**Step-3:** Enter "root" <sup>[I]</sup>New root password ] in the following figure, enter "root" after the below "Confirm"



and check the below "Enable root access from remote machines"

∎ySQL Server I	nstance Configurat	ion Tizard	x
MySQL Server	Instance Configuration	I	
Configure the I	MySQL Server 5.0 server in	nstance.	
Please set the	security options.		
🔽 Modify Se	curity Settings		
	New root password:	***	Enter the root password.
root	Confirm:	****	Retype the password.
		🔽 Enable root a	ccess from remote machines
Create An /	Anonymous Account This option will create an (	anonymous accour	t on this server. Please
	note that this can lead to	an insecure system	n.
		< Back	Next > Cancel

## 3.2 Installation of ANTIK MultiViewer Software

To double click **MultiViewer\_Setup\_VX.X.X\_x64.exe** and click step by step:

Installer La	nguage
	Please select a language.
	English 🔹
	OK Cancel
O M. 107- 215-1-	
MultiViewer 2.1 Setup	
	Completing the ANTIK MultiViewer 2.1 Setup Wizard
	MultiViewer 2.1.
	It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
	Click Next to continue.
	Next > Cancel

icense Agreement		T
Please review the license terms befor	re installing ANTIK MultiViewer 2.1.	
Press Page Down to see the rest of t	the agreement.	
SUETOP ENDUSER LICENSE AGREE PLEASE READ THIS SOFTWARE LICE OR USING THE SOFTWARE.	Ment Ense agreement carefully before I	
BY CLICKING ON THE "I Agree" BUTT PRODUCT, INSTALL OR USING THIS BY THIS AGREEMENT. IF YOU DO NO AGREEMENT, CLICK THE "Cancel" BL CONTINUE, IF YOU INSTALL THE SO LICENSE ARE FULLY ACCEPTED BY Y CUSTOMER SHALL NOT: COPY, IN W DOCUMENTATION; MODIFY THE SO	TON, OPENING THE PACKAGE, DOWNLO S PRODUCT, YOU ARE CONSENTING TO OT AGREE TO ALL OF THE TERMS OF TH JITTON AND THE INSTALLATION PROCES OFTWARE, THE TERMS AND CONDITION (OU. WHOLE OR IN PART, SOFTWARE OR FTWARE; REVERSE COMPILE OR REVER	ADDING THE BE BOUND IS SS WILL NOT S OF THIS
If you accept the terms of the agree	ment, click I Agree to continue. You mus	it accept the
agreement to install Bluetop MultiViev	NG 2.1.	

MultiViewer 2.1 Setup	O X
Choose Install Location	100
Choose the folder in which to install ANTIK MultiViewer 2.1.	
Setup will install ANTIK MultiViewer 2.1 in the following folder. To inst click Browse and select another folder. Click Install to start the installa	all in a different folder, tion.
Destination Folder	
C: Program Files (ANDRCM.db/Newer	Browse
Space required: 103.1MB	
Space available: 19.3GB	
Vulsoft Install System v2:37	



Click finish to run multiviewer software.

MultiViewer 2.1 Setup	
	Completing the ANTIK MultiViewer 2.1 Setup Wizard MultiViewer 2.1 has been installed on your computer. Click Finish to close this wizard.
	<gadk cancel<="" enish="" td=""></gadk>

Tick the right networks and click Allow access to continue.

Indows Firewa	I has blocked som	e features of MultiViewer on all public and private networks.
. 10	Name:	MultiViewer
	Publisher:	ANTIK Technology
	Path:	C:\program files\ANTIK\multiviewer\multiviewer.exe
low MultiViewe	r to communicate	on these networks:
Private ne	tworks, such as r	ny home ar work network
Public net	works, such as th	ose in airports and coffee shops (not recommended

A shortcut would be display on your desktop automatically.



Double click and run ANTIK MultiViewer Software for the first time, the following dialog pops up.

MultiViewer	×
Could not find license file.	
d3c3-afe8-fd5b-5b01-3cba-1192-f0ba-6302	
ОК	

Please send back the contents in the red box for license activation to <u>info@antiktech.com</u> or your supplier, we will provide software authorization file. After receiving the software authorization file 'license. lic', please copy this file to the MultiViewer\_Setup\_VX.X.X\_x64.exe folder and double click shortcut icon to run the software.

	BERBER DURING
🚱 🔵 🗢 📕 🕨 Computer	Local Disk (C:)      Program Files      ANTIK      MultiViewer
Organize 👻 Include in li	ibrary 🕶 Share with 🕶 Burn New folder
	MultiViewer
	MultiViewer is running.
	ОК
	<u></u>

### 3.3 Installation of SP

If the software shipped along with SP (software pack), please copy the SP file into your installation folder and double click and run before use Multiviewer.





## 3.4 Installation of DEMO

ANTIK provides DEMO version for better customer experience and trial test. Please ask for demo version and install steps as same as commercial version. The only difference is the watermark and limitation of trial period (max. 30CH) and amount of service (max. 30CH)

Destinat	ion Folder Access Der	nied		X
	You'll need to prov	ide administrator perm	nission to copy to	this folder
-		MultiViewer Date created: 2/1	.2/2015 11:25 AM	
		Continue	<u>S</u> kip	Cancel

Click Continue and copy License.lic to installation path:

	n Rum New folder			
😤 Favorites	Name	Date modified	Туре	Size
Cesktop	(iii) general	11/4/2013 2:54 PM	XML Document	5.8
🛓 Downloads	8 help_ch	11/4/2013 2:54 PM	Compiled HTML	817.9
1 Recent Places	2 help_en	11/4/2013 2:54 PM	Compiled HTML	817 (
	ang_ch	2/12/2015 11:25 AM	Configuration sett	30 8
📑 Libraries	a Lang_en	2/12/2015 11:25 AM	Configuration sett	12.)
Documents	S libfreetype-6.dll	11/4/2013 2:54 PM	Application extens	2,098.8
Music	libmpeg2-0.dll	11/4/2013 2:54 PM	Application extens	107 8
E Pictures	S libmySQL.dll	11/4/2013 2:54 PM	Application extens	2,304 )
Videos	License.lic	2/12/2015 11:25 AM	LIC File	1.6
	The stants of a second term	1114/2012 2:54 254	neoncemes.co.	0.99

Double Click the shortcut on desktop to run Multiviewer

License		
1ded-ee22-73	d6-d7a8-611c-1156-6be1-837c	

## 3.5 Un-installation of Multiviewer

Control Panel----Programs and Features-----ANTIK Multiviewer 2.1.x.x

	a contract particular		
🚱 🔾 🗢 🕅 🕨 Control Panel	All Control Panel Items      Programs and Features	✓ 4y Search Programs	and Features 🔎
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and	then click Uninstall, Change, or Repai	r.
off	Organize 👻 Uninstall/Change		= • 🕢
	Name	Publisher	Installed On Size
	Adobe Flash Player 16 ActiveX Adobe Reader XI (11.0.10) Alipay Cert Component 2.0.0.1	Adobe Systems Incorporated Adobe Systems Incorporated Alipay.com Co., Ltd.	1/19/2015 1/19/2015 1/30/2015
	ANTIK MultiViewer 2.1	ANTIK Technology Co., Ltd.	2/12/2015
	ANTIK MultiViewer 2.1, uninstall?	es No	
Click <b>Yes</b> to continue			
	ANTIK MultiViewer 2.1 Uninstall     ANTIK MultiViewer 2.1		
		ОК	

Click OK and remove successfully



## 4.1 Main User Interface

The main interface of the ANTIK MultiViewer Software includes tool bar, channel information, playing window and system information. The software main interface is shown as the figure 4-1:





(1) Monitor: This button is to start monitor after configuration



2 Configure: This button is most important function to configure the stream source



③ Window: This button is to start window(screen) layout, where provide template and customization



(4) Query: This button is to query alarm history



5 Language: Multiviewer provide English and Chinese switch



6 Export/Import: Save and load the configuration history

	Free ords -Chief Sugarable			
THE WORLD				
The second second				
Theory Wines				

(7) Help: User Manual and software version information

bout ANTIK MultiViewer	×
ANTIK MultiViewer Demo Version Version 2.0.16 Current License: 30 License to::2015-03-14 Copyright (C) 2013 ANTIK Technology All rights reserved.	OK

4.2 Tools bar (play, pause, full screen)



Click button, the play window will display the program image and monitoring starts, shown as below. To double click the program image in playing, this program will zoom out to the full playing window. To double click it again, the image will restore to the original size. To click the program image in playing, you can play accompanied sound of this program.





Analysis Play Stop	Full Screen Screen Contigure 15 Configure Service Contigure Clear St	atus Into Alam Query System Configure Configure Export	
By IP Port     Charmel 1     Charmel 1     Constant 1 (225.00.11/234)     B ⊂ Charmel 1     Constant 1	Channel 1/235. 0. 0. 1	CCTV 4/235. 0. 0. 2	
	2013.05.22.13.00.22Start Mandanina	Status Info	
	2013-05-22 11:00:23Staft Monitoring 2013-05-22 11:00:23Step Monitoring 2013-05-22 10:58:57Service Information Analyzing		



[Pause] : To click button, the software will not decode the program and pause monitoring.



**[**Full Screen **]** To click , the playing window will zoom out to the full screen. Double click the window will restore to original size, shown as below:

	88188 CCTV-4 \$9920:00##	
Channel 1/235.0.0.1	CCTV 4/235. 0. 0. 2	

Double click program image under full screen state, the program will display on the full screen.

## 4.3 Configure

Launching the ANTIK MultiViewer, user needs to configure and run monitoring via the following steps and instructions of each functional tab.

### 4.3.1 Input Configuration

Click Configure, setup input sourcing step by step and then click Analyse All, the software will decode and all feeding streams.

Input Name	Input-2	-
Input Type	TS over UDP	•
Adapter	Auto	•
IP Address		
Port	0	



\*Note:

*IP addresses and port number: enter the IP address and port number of code stream. The multicast addresses range from 224.0.0.0 to 239.255.255* 

<u>Step-1</u>: Input signal name, user can input a text to mark or name the stream. The default is Input-x and user can customize signal name.

**Step-2:** Input type, user can select the type of feeding streams from TSoverUDP, TSoverRTP, TSoverCMMB, RTSP streaming, RTMP streaming, Http Streaming.



**<u>Step-3</u>**: Select the right NIC as Adapter:

Allocate network adapter: when two Ethernet interfaces are available, you can receive data by using two Ethernet interfaces.



**Step-4**: Analyse service:select one service to click Analyse Service, or select All to Analyze all input services. Waiting for the process bar and a pop-up window will indicate how many service approched.

Name	Туре	URL	Adapter	Add
CCTV	TSoverUDP	udp://192.168.0.121:10000	Auto	
Input-1	TSoverUDP	udp://192.168.0.232:10000	Auto	Edit
				Delete
				Analyse Servic
				Analyse All

Name	Туре	URL	Adapter	Add
CNN	TSoverUDP	udp://192.168.0.121:10000	Auto	r
Input-1	TSoverUDP	udp://192.168.0.232:10000	Auto	Edit
Input-2	TSoverUDP	udp://235.0.0.11:1234	Auto	
		MultiViewer	×	Delete
		OK		Analyse All

**<u>Step-5</u>**: Click Edit button to modify the selected service information and click OK.

nput Informatio	n
Input Name	сии
Input Type	TS over UDP 🔹
Adapter	Auto 👻
IP Address	192.168.0.121
Port	10000



## 4.3.2 Service Configuration

rvice Config	uration					
Name	Service Name	Video PID	Audio PID	Video Type	Audio Type	Audio Track
Input-2	shopping	0xE39	0xE3A	MPEG2	MP3	All
Input-2	Military	0xE2F	0xE30	MPEG2	MP3	All
Input-2	CCTV	0xE43	0xE44	MPEG2	MP3	All
Input-2	HB-Sat	0xE25	0xE26	MPEG2	MP3	All
Input-2	CCTV-8HD	0xE1B	0xE1C	H264	AC3	All
			Add	Edit	Delete	Close

Modify Service		×	◆ Inputs
Service Information			CNN(udp://192.168.0.121:100
Name	Input-2 🔹		Input-2(udp://235.0.0.11:1234 hd419
Service Name	Military		sd419
Service Type	TV		CCTV8
Video PID	0xE2F 🔹		▲ APID 0xE1C(3612)-AC ▲ CCTVZQ
Audio PID	0xE30 -		VPID 0xE43(3651)-MP
Video Type	MPEG2		∎ 🛧 YouShop
Audio Type	MP3		VPID 0xE39(3641)-MP APID 0xE3A(3642)-MF
Audio Track	All		■···◆ Military ····◆ VPID 0xE2F(3631)-MP
	Left		APID 0xE30(3632)-MP
ОК	Cancer		<ul> <li>VPID 0xE25(3621)-MP</li> <li>APID 0xE26(3622)-MP</li> </ul>

#### 4.3.3 Alarm Threshold Configuration

Threshold Config	guration							
Service Name	#T#V#1		🔲 Ale	ert		🔽 Apply	to al	I
Monitor Preferenc	es							
Select .								
V Service Lost	Duration 5	s	V Dec	code Fail		Duration	5	s
Video Lost	Duration 5	s	🔽 Au	dio Lost		Duration	5	5
V Freeze	Duration 5	s	🗸 Bla	ck		Duration	5	s
Color Bar	Duration 5	s						
🔲 Audio High	Duration 5	s	Threshold	-20	dBFS			
Audio Low	Duration 5	s	Threshold	-90	dBFS			
Video Preferences								
Freeze and Si	ence							
		_				_		
			Default		ОК		Canc	el

**Service lost:** if the feeding streaming receiving rate keeps zero for 3s, it will generate signal break alarm. When the signals break, no alarms are generated.

**Video lost:** when the code rate of the service video PID keeps zero for a period (namely user-set "alarm time" parameter) in the network code stream receiving, it will generate video loss warming. When a video is lost, the system will not generate static frame, black image, color stripe and decoding failure alarm.

Audio lost: when the code rate of the service audio PID keeps zero for a period (namely user-set "alarm time" parameter) in the network code stream receiving, it will generate audio loss warming. When an audio is lost, the system will not generate high volume, low volume and decoding failure alarm.

**Freeze:** when the program video image keeps static for a period (namely user-set "alarm time" parameter), it will generate the freeze alarm.

**Black:** when the program video image keeps black for a period (namely user-set "alarm time" parameter), it will generate the black image alarm.

**Color bar:** when the program video image keeps color stripe for a period (namely user-set "alarm time" parameter), it will generate the color stripe alarm.

Audio High: when the program volume keeps higher than a threshold for a period (namely user-set

"alarm time" parameter), it will generate the high volume alarm.

**Audio Low:** when the program volume keeps lower than a threshold for a period (namely user-set "alarm time" parameter), it will generate the low volume alarm.

**Decode fail:** when the video keeps for 10s or the audio decoder cannot decode the input data, it will generate decoding failure alarm. When the input code stream is the scrambled stream or includes incorrect format, it will generate decoding failure alarm.

**Video Scrambled**: when feeding stream are encrypted, the ANTIK Multiviewer software couldn't decode.

**Audio Scrambled**: when feeding stream are encrypted, the ANTIK Multiviewer software couldn't decode.

#### 4.3.4 Window Configuration

A user can set main screen and save screen image division mode. Besides common audio and video program, the ANTIK MultiViewer Software can display analog clock, digital clock, static image and self-defined text. The fixed templates include single image, two images, four images, nine images, twelve images, thirteen images, sixteen images, twenty images, twenty five images, thirty six images. To select a template from the right drop-down of the "Select main screen template", the following window will display schematic diagram of this template.

/indow Configuration			-		X
CCTV(udp://192.168.0.121:10000)	Select Template(1st Monitor)	1_Windows 🔻	Window Type	Empty -	]
	Sub Monitor Configuration Select Sub Monitor Select Template(2nd Monitor)				
4 Þ			Auto Set	ОК Са	ncel

Drag the input service directly into rectangler, or select service type to set

💑 Bluetop MultiViewer Demo Version		A COLUMN TO A COLUMN		- 0 X
Monitor Configure Window Query				
► 0.20				
Inputs     CCTV(udp://192.168.0.121:100     CCTV(udp://192.168.0.121:10000)	Select Template(1st Monitor) 4_Windows	▼ Window Type	Empty - Service	
□	/(udp://192.168.0.121:10		Digital Clock Picture Round Robin Audio Spectrum Empty	中。半简
	1 (udp://192.	168.0.232:11		
	Sub Monitor Configuration			
	Select Template(2nd Monitor)	*		
< +				
		Auto Set	OK Cancel	
CPU Usage: 0%	Channel Numez	Program	n Isune 0/0	2015-02-12 13:33:2
🚱 🗳 🙋 📜 💿 🚘 🗔 😒	🗿 🚝 🚺 📥		сн 🛛 🛱 🖌 (	🔁 😤 🏴 🛱 🛱 🍆 1:33 PM 2/12/2015

Also support real-time digital or analog clock to window by selecting the digital or analog clock type.

Inputs CNN(udp://192.168.0.121:10000)	Select Template(1st	Monitor) 9_Win	dows 👻	
Input-1(udp://192.168.0.232:10000) Input-2(udp://235.0.0.11:1234) hd419 sd419	Picture	Military	Digital Clock	
CCTV8	CCTVZQ	CCTV8	Military	
I 🐲 HB	НВ	НВ	YouShop	
	Sub Monitor Config Select Sub Monitor Select Template(2nd	Juration	<b>•</b>	

Also support picture shown in window by selecting picture type (bmp, jpg, jpeg, gif and png image)



		🚜 Open		×
		Look in:	Pictures	- 🥝 🌶 🗁 🗔 -
		Recent Places		
			Sample Pictures	
Window Type	Picture •	Libraries		
Select Pictrue	Browse	Computer		
PIC_PATH		The work	File name: Files of type:	Open     Cancel

Round Roubin option is also available by selecting service and set thereshold between 5 to 3600secs

hd419 CCTV8 CCTVZQ HB	>>	sd419 Military YouShop			
	<<		Picture	Military	Digital Clock
		Cycle	CCTVZQ	CCTV8	Military
		300 s Apply	НВ	HB	Round Robin

Split the decoding impages into two different monitors by selecting or dragging services into main monitor and sub monitor (it only enable when server connect with two monitors)

Sub Monitor Configuration	
Select Sub Monitor	<b></b>
Select Template(2nd Monitor)	

#### 4.3.5 Backstage Monitor Configuration

This option enabled for some service which are not needed to be decoded on window monitor.

services without monitor	Services monitored backs	tage
	>	

#### 4.3.6 Display Configuration

#### View Preferrence Tab:

There are two options: Stretch and orignal resolution,

- stretch service to fit 16:9
- Original resolution: use service orginal resolution, if 4:3 would have black aspect border corlor, and set edge color in color set tab





#### Caption Tab:

Set service name display color, style, font as preferrence

- > Caption scroll: the service name text would scrool when tick this box;
- Caption height: set the height by pixel or proportion;
- Caption font: set the color ot service name or just name;

18: A		
New Preferences Caption	Audio Bar Color Set	
Caption Scroll Caption Height Set by Pixel	Pixel	
Caption Font		
Service Name	Name   Service Name/Name	
<u>8</u>		

View Preferences Caption Audio Bar Color Set	Color
Caption Scroll Caption Height Set by Pixel Set by Proportion 10 %	Basic colors:
Caption Font Color	Custom colors:

#### Audio Bar Tab

This tab provide options for audio bar and 5.1 Dobly setting:

- > Audio bar postion: set audiobar to bothside, or both on left side, both on right side
- Audio bar direction: set audiobar to horizion or vertical
- > Audio bar width: default as 8 pixel, also set 0 to hide
- Mono Service: some service contain two audio PIDs, set decode type by ticking

> 5.1 channel: set the posistion of 5.1 dobly

View Preferences Caption Audio Bar Color Set	
Audio Bar Position(TV) Separately on Both Sides	
Audio Bar Direction Both on Left Side Both on Right Side	
Audio Bar Width 8 Pixel	
Mono Service	
Show Double Channel           Image: Show Single Channel	
5.1 Channel	
✓ Front Left ✓ Center ✓ Front Right	
Surround Left 🛛 Surround Right 📝 Subwoofer	
OK Cancel Apply He	elo
Display Contiguration	~
View Preferences Caption Audio Bar Color Set	
View Preferences     Caption     Audio Bar     Color Set       Audio Bar Position(TV)     Separately on Both Sides <ul> <li>✓</li> <li>✓</li></ul>	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides <ul> <li>Audio Bar Direction</li> <li>Horizon</li> <li>Horizon</li> <li>Horizon</li> </ul>	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides           Audio Bar Direction       Horizon           Audio Bar Width       Vertical	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides       •         Audio Bar Direction       Horizon       •         Audio Bar Width       Vertical       •	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides       •         Audio Bar Direction       Horizon       •         Audio Bar Width       Vertical       •         Mono Service       Image: Show Double Channel       Image: Show Single Channel	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides       •         Audio Bar Direction       Horizon       •         Audio Bar Width       Vertical       •         Mono Service       •       •         •       •       •       •         5.1 Channel       •       •	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides <ul> <li>Audio Bar Direction</li> <li>Horizon</li> <li>Audio Bar Width</li> <li>Vertical</li> <li>Mono Service</li> <li>Show Double Channel</li> <li>Show Single Channel</li> <li>5.1 Channel</li> <li>I Center</li> <li>I Front Left</li> <li>I Center</li> <li>I Front Right</li> </ul>	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides           Audio Bar Direction       Horizon           Audio Bar Width       Horizon           Mono Service <ul> <li>Show Double Channel</li> <li>Show Single Channel</li> <li> </li></ul> <li> <li> <li> <li> <li> <li> <li> </li> <li> <li> </li> <li> </li> <li> </li> <li> </li> <li> </li> <li> </li> </li></li></li></li></li></li></li>	
View Preferences       Caption       Audio Bar       Color Set         Audio Bar Position(TV)       Separately on Both Sides           Audio Bar Direction       Horizon           Audio Bar Width       Vertical           Mono Service <ul> <li>Show Double Channel</li> <li>Show Single Channel</li> <li> </li></ul> <li> <li> <li></li></li></li>	





#### Color Set Tab:

This tab support color setting for decoding service on window:

- Background: default as black
- Edge: default as grey
- Text:default as blue
- Grid: default as green

iew Preferences   Caption   Audio	Bar Color Set
Color Set	Color
Backgrand	Basic colors:
Edge Color	
Text Color	
Grid Color	
	<u>C</u> ustom colors:
	OK Cancel

#### 4.3.7 System Configuration

#### Startup Settings Tab

This tab provide customized launching style of software:

- Auto Start
- Auto Monitor
- Auto Fullscreen
- User Name and Password

tartup Settings	Warning Settings	Advanced Settings
Auto Star	t Software	User Name(Windows Login):
🔲 Auto Star	t Monitor	Password(Windows Login):
Auto Fulls	screen	

#### Alarm Settings Tab

This tab provide alarm log interface with SNMP or HTTP to 3<sup>rd</sup> party

- SNMP trap
- ➢ HTTP

Startup Settings	Warning Settings	Advanced Settings				
SNMP Setti	ngs Start SNMP					
SNMP T	rap IP:	6 K 85				
SNMP T	rap Port: 0					
HTTP Settin	ngs Start HTTP					
HTTP U	RL:					
			-		2	
		ОК		Cancel	Apply	Help

#### Advanced Settings Tab

This functional tab provide H.264 format service's decode efficiency in order to save CPU capacity:

- > Auto---enable this option would decode by original stream resolution
- > Efficient---enable this option would decode by frame extracting
- > Balanced---enable this option would decode by balanced frame extracting

tartup Settings	Warning Setting	s Advanced Settings	
H264 Dec	ode Auto	•	
	Efficien Balance		



4.4.1 Customize Window Template

Layout Tool: This tool could support draw window much more easier and flexiable.

Customize Window Template			x
Rectangle Align Config Edit			
│□ ×   ⊫ 릑 〒 些 回   ♡			
Select Window Template			
<b>•</b>			
Template Name			
Custom Template	Customize Window Template		
Save	Row 4		
Show Grid	Coloumn 4		
Config Grid	OK Cancel		
Del Template			
		Clos	e

The self-defined template supports to save five self-defined templates. A user can draw the image template at will on demand. Select a customize template from the right drop-down of the "Select customize template", set grid's row and column and shown as below:

Row 4	Coloumn 4
ОК	Cancel

Click to define rectangular:

Customize Window Template			
Rectangle Align Config Edit			
│□× ⊫ ╡Ŧ些回 ♡			
Select Window Template			
Custom Templat 🔻			
Template Name			
Custom Template	I		
Save			
Jave			
Show Grid			
Config Grid			
Clear All			
		2	
Del Template			
			Close
			ciose

To click butotn, you can start to draw a template. To click and drag the mouse, you can draw the image rectangle. You can draw at most 36 images. to click "ok" button, you can draw multi-image self-defined template.

To click button, the customized template would be saved and auto shown in window configuration:

Inputs	Select Template(1st Monitor)	4_Windows
CCTV(udp://192.168.0.121:10000)		1_Windows
Input-1(udp://192.168.0.232:10000)		4_Windows
		6_Windows
		9_Windows
		10_Windows
		12_Windows
		13_Windows
		16_Windows
		20_Windows
		25_Windows
		30_Windows

#### 4.5 Query

#### 4.5.1 Alarm Query

Click Query button and search the alarm by service, name, in a certain period time, shown as below:





Name	All Inputs  All Services		•	5	itart Time 2	ne 2015-02-12 15:10:36 🗐▼		
Service			•	End Time 2015-02-12 15:10:30				
Hom	e ][	Pre	Next	End		Qu	Jery	
S <mark>tart</mark> Time		Input	Service	Message	Threshold	Cleared	Duration	
				m				

#### 4.6 Import/Export

Import/export page is designed for saving "basic configuration", "monitor configuration" into XML files, or import/load these configurations from XML file, shown as below:

port Configuration			Annual of Annual States	×
t				
Option	Basic Conf	iguration		•
File Path				
Include dis	play and syste	em c <mark>on</mark> figurati	on.	

💰 Open				×
Look in:	Diti Viewer		G 👌 📂 🗔 •	
(Pa)	Name	*	Date modified	Туре
	🌡 log		2/12/2015 12:06 PM	File folder
Recent Places	🔮 general		2/12/2015 1:49 PM	XML Docu
	monitor		2/12/2015 2:57 PM	XML Doci
Desktop				
Libraries				
Computer				
	200			
Network	•			,
	File <u>n</u> ame:	general	<u> </u>	Open
	Files of type:	XML Files (* xml)	-	Cancel
Export C	onfiguration			
	Option	Basic Configuration		
	File Path	Monitor Configuration		
	Include dis	olay and system configuration.		
	1			2.12
	_	OK	7	
	L			
T. Source				X
au Save As				
Save jr	n: 📙 MultiViewer	*	G 🕫 🖻 🛄 🕇	
C.L	Name		Date modified	Туре
Recent Places	log		2/12/2015 12:06 PM 2/12/2015 1:49 PM	File folder
	monitor		2/12/2015 2:57 PM	XML Docu
Desktop				
A				
Libraries				
Computer				
	500		,	
Network	•			
	File <u>n</u> ame:	general		Save
	Save as type:	XML Files (*xml)	•	Cancel



## **Chapter V Radio Program Monitoring**

## 5.1 Radio program monitoring

ANTIK MultiViewer Software also supports radio program monitoring. When "Analyze All", the MultiViewer Software will automatically analyze whether the program is a radio program in the stream. For a radio program, the software will display left and right volume bar and can monitor the audio loss, high volume and low volume, shown as below:



## **Chapter VI Troubleshooting**

Error Pop-Up Window or Message	Solution	
MultiViewer.exe - System Error  The program can't start because avcodec-55.dll is missing from your computer. Try reinstalling the program to fix this problem.  OK	Installation not successful, please uninstall the software and reinstall.	
Got 0 services	No valid Video PID or Audio PID detected from feeding stream	
	Seriously Mosaic might be caused by CPU capacity overloaded, check the hardware configuration of Mosaic server	
Input-2/hd419	Black window might be caused by encrypted stream, please confirm the stream is free or not	
Error Message: "Cannot connect to database"	Please refer MySQL database installation steps	
Error Message: "Invalid License"	Please contact ANTIK Technology or reseller to renew the license file.	

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