

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	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-200D				
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.	
C 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:	
C Skip Sign-Up	
Next > Canc	el

Step-2: Select third item 【Manual Selected...² from the following figure and select "gb2312" from "Character Set".

ySQL Server Instance Configuration Tizard	×
MySQL Server Instance Configuration Configure the MySQL Server 5.0 server instance.	0
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	2
Make UTF8 the default character set. This is the recommended character set for storing text in many different languages.	
• Manual Selected Default Character Set / Collation	
Please specify the character set to use.	
Character Set: 102312	
< Back Next >	Cancel

Step-3: Enter "root" ^[I]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	ì	
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 A	Anonymous Account		
	This option will create an note that this can lead to		
		< 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 Lar	nguage 📃 📉	1
		Please select a language.	
		English •	
		OK Cancel	
MultiViewer 2.1 Se	tup		
		Completing the ANTIK 2.1 Setup Wizard This wizard will guide you through the in MultiViewer 2.1. It is recommended that you close all oth before starting Setup. This will make it p relevant system files without having to computer. Click Next to continue.	nstallation of ANTIK her applications possible to update
		Next	Cancel

License Agreement Please review the license terms before installing ANTIK MultiViewer 2.1. Press Page Down to see the rest of the agreement. LICENSE AGREEMENT PLEASE READ THIS SOFTWARE LICENSE AGREEMENT CAREFULLY BEFORE INSTALLING OR USING THE SOFTWARE. BY CLICKING ON THE 'I Agree' BUTTON, OPENING THE PACKAGE, DOWNLOADING THE PRODUCT, INSTALL OR USING THIS PRODUCT, YOU ARE CONSENTING TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, CLICK THE 'Cancel' BUTTON AND THE INSTALLATION PROCESS WILL NOT CONTINUE, IF YOU INSTALL THE SOFTWARE, THE TERMS AND CONDITIONS OF THIS LICENSE ARE FULLY ACCEPTED BY YOU. CUSTOMER SHALL NOT: COPY, IN WHOLE OR IN PART, SOFTWARE OR DOCUMENTATION; MODIFY THE SOFTWARE; REVERSE COMPILE OR REVERSE
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PLEASE READ THIS SOFTWARE LICENSE AGREEMENT CAREFULLY BEFORE INSTALLING OR USING THE SOFTWARE. BY CLICKING ON THE "I Agree" BUTTON, OPENING THE PACKAGE, DOWNLOADING THE PRODUCT, INSTALL OR USING THIS PRODUCT, YOU ARE CONSENTING TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, CLICK THE "Cancel" BUTTON AND THE INSTALLATION PROCESS WILL NOT CONTINUE, IF YOU INSTALL THE SOFTWARE ,THE TERMS AND CONDITIONS OF THIS LICENSE ARE FULLY ACCEPTED BY YOU. CUSTOMER SHALL NOT: COPY, IN WHOLE OR IN PART, SOFTWARE OR

MultiViewer 2.1 Setup	
Choose Install Location	
Choose the folder in which to install ANTIK MultiViewer 2.1.	5
Setup will install ANTIK MultiViewer 2.1 in the following folder. To insta click Browse and select another folder. Click Install to start the installat	
Destination Folder	Browse
Communicated 102 IBID	
Space required: 103.1MB Space available: 19.3GB	
Vullsoft Install System v2.37	



Click finish to run multiviewer software.

O MultiViewer 2.1 Setup	
	Completing the ANTIK MultiViewer 2.1 Setup Wizard MultiViewer 2.1 has been installed on your computer. Click Finish to dose this wizard.
	< Back Einish Cancel

Tick the right networks and click Allow access to continue.

Windows Secu	irity Alert	
V		II has blocked some features of this program
Windows Firewall	has blocked som	e features of MultiViewer on all public and private networks.
	Name:	MultiViewer
	Publisher:	ANTIK Technology
	Path:	C:\program files\ANTIK\multiviewer\multiviewer.exe
Allow MultiViewer	to communicate	on these networks:
Private net	works, such as n	ny home or work network
		ose in airports and coffee shops (not recommended ten have little or no security)
What are the risks	of allowing a pr	rogram through a firewall?
		Allow access Cancel

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	2
ОК	

Please send back the contents in the red box for license activation to <u>sales@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.

Computer ► Local Disk (C:) ► Program Files ► ANTIK ► MultiViewer ►
Organize ▼ Include in library ▼ Share with ▼ Burn New folder
MultiViewer
MultiViewer is running.
ОК

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)

Destinatio	n Folder Access Denied	X
	You'll need to provide a	dministrator permission to copy to this folder
		MultiViewer Date created: 2/12/2015 11:25 AM
		Continue Skip Cancel

Click Continue and copy License.lic to installation path:

Organize 👻 🔄 Ope	n Burn Newfolder			
🚖 Favorites	Name	Date modified	Туре	Size
Desktop	eneral general	11/4/2013 2:54 PM	XML Document	1 KI
Downloads	Phelp_ch	11/4/2013 2:54 PM	Compiled HTML	817 KE
2 Recent Places	2 help_en	11/4/2013 2:54 PM	Compiled HTML	817 KB
	a Lang_ch	2/12/2015 11:25 AM	Configuration sett	10 KE
😝 Libraries	Lang_en	2/12/2015 11:25 AM	Configuration sett	12 Ki
Documents	S libfreetype-6.dll	11/4/2013 2:54 PM	Application extens	2,098 KE
J Music	S libmpeg2-0.dll	11/4/2013 2:54 PM	Application extens	107 KB
E Pictures	libmy/SQL.dll	11/4/2013 2:54 PM	Application extens	2,304 KE
Videos	License.lic	2/12/2015 11:25 AM	LIC File	1 KE
	C texturely connection	1176/2012 3.54 864	RECORDENTIES CITY	2.97

Double Click the shortcut on desktop to run Multiviewer

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

3.5 Un-installation of Multiviewer

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

🗸 🗢 💽 🕨 Control Panel	All Control Panel Items Programs and Featur	res 🔹 🔸 Search Programs	and Features
Control Panel Home	Uninstall or change a program		
View installed updates	To uninstall a program select it from the lis	st and then click Uninstall, Change, or Repair.	
Turn Windows features on or	ro uninstan a program, select it nom the is	st and then thek oninstall, change, of Repair.	
off	Organize 👻 Uninstall/Change		1 - 0
	Name	Publisher	Installed On Size
	Adobe Flash Player 16 ActiveX	Adobe Systems Incorporated	1/19/2015
	Adobe Reader XI (11.0.10)	Adobe Systems Incorporated	1/19/2015
	Alipay Cert Component 2.0.0.1	Alipay.com Co., Ltd.	1/30/2015
	ANTIK MultiViewer 2.1	ANTIK Technology Co., Ltd.	2/12/2015
	ANTIK MultiViewer 2.1, uninstall?	Yes No	
Click Yes to continue			
	ANTIK MultiViewer 2.1 Uninstall	×	
	ANTIK MultiViewer 2.1		

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

 II 36 	nutery Quary Language (10)	Import Configuration				
		Externory Design			Program Mumi 0/0	
CITU Desg						 1 IN 10 - 10 10 10 10 10 10 10 10 10 10 10 10 10

7 Help: User Manual and software version information

About 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.





ay 49	10	a a a a	9 A C	
Analysis Play	Stop	Full Screen Screen Configure TS Configure Service Configure Clear Star	tus Into Alam Query System Configure Configure Export	
E g IPPot G Input: (235.0.0.1:1 G Channel 1 G Channel 1 G S Channel 1 B Input: 2(235.0.0.2:1 B CCTV 4 B CCTV 4 B CCTV 4 B CCTV 4 B CCTV 5 B CCTV		Channel 1/235. 0. 0. 1	ССТУ 4/235. 0. 0. 2	
			Status Info	
		2013-05-22 11:00 23Start Monitoring 2013-05-22 11:00 23Step Monitoring 2013-05-22 10:58:57Service Information Analysing		



[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:

	and the second	
Channel 1/235.0.0.1	8月1日起 CCTV-4 年晚20:00播出 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.

Ad	d Input	x
ſ	Input Informatio	n
	Input Name	İnput-2
	Input Type	TS over UDP 🔻
	Adapter	Auto 👻
	IP Address	
	Port	0
	ОК	Cancel



*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.

Input Informatio	n	
Input Name	Input-2	
Input Type	TS over UDP 👻	
	TS over UDP	1
Adapter	TS over RTP	1
	TS over CMMB	
IP Address	RTSP Streaming	
IF Address	RTMP Streaming	
Port	HTTP Streaming	J

<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 Serv
				Analyse Al

Name	Туре	URL	Adapter	Add
CNN	TSoverUDP	udp://192.168.0.121:10000	Auto	
Input-1	TSoverUDP	udp://192.168.0.232:10000	Auto	Edit
Input-2	TSoverUDP	udp://235.0.0.11:1234	Auto	
		MultiViewer	×	Delete
	Analys	sis is con Got 7 services OK		Analyse Servi

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

Edit Channel	×
- Input Informatio	n
Input Name	рии
Input Type	TS over UDP 🔹
Adapter	Auto
IP Address	192.168.0.121
Port	10000
ОК	Cancel



4.3.2 Service Configuration

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

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		
Service Type	TV -		CCTV8
Video PID	0xE2F 👻		▲ APID 0xE1C(3612)-AC
Audio PID	0xE30 -		VPID 0xE43(3651)-MP APID 0xE44(3652)-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 Right		APID 0xE30(3632)-MP
ОК	Cancer		 VPID 0xE25(3621)-MP APID 0xE26(3622)-MP

4.3.3 Alarm Threshold Configuration

Service Name #	T#V#1		🔲 Alert		V Apply	to all	
Monitor Preference	s						
Select .							
V Service Lost	Duration 5	s	🔽 Decode Fa	il	Duration	5	s
Video Lost	Duration 5	s	V Audio Los	t	Duration	5	5
V Freeze	Duration 5	s	Black		Duration	5	5
Color Bar	Duration 5	s		_			
🔲 Audio High	Duration 5	s	Threshold -20	dBFS			
Audio Low	Duration 5	s	Threshold -90	dBFS			
/ideo Preferences							
Freeze and Sile	nce						

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.

Window Configuration	_	_	_	_	X
Inputs Second CCTV(udp://192.168.0.121:10000) Input-1(udp://192.168.0.232:10000)	Select Template(1st Monitor)	1_Windows	Window Type	Empty -	
	Sub Monitor Configuration				
	Select Sub Monitor				
	Select Template(2nd Monitor)	· · · · · · · · · · · · · · · · · · ·			
۰ ا					
			Auto Set	ОК Са	ncel

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

🛋 Bluetop MultiViewer Demo Version			×	×
Monitor Configure Window Query	Window Configuration			
▶ # X				
 Inputs CCTV(udp://192.168.0.121:10(Inputs CCTV(udp://192.168.0.121:10000)	Select Template(1st Monitor) 4_Windows	Window Type Empty Service	
Input-1(udp://192.168.0.232:1	Input-1(udp://192.168.0.232:10000)		Analog Clock	
			Digital Clock Picture	
		/(udp://192.168.0.121:10	Round Robin Audio Spectrum	中。半简
			Empty	
		1(udp://192.168.0.232:11		
		Sub Monitor Configuration		
		Select Template(2nd Monitor)		
		Select remplate(2nd Wonton)		
51				
	<			
•			Auto Set OK Cancel	• 0.1K/s
CPU Usage: 0%	wiemory usage: 05 /6	Channel Nume 2	Program isum: 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.

window	CONTIC	uration
	g	

Inputs CNN(udp://192.168.0.121:10000)	Select Template(1st Monitor) 9_Windows					
	Picture	Picture Military				
😹 CCTV8 😹 CCTVZQ 🎉 YouShop 🎉 Military	CCTVZQ	CCTV8	Military			
🐮 HB	HB	НВ	YouShop			
	-Sub Monitor Config	juration	•			
	Select Sub Monitor					
	Select Template(2nd	l Monitor)				

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



		📥 Open				×
		Look in:	Pictures		- 🗿 🏂	≓ 🛄 🕈
		Recent Places				
Window Type	Picture 🗸	Libraries	Sample Picture	5		
		Computer				
Select Pictrue	Browse					
PIC_PATH		Network	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
		Time(5-3600s) 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	
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.

Backstage Monitor Configuration		
Please select the services to mor Services without monitor	nitor	Services monitored backstage
	>	
ОК		Cancel

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;

Display Configuration	×
View Preferences Caption Audio Bar Color Set	
Caption Scroll Caption Height Set by Pixel Pixel Set by Proportion 10 % Caption Font Color	
Service Name Name Service Name/Name	
OK Cancel Apply	Help

Display Configuration	×
View Preferences Caption Audio Bar Color Set	Color
Caption Scroll Caption Height Set by Pixel Set by Proportion Caption Font Color Service Name Name	Basic colors: Basic colors: Custom colors: Define Custom Colors >> OK Cancel
0	K Cancel <u>A</u> pply Help

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	7
Audio Bar Position(TV) Separately on Both Sides ▼ 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	
Tront Left Center Front Right	
Surround Left 🛛 Surround Right 📝 Subwoofer	
OK Cancel Apply Help	ן ר
Display Configuration	
View Preferences Caption Audio Bar Color Set	
Audio Bar Position(TV) Separately on Both Sides -	
Audio Bar Direction Horizon Horizon	
Audio Bar Width	
Mono Service	
Show Double Channel Show Single Channel	
Show Double Channel Show Single Channel 5.1 Channel	
-5.1 Channel	



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

Display Configuration	×
View Preferences Caption Audio Bar Co	olor Set
Color Set	Color
Backgrand	Basic colors:
Edge Color	
Text Color	
Grid Color	
	Define Custom Colors >> OK Cancel
	OK Cancel Apply Help

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

System Configura	ition	
Startup Settings	Warning Settings	Advanced Settings
Auto Sta	t Software	User Name(Windows Login):
Auto Sta	t Monitor	Password(Windows Login):
🗌 Auto Full	screen	
		OK Cancel Apply Help

Alarm Settings Tab

This tab provide alarm log interface with SNMP or HTTP to 3rd party

- SNMP trap
- ➢ HTTP

ettings
•

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

System Configuration					×
Startup Settings Wan	ning Settings	Advanced Settings			
H264 Decode	Auto Auto Efficient Balance	•			
		ОК	Cancel	Apply	Help



4.4 Window

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			
│□× ⊫╡〒坐回 ♡			
Select Window Template			
Template Name	Customize Window Template		
Custom Template			
	Row 4		
Config Grid	Coloumn 4		
Clear All	OK Cancel		
Del Template		Clo	se

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:

Setting Grid	×
Row 4	Coloumn 4
ОК	Cancel

Click to define rectangular:

Customize Window Template			
Rectangle Align Config Edi	t		
□×⊫ = ≖ u	0		
Coloret Mindow Terrolate			
Select Window Template			
Custom Templat 👻			
Template Name			
Custom Template	1		
Save			
🕼 Show Grid			
Config Grid			
Clear All			
-		2	
Del Template			
			Close

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:





	All Inputs All Services	•			15-02-12 15:10:36 15-02-12 15:10:36	
Home	Pre	Next	End		Qu	uery
Start Time	Input	Service	Message	Threshold	Cleared	Duration

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:

Import Configuration		×		
Option File Path	Basic Configuration	•		
Include display and system configuration.				
	OK Cancel			

🛋 Open				×
Look <u>i</u> n:	J MultiViewer	•	G 🌶 🖻 🛄 🕇	
An	Name	*	Date modified	Туре
	퉬 log		2/12/2015 12:06 PM	File folder
Recent Places	🔮 general		2/12/2015 1:49 PM	XML Doci
	👚 monitor		2/12/2015 2:57 PM	XML Doci
Desktop				
Desktop				
Libraries				
Computer				
Network	•	III		F.
Network	File <u>n</u> ame:	general	-	<u>O</u> pen
	Files of type:	XML Files (* xml)		Cancel
	nics of gpc.	MAL LIES (MII)	·) [Cancer
Export C	onfiguration	_		
	Option File Path	Basic Configuration Basic Configuration Monitor Configuration		
	Include disp	lay and system configuration.		
		OK Cancel		
💰 Save As				X
Save in	: 🕕 MultiViewer	•	G 🌶 📂 🛄	
(Ten	Name	*	Date modified	Туре
2	퉬 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 Docı
Desktop				
Libraries				
Computer				
	•			•
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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