Manual of PC Decoder

1.1 Introduction

1.1.1 PC Decoder Introduction

PC Decoder, a pure IP based network Decoding & Matrix platform, is integrated to support multi-monitor for TV wall function. By using this platform, user can decode all IP videos, such as video from PC-DVR, stand alone DVR, DVS and IP cameras (any brands supported by our software).

PC Decoder is made up of server end and client end. Its sever is added into NVR to support centralized management, including setting connection port, setting matrix output and display for each TV client and controling PTZ etc. Its client ends run on independent computers.

User can connect as many as 24 monitors to TV clients. Of course, it needs your video card in TV client system supports multi-monitor when you want to connect more than one monitors on a PC.



The frame diagram of application is as below:

1.1.2 Preparation

1. Installation

You have to install NVR client (the sever end of PC Decoder) and TV client

(the client end of PC Decoder) on different PC.

The way to install NVR is the same as before. So we will only introduce how to install TV client here.



to run the TV client installation program.

And then, follow the prompt to continue the installation. When the GUI shown as below displayed, fill the NVR IP in "Server IP". Take "192.168.0.192" as example. Select your desired language between "English" and "Chinese". "Server Port" here should be the same with "Listen Port" in NVR *PC Decoder Setup*. It's 5001 by default. Then, press "Save" to finish the information filling. At last, press "Finish" to complete the installation.

TVSetup		
	Server IP	192, 168, 0, 192
	Server Port	5001
	Language	English
	Save	Cancel



When it's done, this icon will be displayed on the desktop. Double click it to run the program.

Also, you can fill the server IP later after you finished the installation.

When you want to change the sever IP to others, you have to run "TVsetup.exe" in installed folder to change the IP.

2. Multi-monitor Setup

Please refer to 7.1.4 in *NVR Client User Manual* for details.

So far, the operations at TV client side are done.

By default, there will be four black windows on each monitor when you run TV client the first time.

1.2 Setup

All the settings can be done in NVR client, the sever end of PC Decoder. Client end is mainly used to view videos.

First of all, user has to enable *PC Decoder Funtion* in NVR system setup. Shown as below:

			-	SYSTEM SETUP			
Max.	Record channels	20	•		Display Resolution	1024*768 💌	
١	Vetwork listen port	5300			Web Listen Port	80	
	Use electron map	Disable Str	etched 👱]	Use Matrix Carc	Disable	- Setup
Connect Se	erver While Alarm	Disable	*	Data	Stream Auto Adjust	Disable	
Write	Log While Alarm	Disable	*	Software	Start Auto Connect	Disable	
Instant F	Playback max time	Disable	•	Auto Rec	onnect Time Interva	60 sec	
Keybo	ard Use COM Port	<u> </u>	-		Language	English 🔸	
	Window Split Mode	Normal Mode	-		Grab Picture Save to	D:\Grab	
PC	Decoder Function	Enable	•			1. S.	
		- Trace	CON	NECT SERVER	NFO	12 Terrenetari	
IP Alias	IP Address	Dis	p. Port	Device Type	Cameras	Use DNS?	<u> </u>
			~				Add Modify Diana Ad

1.2.1 Monitor Setup

Single-Right-Click in any window, the menu as below will be displayed. Click "PC Decoder Function" \rightarrow "PC Decoder Setup" to enter **PC Decoder Setup**.

Full screen display		
Instant playback End playback	•	
Image Quality	►	
Frame rate	×	
Resolution	×	
IP Video Zoom in		
Switch to Sub Stream		
Audio Chat		
PC DVR Motion Setup		
Views Manual Adjust		PC Decoder Setup
Device Abnormity Message		Open All Monitor
About IP Register		Close All Monitor
PC Decoder Function	•	192. 168. 0. 99-TV: 1

- Custom Do	ra Cat	All Monitor List		Active Monitor List		
- System Pa	ira. Set	🗉 🗓 192.168.0.99		Customed Name	IP Address	Default Name
Listen Port	5001		Delete Client	🛡 192.168.0.99-TV:1	192.168.0.99	TV:1
			Delete enem			
			Add			
			Remove			
			Remove All			
			Setup			
Save						
Exit						

The IP "192.168.0.99" here is one of the PC you installed TV client on. After you filled the NVR IP "192.168.0.192" (the sever end, mentioned before) in login interface when running TV client, its IP will be displayed here automatically. "TV: 1" is the main monitor in TV client. When there are dual monitors, the second monitor will be shown as "TV: 2" here.

PC Decoder Setup					
System Para. Set Listen Port <mark>5001</mark>	All Monitor List 192.168.0.238 V:1 TV:2 192.168.0.39 TV:1	Delete Client	Active Monitor List Customed Name 192.168.0.238-TV:1 192.168.0.99-TV:1 192.168.0.238-TV:2	IP Address 192.168.0.238 192.168.0.99 192.168.0.238	Default Name TV:1 TV:1 TV:2
		Add Remove Remove All Setup			
Save					

1. Group Setup

Double click one TV monitor in the "Active Monitor List" to enter "Monitor Setup" displayed as below.

You can set as many as 16 groups for each TV monitor.

			Moni	or Setup					
Device List	Monitor Name	192.168.	0.99-TV:1	Group 1	Group Na	ime Group	I	Partition M	lode 9 <u>-</u>
Image: symbol 2 Image: symbol 2	Device 192.168	Camera Camera	Stream Main	Device 192.168.0	Camera camera 01	Stream T Main	Device N 192.168.0	Camera Camera02	Stream T Main
	Interval Dis Device 192.168.0	able _ Camera Camera03	1 Stream T Main	Interval Dis Device 192.168.0	able v Camera CameraO4	2 Stream T Main	Interval Dis Device N 192.168.0	able v Camera PTZ_Ca	Stream T Main
	Interval Dis	able 💌 Camera	4 Stream T	Interval Dis	able 💌	5 Stream T	Interval Dis	able 💌	Stream T.
Default Stream Type	192.168.0	1.3M IP	Main	192.168.0	Camera02	Main	192.168.0.3	3 Camer	Main
Save	Interval	able 🔻	7	Interval Dis	able	8	Interval Dis	able	

Select a group from the drop-down list to set it. You can define its name and partitions. The changed group name will be actived after software restarted. There are 1, 4, 9 and 16 partitions modes.

You can drag any cameras' name to the display window. Default stream type can be selected between "Main Stream" and "Sub Stream". After that, all the cameras in this group will display their main stream or sub stream in TV client. When you want to cancel the display of one camera in one window, double click it to remove. For example, you can double click "1.3M IP" to remove it from the 7th window.

Also, you can change the stream type of some cameras, not all. Move mouse to the stream type, then, there will be a drop-down list displayed. Select one stream type from the list to display. The other cameras you didn't change their stream type will be displayed as "Default Stream Type".

Device	Camera	Stream T
192.168.0	Camera	Sub 💌
		Main Sub
Interval Dis	able 🔽	1

2. Loop Setup

You can display more than one cameras in a window.

S 192.168.0.101	Device Name	Camera	Stream Type	Device Name	Camera	Stream Type
3 192.168.0.102	103 100 0 101	Camera ICT	blain Type	102 100 0 2	2 Camera 02	biala biala
s 192.168.0.103	192.100.0.101	Callera-JST	Main	192.100.0.3	3 Camera 03	Main
5 192.168.0.3	192.100.0.102	Camera 01	Main	102 100.0.3	3 Camera 07	Sub
3 192.168.0.63	102 169 0 102	Camera02	Cub	132.100.0.3	5 Calliera UZ	Maili
	102 169 0 102		Sub			
	102 100.0.102	Comoro01	Moin			
	102 169 0 102	Camera01	Main			
	102 169 0 103	Camerall	Main	-		
	102 168 0 3	3 Camera 01	Main			
	192 168 0 3	3 Camera 04	Main			
	192 168 0 3	3 Camera 05	Main			
	102 168 0 3	3 Camera 06	Main			
	Device Name	Camera	Stream Type	Device Name	Camera	Stream Type
	192.168.0.102	Camera03	Main	192.168.0.3	3 Camera 03	Main
		Compose 119	Main	192.168.0.63	1.3M IP	Main
	192.168.0.102	Camerauz		100 100 0 0		
	192.168.0.102 192.168.0.101 192.168.0.2	Camera-JST	Main	192.168.0.3	3 Camera 04	Sub
	192.168.0.102 192.168.0.101 192.168.0.3	Camera-JST Camera-JST 3 Camera 07	Main Sub	192.168.0.3	3 Camera 04	Sub
efault Stream Turce	192.168.0.102 192.168.0.101 192.168.0.3	Camera-JST 3 Camera 07	Main Sub	192.168.0.3	3 Camera 04	Sub
efault Stream Type	192.168.0.102 192.168.0.101 192.168.0.3	Camera-JST Camera-JST 3 Camera 07	Main Sub	192.168.0.3	3 Camera 04	Sub
efault Stream Type Aain Stream 🔽	192.168.0.102 192.168.0.101 192.168.0.3	CamerauZ CamerauJST 3 Camera 07	Main Sub	192.168.0.3	3 Camera 04	Sub

The only thing you have to do is setting the interval. You can set it as 5, 10, 15 and 20 seconds etc. The greatest interval here you can set is 60 seconds.

Interval	5 second	-
	Disable	^
	5 second	
	10 second	_
	15 second	
	20 second	~

When all the settins are done, don't forget to click "Save" button on the left. You should click "Save" in both "Monitor Setup" and "PC Decoder Setup" interface. Then, click "Exit" to exit setup.

1.3 Monitor Contol

1.3.1 Monitor Status Display



Select "Open All Monitor" in right click menu to view all the monitors connected in the system. You can drag them to anywhere. The names of current display cameras on TV client will be shown in the monitor window.

Also, you can open only one monitor at a time via selecting it in the monitor list below "Close All Monitor". For example, click "192.168.0.99-TV: 1" to open the third monitor in the list shown as above.

You can adjust the view mode, select cameras or groups to display and control PTZ on the monitor you opened just now. For more details, please refer to 1.3.2.

192.168.0.101 192.168.0.102 192.168.0.101 192.168.0.102 Camera-JST camera 01 192.168.0.103 192.168.0.102 192.168.0.103 camera 01 192.168.0.103 192.168.0.102 192.168.0.103 192.168.0.102 192.168.0.103 192.168.0.102		NVR5.35 Steep Connect List Connect 2 192-168.0 103 4
	102.161.0.092 TV:1 192.168.01 192.168.02 192.168.01 192.168.02 192.168.01 192.168.02 192.168.01 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02 192.168.02	+ <u>9</u> 19216803 + <u>9</u> 19216803
	192,168,0.103 Camera02	192.168.0.101 Camera-JST PTZ 192.168.0.3 PTZ PTZ PTZ PTZ PTZ PTZ PTZ PTZ
C 2 Sat Jan 23, CPU: 42	2010 AM03:09:02 Window1 none	

1.3.2 Monitor Control

1. View Adjust

Click view on monitor to enter this menu:

View 1 View 4 View 9 View 16 Hide Restart

User can adjust the window split mode to 1, 4, 9 or 16 views mode.

When you select "Hide", the windows on TV client will be hidden. Also, when you select "Restart", TV client will restart.

2. Display Groups

Click contained on monitor window to open the group name list. Select one group to display on the TV client. And the corresponding cameras' names will

be displayed in the monitor window.

1	92.168.0	.99-TV:1	
192. 168.0. 10 1 Cam era-J ST	192. 168.0. 102 camera 0 1	192. 168.0. 102 Cam era02	View
152. 168.0. 102 Cam era03	192. 168.0. 102 Cam era04	192. 168.0. 102 PTZ_Camera	✔ Group1 Group2
152.168.0.63 1.3 M IP	152. 168.0, 103 Cam era02	192. 168.0.3 3 Camera 05	Group3 Group4 Group5
			Group6 Group7
			Group8 Group9 Group10
			Group11 Group12
			Group13 Group14
			Group15 Group16
			Close All

When you select "Close All", you will close all the groups. At that time, there will be no camera displayed on TV client. And the monitor windows will turn to black. But you can drag cameras from "List Connect" panel to monitor window to display. Also, you can select a group name again to display.

3. PTZ Control

Click **PTZ** on monitor window to enter PTZ control menu.

1	92.168.0	.99-TV:1		Zoom - +
192. 168.0. 10 1 Camera-J ST	192. 168.0. 102 cam era 01	192. 168.0. 102 Cam era02	View	Focus - +
192. 168.0. 102 Cam era03	192. 168.0. 102 Cam era04	152. 168.0. 102 PTZ_Camera	PTZ	Preset P
192.168.0.63 1.3 M IP	192. 168.0. 103 Cam era02	192. 168.0.3 3 Camera 05	Hide	

PTZ can only be controled when PTZ camera is selected. It's nearly the same with the operations on PTZ control panel. But you can only call the preset you have set. You can't set the preset here.

When there are more than one cameras displayed in a window, you can't control PTZ. But you can drag PTZ camera to this window to stop loop in the window and then control PTZ.

1.3.3 Close/Hide Monitor

Click Hide on monitor window to hide the window when you finished the settings.

Also, you can select "Close All Monitor" in right click menu to close all the monitors you opened.

Full screen display		
Instant playback End playback	ŀ	
Image Quality Frame rate Recolution	+ +	
IP Video Zoom in Switch to Sub Stream		
Audio Chat PC DVR Motion Setup	[
Views Manual Adjust		PC Decoder Setup
Device Abnormity Message		Open All Monitor
About IP Register		Close All Monitor
PC Decoder Function	Þ	192.168.0.99-TV:1