# User Manual of DS-6101HFI-IP (V1.0)

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Thanks for purchase the products of our company. If you have any request or questions, please contact us immediately.

This manual is applicable for DS-6101HFI-IP Video Server.

This manual may contain some technically incorrect places or printing errors. This manual will be updated on a regular basis without additional specific notice. The updates will be added into the new version of this manual. We will readily improve or update the products or procedures described in the manual.

# **Chapter 1 Introduction**

DS-6101HFI-IP video server adopts embedded Linux operation system (RTOS) and TI Davinci processor, which is completely independent of PC platform and, efficiently improves system performance. Firmware is burned in FLASH, makes the system more steady and reliable.

DS-6101HFI-IP is one channel network digital video server. It can also be used as IP module. As IP module, it can be combined into camera and speed dome to build IP camera and IP dome. IP module can be customization design. It can compress the video signal and audio signal simultaneously into H.264 compression stream and transmit the compression stream through network. It can support real-time video and audio preview, support stream protocol (RTP/RTCP, RTSP), IE browser and bi-directional voice communication, etc.

#### Notes:

DS-6101HFI-IP: 1 channels video input and 1 channels audio input. It can support 4CIF resolution real time (25FPS for PAL or 30FPS for NTSC).

### 1.1 DS-6101HFI-IP functions and features

#### Basic Function:

- 1. High speed & high compression ratio of H.264 video hardware real-time compression;
- 2. Multiple security level leads to high system safety;
- 3. Support one RS-485 interface that can be used to control pan-tilt-zoom and translucent channel input;

#### Compression Function

- Support 1 Channel of video (PAL/NTSC) signal, and can be real-time hardware compressed in 25F/S (PAL) or 30F/S (NTSC) CIF resolutions independently. Video is compressed using H.264 standard, and it supports not only variable bit rate but also variable frame rate. When choosing video image quality, you can also limit the bit rate of the compression code.
- 2. Support OSD the position of the date and time can be adjusted, date and time can be added automatically.
- 3. Support LOGO, the position of it can be anywhere in the video image.

#### Network Function

- 1. Support one 10M/100M Ethernet compatible interface;
- 2. Support TCP/IP protocol; Parameter setting, real-time video & audio previewing, status examination, alarm through network and store the compression bit rate through network.
- 3. Support pan-tilt-zoom control such as the turn of PTZ, iris and focus;
- 4. Support remote upgrading and maintenance;
- 5. RS-485 interfaces support transparent transmission mode, and remote hosts can control

serial devices through it;

### 1.2 Common application

Network digital surveillance, such as ATM machine, factory and the bank etc.;

Remote monitoring service for prison, nursery and school;

Intelligent gate system (dynamic record the people in and out);

Intelligent building and community;

Uncared-for system of electric power station or telecom base station;

Outdoor equipment monitoring;

Bridge, tunnel and cross road-monitoring system;

Pipeline, warehouse monitoring;

24 hour monitoring of traffic;

Remote monitoring of forest, water and river, etc.

# **Chapter 2 Installation**

### 2.1 Hardware installation

#### 2.1.1 Installation steps

- 1. Open packing case, and check the integrity;
- 2. Take out things needed in installation;
- 3. Connect cables needed (video signal input cable, audio signal input cable, RS485 cable and cable for LAN);
- 4. Take out stabilizer power supply and power on.

### 2.1.2 Installation notice

Please read the following notice carefully. If you have any question,

#### please contact us.

#### Notice:

- 1. After Opening the packing box, please check carefully to confirm that the goods in it are consistent with list;
- 2. Please read user's manual carefully before installation;
- 3. Please power-off all related equipments before installation;
- 4. Please check the voltage of power supply to avoid voltage mismatch;
- 5. Installation environmental: Do not use it under humidity and high temperature; to keep ventilation to vent freely, avoid to be walled up; to keep them horizontally, avoid to set up in the vibration surroundings.

### 2.2 Product demonstration







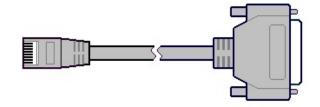
### 2.3 The pin definition of physics interfaces

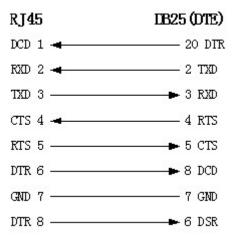
#### 2.3.1 PIN definition of RS-232 serial interface

The DVS has one RS232 standard serial interface, with RJ-45 connector. Its pin definition is as follows ('I' means input, and 'O' means output):

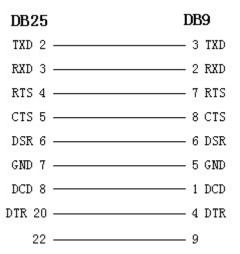
	Table	2.1 Pin de	finition of 1	RS232 serial port
	Pin No	Neme	I/O	Explanation
	1	DCD	Ι	Carrier Detect
1 8	2	RxD	Ι	Receive
	3	TxD	0	Transmit
	4	CTS	Ι	Clear send
	5	RTS	0	Request to send
	6	DTR	0	Data Terminal Ready
Eic 21 DI 45	7	GND		GND
Fig 2.1 RJ-45	8			

(1) When the RS232 interface of the DVS connects with the DTE equipment, one end of the cable is the 8-pin RJ45 connector (to DVS) and the other of the cable is the DB25 female connector (to DTE). Below is the description of the internal connection between RJ45 and DB25.

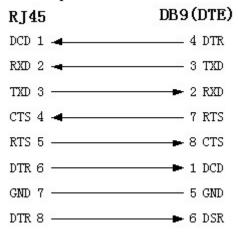




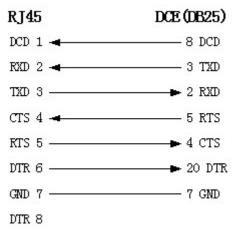
(2) 25-pin to 9-pin converter's internal connection is like this:



(3) If you don't want to use 25-pin to 9-pin converter to connect DVS and DTE through RS232 interface, you must use RJ45-DB9 cable. Its internal connection description is:

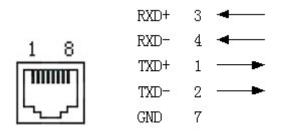


(4) When the RS232 interface of the DVS connects with the DCE (such as MODEM), one end of the cable is the 8-pin RJ45 connector and



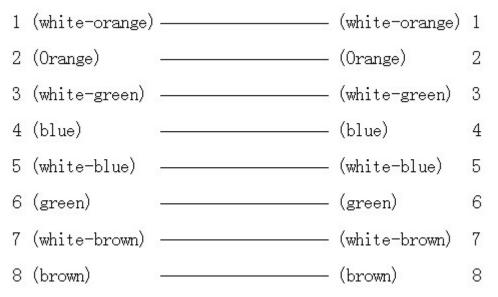
the other is the DB25 male connector. Below is the description of the internal connection between RJ45 and DB25:

#### 2.3.2 PIN definition of RS485 serial interface

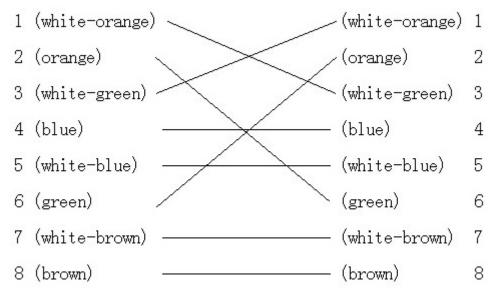


#### 2.3.3 PIN definition of Ethernet interface

(1) PIN definition of the direct network cable connecting DVS and HUB:



(2) PIN definition of the cross network cable connecting DVS and host PC:



# **Chapter 3 Video Server Setup**

There are three kinds of methods to configure the parameters of video server.

- 1. Through Hyper Terminal (connect DVS with the PC through RE-232 serial ports)
- 2. Through TELNET (connect DVS with PC through network)
- 3. Through client-end application software (connect DVS with PC through network)

### 3.1 Parameter Setup through RS-232 serial port

Mainly set up IP parameters of the video server through serial port. The defaulted IP address is 192.0.0.62.

Under the case that the IP address is unknown; the Hyper Terminal (need to connect the serial ports) can only be adopted to configure IP address and other parameters. Under the case that IP address is known, TELNET can be adopted to configure IP address and other parameters, and can also modify the IP address by using client-end software.

### 3.1.1 Hyper Terminal Setup

Please direct connect the RS-232 serial port of PC with the RS-232 serial port of video server before configuration (there are RJ45 head and DB9 line in the packing carton)

#### How to establish the connection with the super terminal connection?

**Step one:** Enter into Hyper Terminal. Click "Start"  $\rightarrow$  "Programs"  $\rightarrow$  "Accessories"  $\rightarrow$  "Communications"  $\rightarrow$  "Hyper Terminal" in Windows system, and the dialogue box below will appear (Fig. 3.1.1):



Fig. 3.1.1 newly establish a connection and define the name and icon

**Step2:** To name the connection name and to define the icon. Input a name (e.g. aa), select a icon, press "OK", the dialogue box like Fig. 3.1.2 appears.

Connect To	? ×
🗞 аа	
Enter details for the phone number that you want to d	lial:
Country/region:	<b>Y</b>
Area code:	
Phone number:	
Connect using: COM1	•
OK Cancel	

Fig. 3.1.2 select communication port

**Step 3":** to select the communication port. Select "com1" communication port in Fig3.1.2, press "OK", the dialogue box as Fig. 3.1.3 will appear.

M1 Properties			?
Port Settings			
<u>B</u> its per second:	115200		•
<u>D</u> ata bits:	8		-
Parity:	None		•
<u>S</u> top bits:	1		-
Elow control:	None		•
		<u>R</u> esto	re Defaults
01		Cancel	Apply

Fig. 3.1.3 Serial ports parameter setup

**Step 4:** Serial port parameters setup. Set the serial port parameters as the following setup: Bits per second: 115200, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None. Press "OK" after

🍓 aa - HyperTerminal							J	
<u>F</u> ile <u>E</u> dit ⊻iew <u>⊂</u> all <u>T</u>	ransfer <u>H</u> elp							
02 28 0	8							
Connected 0:00:27	Auto detect	Auto detect	SCROLL	CAPS	NUM	Capture	Print ech	• //
2	,	1			1		1	111

finish, the Hyper Terminal interface like Fig. 3.1.4 will appear

Fig. 3.1.4 Hyper Terminal Interface

**Step 5:** To close the window, the Fig. 3.1.5 will appear. Select "Yes" and Fig. 3.1.5 will appear. Select "Yes" again to have the Fig. 3.1.6

HyperTer	minal 🔀
	You are currently connected. Are you sure you want to disconnect now?
	<u>Y</u> es <u>N</u> o
	Fig. 3.1.5 to disconnect
HyperTe	rminal X
?	Do you want to save session aa ?
<u>[</u> 6	es <u>N</u> o Cancel

Fig. 3.1.6 save Hyper Terminal session

**Step 6:** Save the Hyper Terminal session for using next time. After saving, it will new establish a "Hyper Terminal" item in the program group "Start"  $\rightarrow$  "Programs" $\rightarrow$  "Accessories" $\rightarrow$  "Communications"  $\rightarrow$  "Hyper Terminal" and it includes all "Connection" name for all Hyper Terminal. Here you have see a icon named "aa.ht".

### 3.1.2 Shell Commands Under Hyper Terminal

Please use the DTE cable and the DB9/DB25 converter to connect PC with DVS RS-232 port.

**Step 1:** Enter into the Hyper Terminal. Click "Start"  $\rightarrow$  "Programs"  $\rightarrow$  "Accessories"  $\rightarrow$  "Communications"  $\rightarrow$  "Hyper Terminal"  $\rightarrow$  "aa.ht", the Hyper Terminal interface in Fig, 3.1.4 will appear.

**Step 2:** Press "Enter" in Hyper Terminal, the prompt "—>" appear, as in Fig. 3.1.7. Under this prompt the following operation commands to accomplish the setup of the parameters.

🍓 aa - HyperTermin	al					_ 🗆 🗙
File Edit View Call	Transfer Help					
02 28 4	1 <u>7</u>					
						×
Connected 0:00:41	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture

Fig. 3.1.7 Hyper Terminal command prompt

Input help, the supported configuration commands can be checked up, as in Fig. 3.1.8.

🍓 aa - HyperTerminal		
File Edit View Call T		
02 28 0		
-> help help exit getIp setIp setIp setGateway ->	: Print this List. : Logout of telnet. : Get device's IP address. : Set device's IP address. e.g. setIp 192.168.1.10:255.255.255.0 : Set device's command port. : Set device's gateway.	4 L
Connected 0:01:56	Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo	1.

Fig. 3.1.8 to check command

The following is the introduction of getIp, setIp commands.

#### getIp

Function: to get the fixed IP, subnet mask, gateway, command port, IP address of PPPoE dialup (the IP address of PPPoE will be 0.0.0.0 if there is no dialup or dialup is not successful).

Parameter: none.

Grammar format: Enter after input the command

Explanation: Please pay attention whether the inputting letters are capital or low case.

餋 aa - HyperTerminal		
File Edit View Call Trans	fer Help	
020200		
		1
-> help help exit getIp setIp	: Print this List. : Logout of telnet. : Get device's IP address. : Set device's IP address. e.g. setIp 192.168.1.10:255.255.255.0	
setPort setGateway -> getIp	: Set device's command port. : Set device's gateway.	
IP address	: 192.0.1.62 : 255.255.248.0 : 8000	
Connected 0:02:46	to detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo	

Fig. 3.1.9 to get parameters of IP, PPPoE

#### setIp

Function: to set the IP, subnet mask and gateway of the device

Parameter: IP address, subnet mask, gateway

Grammar format: setIp IP: mask

Explanation: Please pay attention whether the inputting letters are capital or low case. And separate the parameters by colons.

🏀 aa - HyperTerminal	
Elle Edit View Call Iransfer Help	
<pre>-&gt; -&gt; -&gt; help help : Print this List. exit : Logout of telnet. getIp : Get device's IP address. setIp : Set device's IP address. e.g. setIp 192.168.1.10:255.255 setPort : Set device's command port. setGateway : Set device's gateway&gt; setIp 192.0.1.62:255.255.248.0 -&gt; _</pre>	.255.0
Connected 0:00:42 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo	1.

Fig. 3.1.10 to set IP

#### **3.2PTZ control**

Step1: Connect DS-6101HFI-IP RS-485 interface with PTZ. Please refer to RS-485 pin definition. DVS just uses Pin1 (TX+) and Pin2 (TX-) to send PTZ control command.

Step2: You can use remote client software to setup PTZ protocol.

In client software remote setup dialog box, select "Serial Para" tab button. You can select DVS PTZ parameters in the corresponding dialog box.

note Setup Server Para.   Channe	Para. Serial Para.	Alarm Para. User	Transaction Exc	eption	
RS232 Properities-					
Baudrate	Data Bit	Stop Bit	Parity	Flow Ctrl	Mode
115.2k 💌	8 💌	1 💌	None 💌	None 💌	Console 💌
PPP Transfer M	ode				
PPP [	💌 Callba	ck 🔽	User	Pass:	
Remote IP		Local IP		Veri	
Mask :	Pho	ine		🗌 🗖 Data Encrypti	on 🗖 Callback
		,			
R5485 Properities - Select Camera	Channel1	1			
Baudrate 9600	🗾 🗾 Data Bit	8 💌	Stop Bit 1	Parity	None
Flow Ctrl	None 💌	Protocol: Kalai	el-312 💌	PTZ Addr:	0
ОК		Copy to camera	All Channels 💌	Сору	
				ОК	Cancel
		Reboot	Default Pa	ra. Save F	Para. Exit

Please refer to client software user manual for detail information.

### **3.3**Configure parameters through client-end software

Before the configuration, please make sure that the PC and the video server has been established the network connection, you can confirm using PING command. Please refer to the user manual of DVRDVS client software for detail information.

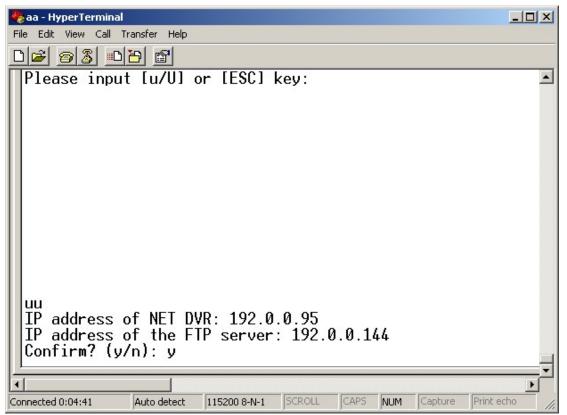
erver Para. Char	nnel Para.   Serial Para.   .	Alarm Para.   User		
Gerver Parameter: VRDVS Name	Embedded Net DVS	HDD Number	0	
EV ID	88	DNS IP Address	0. 0. 0. 0	
P Address	192. 0. 1. 62	Multicast IP	0.0.0.0	
ort Number	8000	Gateway IP	0. 0. 0. 0	
IASK IP	255. 255. 248. 0	NFS IP	0.0.0.0	
let Interface	10M/100M AUTO	NFS Directory		
IAC Address	00:40:30:40:50	Remote Host IP	0. 0. 0. 0	
hannel Number	4	Remote Host	0	
irmware Version	V1.4 build 050915	PPP oE	NO	
ardware Version	0x50000000	PPPoE User		
ront Panel	0	PPPoE Password		
SP Version	V3.7 build 050818	PPPoE IP	0.0.0	
larmIn Number	4	Cycle Record	YES	
larmOut Number	2	DVRDVS Type	DVS	
		Http Port	80	
erial Number	DS6004HC0020050728AAWR000	062848WCV		
	OK	Cancel		
	-			
ve Para. Defa				

# **Chapter 4 Upgrade Firmware**

There are two methods to upgrade the DVS firmware. One is using shell commands to ask DVS to download firmware from FTP server. The other is using PC client software.

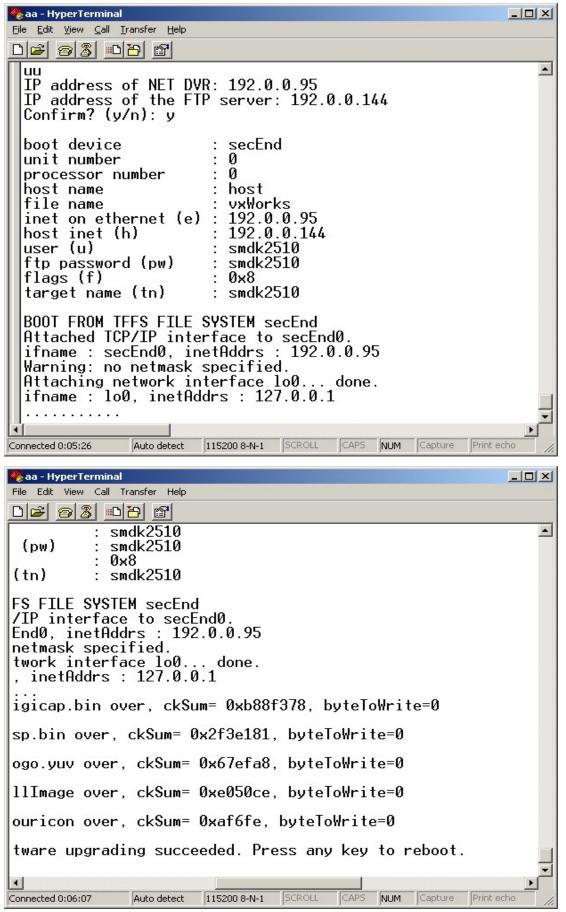
#### 4.1 Use Shell Command and FTP Server

- 1. Using DTE cable to connect the RS232 of DVR to the RS232 of PC.
- 2. Setup the Hyper Terminal correctly and run it.
- 3. Make sure the FTP Server (wftpd32.exe) is setup correctly (the corresponding user manual is in CD) and run it.
- 4. Make sure the network between DVRDVS and PC is ok.
- 5. Press "ctrl" and "u" keys of the PC keyboard, do not release them.
- 6. Switch off and on the power supply of DVRDVS.
- 7. In the HyperTerminal, the following sentence is appeared: Please input [u/U] or [ESC] key
- 8. Release "ctrl" and "u" keys, press "u" key
- 9. After that, please refer to following pictures.



In the example, I set the DVRDVS as "192.0.0.95" and ftp server as "192.0.0.144". Of course the ftp server software (wftpd32.exe) is run in the PC whose IP address is "192.0.0.144" and the network is OK. In this case, DVRDVS (192.0.0.95) will search the PC (192.0.0.144) and

download the firmware from ftp server.



### 4.2Use Client Software to upgrade firmware

System Setup
Surveillance Setup Local Setup User Management
Image: test   Image: Channel1   Image: Channel3   Image: Channel5   Image: Channel6   Image: Channel8     Image: Up   Image: Down     Image: Down
Add DVR Del DVR Reboot Upgrade Log Info Remote Key DVR Status OK
Exit

In the system setup dialog of DVRDVS client software (refer to client software user manual), there is a button named "Upgrade":

Select the DVRDVS, Click "Upgrade" button, the following dialog box will be appeared:

Remote Upgrade	
Upgrade File:	
	Browse
,	
OK	Cancel

Fig.4.21 remote upgrading

Click "Browse" button and select the firmware file. Then click "Upgrade" button, to complete the upgrading process of the video server firmware.

# **Chapter 5 PPPoE dialup operation**

DS-6101HFI-IP video server supports remote access through network, through browser, through PPPoE or PPP dialup. Before using this function, please make sure that the software you used in your device support such functions or not.

#### 5.1 Using PPPoE to establish connection

In the local LAN, use the client software remote setup the DVS parameters. The setup dialog is looked as following:

DVRDVS Name     Embedded Net DVS     HDD Number       DEV ID     88     DNS IP Address       IP Address     192.0.1.62     Multicast IP       Port Number     8000     Gateway IP       MASK IP     255.255.248.0     NFS IP       Net Interface     10M/100M AUTO     NFS Directory       MAC Address     00:40:30:40:b0:50     Remote Host 1	0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0	
DEV 1D       Port       DES 11 Address         IP Address       192.0.1.62       Multicast IP         Port Number       8000       Gateway IP         MASK IP       255.255.248.0       NFS IP         Net Interface       10M/100M AUTO       NFS Directory         MAC Address       00:40:30:40:b0:50       Remote Host 1	0.0.0.0	
Port Number     8000     Gateway IP       MASK IP     255.255.248.0     NFS IP       Net Interface     10M/100M AUTO     NFS Directory       MAC Address     00:40:30:40:b0:50     Remote Host 1	0.0.0	
MASK IP 255.255.248.0 NFS IP Net Interface 10M/100M AUTO NFS Directory MAC Address 00:40:30:40:50 Remote Host :		
Net Interface 10M/100M AUTO  NFS Directory MAC Address 00:40:30:40:50 Remote Host 3	0. 0. 0. 0	
MAC Address 00:40:30:40:50 Remote Host :		
	7	
	CP 0.0.0.0	
Channel Number 4 Remote Host	0	
Firmware Version V1.3 build 050512 PPPoE	NO	
Hardware Version 0x50000000 PPPoE User		
Front Panel 0 PPFoE Passwor	rd 🗌	
DSP Version V3.5 build 050223 PPPoE IP	0.0.0.0	
AlarmIn Number 4 Cycle Record	YES	
AlarmOut Number 2 DVRDVS	DVS 💌	
Serial Number DS6004HC0020050728AAWR000062848BWCV		

In the server parameters sub dialog, enable PPPoE function, input the correct PPPoE user name and PPPoE password. Click "OK" button and "Save Para." button. The new server parameters will be saved into video server through network. Reboot the video server, the DVS will start to dialup the Internet. After success, the video server will get a dynamic WAN IP address.

erver Para. Cha	nnel Para.   Serial Para.	Alarm Para.   User	1
Gerver Parameter			0
VRDVS Name	Embedded Net DVS	HDD Number	
EV ID	88	DNS IP Address	220. 184. 114. 48
P Address	192.0.0.64	Multicast IP	0.0.0.0
'ort Number	8000	Gateway IP	0. 0. 0. 0
MASK IP	255. 255. 255. 0	NFS IP	0. 0. 0. 0
let Interface	10M/100M AUTO	NFS Directory	
MAC Address	00:40:30:40:b2:dd	- Remote Host IP	0. 0. 0. 0
Channel Number	4	Remote Host	0
'irmware Version	V1.3 build 050518	PPP oE	YES
lardware Version	0x50000120	PPPoE User	hzhz88846467
ront Panel	0	PPPoE Password	****
SP Version	V3.5 build 050223	PPPoE IP	0.0.0.0
larmIn Number	4	Cycle Record	YES
larmOut Number	2	DVRDVS	DVS
Gerial Number	DS6004HC0020050613AAWR00	00063501BWCV	
	OK	Cancel	

[Explanation] please make sure that ADSL Modem is installed. If it is the first time to set PPPoE parameters, it needs to reboot video server to establish the connection.

#### 5.2 Client access DVS when using PPPoE

There are two methods:

One is to access using the current WAN IP address of the video server.

When the video server is successful establish the network connection by using PPPoE mode, it will get the WAN IP address. You can use Hyper Terminal to get the WAN IP address, and access this IP address through client software.

The other is to access through domain analysis server. By using this mode, you need a PC with a fixed WAN IP address in the Internet, and there is the domain analysis server software running in this PC (actually this PC is the analysis server). We provide such demo DNS software and SDK.

In the server parameters of video server, there is an item named DNS. Please input the PC fixed WAN IP address here. When the video server is successfully connection with the internet by using PPPoE, it will get a dynamic WAN IP address, and send the name and current IP address to the analysis server. If the client-end software wants to access the video server, it'd first to

connect with the PC used as the analysis server, telling the analysis server which one video server he wants to access. The analysis server will search all the video servers have been registered, find out the server with the same name or same serial number, and tell the client-end the WAN IP address of the video server. After the client-end software get the current IP address, it can establish the network connection with the video server to get the video images directly.

Server Parameters NVRDVS Name	Embedded Net DVS	HDD Number	0
DEV ID	88	DNS IP Address	220. 184. 114. 48
IP Address	192. 0. 0. 64	Multicast IP	0.0.0.0
	8000	•	0.0.0.0
ort Number		Gateway IP	
MASK IP	255. 255. 255. 0	NFS IP	0.0.0.0
Net Interface	10M/100M AUTO	NFS Directory	
MAC Address	00:40:30:40:b2:dd	Remote Host IP	0.0.0
Channel Number	4	Remote Host	0
firmware Version	V1.3 build 050518	PPPoE	YES
fardware Version	0x50000120	PPPoE User	hzhz88846467
Front Panel	0	PPPoE Password	жжжж
)SP Version	V3.5 build 050223	PPPoE IP	0. 0. 0. 0
larmIn Number	4	Cycle Record	YES
AlarmOut Number	2	DVRDVS	DVS
Serial Number	DS6004HC0020050613AAWR00	0063501BWCV	
	,		
	OK	Cancel	

Here the fixed WAN IP address of PC is 220.184.114.48. We call it as DNS IP. In that the PC, a demo analysis server software named IPServer is run. It can get the video server information, including the dynamic WAN IP address of the video server.

DVR IP addr.	DVR SerialNo.
220. 184. 114. 118	DS6004HC0020050613AAWR000063
1	Þ
	220. 184. 114. 118

# **Chapter 6 Frequent ask questions**

1, Failure to control PTZ

It is possible that the camera and equipment are not connected through RS485 port, or the wrong configuration of the decoder.

2, certain individual channel picture is un-normal

Please check whether the video cable is well connected with the camera and the Embedded DVS

3, Possible reasons which can cause the failure of upgrading

Failure of the network, IP address error in the FTP host computer, FTP service is not been booted by PC, the path to upgrade is incorrect, no permission (usually happened when to upgrade through client-end.)

If the above information cannot meet your demand, please not hesitate to contact the provider.

# Appendix A DS-6101HFI-IP Specifications

Video compression	H.264	
<b>Compress resolution</b>	4CIF/DCIF/2CIF/CIF/QCIF	
Video input	1-ch BNC (1.0Vp-p, 75Ω)	
Frame rate	PAL: 25 FPS; NTSC: 30 FPS	
Audio input	1-ch BNC (2.0Vp-p, 1kΩ)	
Audio compression	OggVorbis, 16Kbps	
Stream type	Video stream or Video&Audio stream	
Bit rate	32kbps~2Mbps (Self definition)	
Line input for voice talk	1-ch RCA (2.0Vp-p, 1KΩ)	
Audio output	1-ch RCA (Linear Electrical Level, 600Ω)	
Communication interface	1 RJ45 10M/100M UTP network port	
	1 RJ45 RS-232 port	
PTZ control	RS-485 dry node (T+, T-)	
External alarm input	1 input	
Relay output	1 output	
Power supply	DC +5V	
Power consumption	Less than 3W	
Working temperature	-10°C+55°C	
Working humidity	10%90%	
Size with enclosure	70mm*120mm*45mm	

PAL: 176\*144(QCIF), 352\*288(CIF), 704\*288(2CIF), 528\*384(DCIF), 704\*576(4CIF); NTSC: 176\*120(QCIF), 352\*240(CIF), 704\*240(2CIF), 528\*320(DCIF), 704\*480(4CIF). Stabilizer power suppler: input AC 100-240V47-63Hz

# Appendix B Good list

- 1. One piece of DS- 6101HFI-IP video server;
- 2. A CD contains client application;
- 3. One power supply voltage stabilizer
- 4. A 220V power cable;
- 5. A cable connecting RS232 with DTE;

# **Appendix C Customer Information Card**

User's Name	Mr./Mrs.
Company Name	
Post Address	
Postcode	
Phone Number	
E-mail	
Model Number	
of Product	
Serial Number	
of Product	
Purchase Date	
Distributor	
Suggestions:	