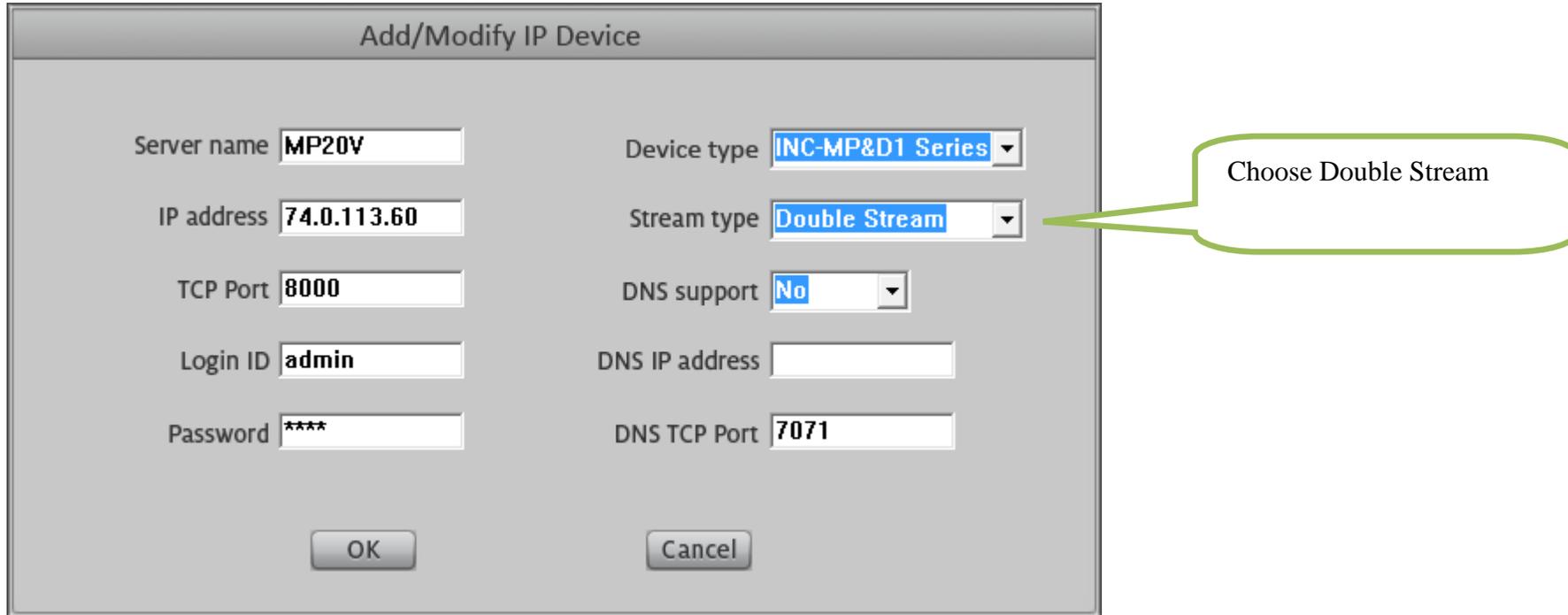


## Mega Pixel IP Camera Configuration Guide

1. Download and install latest version HVR Server software.
2. Setup IP camera connection “Stream Type” as Double Stream (see below picture). Double stream means record at main-stream and preview at sub-stream but full screen preview (1 split) still uses main-stream. This is best setting to save system resources.



The screenshot shows the 'Add/Modify IP Device' configuration window. The fields are as follows:

Field	Value
Server name	MP20V
IP address	74.0.113.60
TCP Port	8000
Login ID	admin
Password	****
Device type	INC-MP&D1 Series
Stream type	Double Stream
DNS support	No
DNS IP address	
DNS TCP Port	7071

At the bottom, there are 'OK' and 'Cancel' buttons. A green callout box points to the 'Stream type' dropdown, containing the text 'Choose Double Stream'.

3. Set I-frame interval number equal to or less than Frame Rate number, this setting means DVR Server can get at least one I- frame every second. If I-frame loss too much, it will buffer a lot of B fame and P frame. Then the system memory usage will expand continuously until the system crash. Please refer to IP camera specification to understand the relationship between Resolution and Frame Rate. Default settings don't mean the best performance setting. For some models of IP camera or old version HVR Server software, there is no I Frame setting in IP Device Setup interface, please enter IE Setup interface (Video Setting) to configure the I Frame Interval.
4. Please don't forget to configure sub-stream video resolution and quality to get best preview video.

IP Device Setup

Device Channel Serial Alarm PTZ User

Channel Camera1 Channel Name INC-MP20V (Miami warehouse)

Compress Para. Setup

Stream Type Main Stream

Image Best Video Type Video Resolution UXGA(1600x1200) Bit Rate VBR

Frame Rate 12 Max Bit Custom 4096 kbps I Frame 12 BP Frame S-P-F

Compression 64 Audio Type OggVorbis

Record Para.

Prerecord Time 5 s Record Delay 5 s

Picture Parameter

Hide Area   Motion Detect

Video Lost

Show OSD X 0  Show Week OSD Not Clarity-Not Glitter

Y 32 Hour Type 24 OSD Type XX-XX-XXXX (MDY)

Channel Name X 240 Y 448

Copy To Channel All

Frame Interval

I Frame Interval

5. Please setup reasonable Pre-alarm record time and Post-alarm record time according your computer performance, specially refer to memory usage.

## Camera Setup

### Individual Setup

Select Camera:  Camera Type:  Name Camera:  Sub-stream:

Work Status:  Frame Rate:  Netsend Image Quality:

Bitrate Type:  Alarm Adjust FPS:  Netsend Resolution:

Image Quality:  Record Resolution:  Netsend Frame Rate:

OSD Support:  Video Archiving Days:  Save I-frame only:

Mask Logo Path:  OSD Gray Scale:  Copy to:

### Group Setup

Select Camera Group:  Record Sub-stream:

Group Camera:

Pre-alarm Record:  Post-alarm Record:  Stream Type:

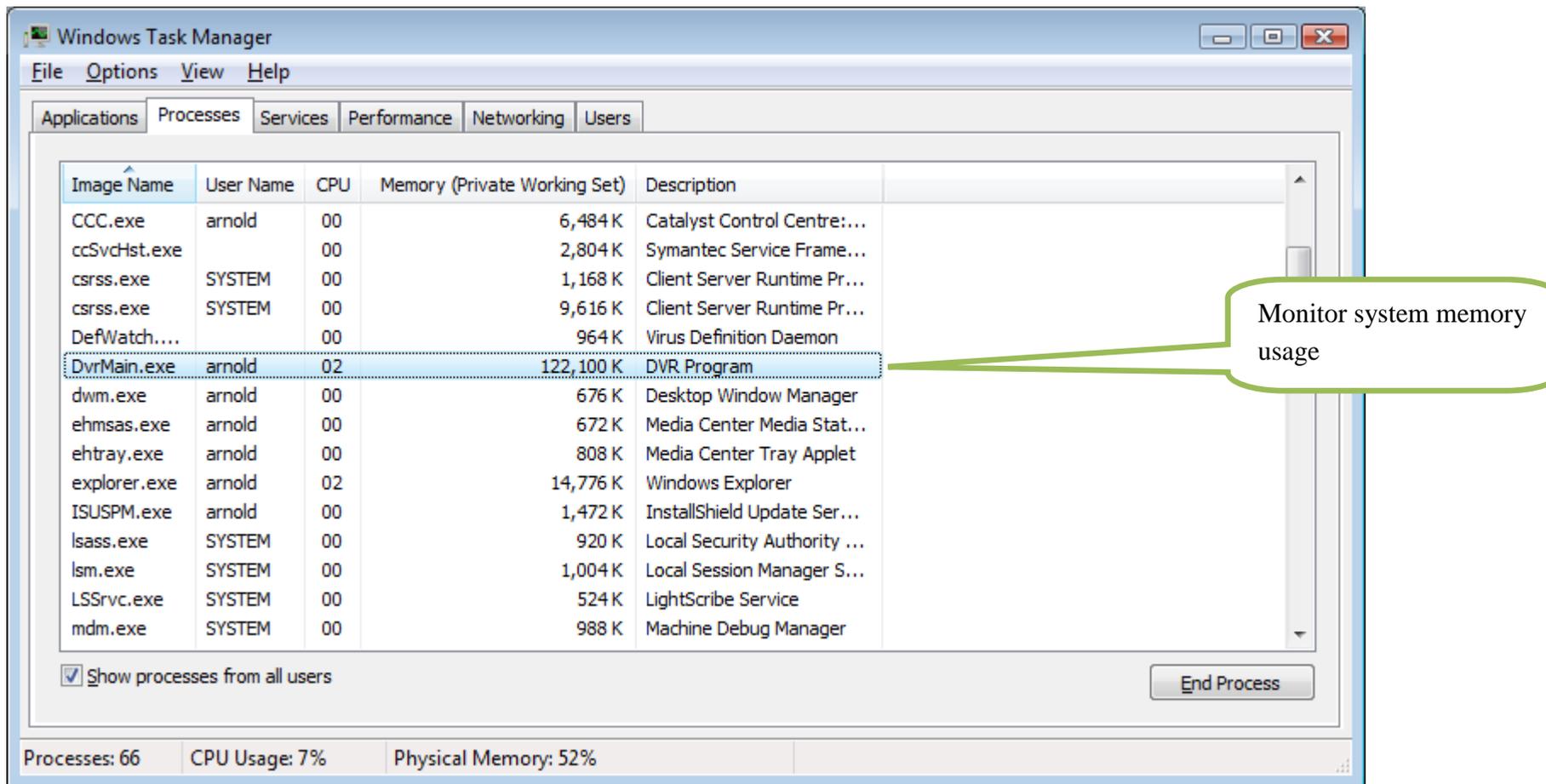
Continuous Record
 Motion Record
 Alarm in Record
 Motion or Alarm in Rec
 Continuous & Motion Rec
 No Record

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUN																								
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								

Apr 18, 2012  
PM 02:34:10

Pre-alarm record and Post-alarm record

6. If you setup Video Analytics, please open Windows Task Manager to track the system resources. If the Memory usage of DvrMain.exe exceed 1.5GB (1,500,000K) for long time, the system is easy to crash because other operation might increase memory usage such as Live Center connection.



- Use dual network interface to accelerate network speed and separate local office working network. If you share your local office network with IP video surveillance, the huge video stream data might slow down the network speed. To avoid this happen, you should build a dedicated network for surveillance and add second network card to your system, use one network interface to connect IP cameras, use another network interface to connect local office working network.  
Please refer to following picture to configure second network interface. In order to enable HVR Server to recognize the second IP address, you must use Route Add commander to add a permanent route table.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 192 . 168 . 1 . 3

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

Validate settings upon exit

Advanced...

OK Cancel

Don't input Default gateway

Add permanent route table

```
Administrator: C:\Windows\system32\cmd.exe
```

```
C:\Users\64WIN7>Route add 192.168.1.0 mask 255.255.255.0 192.168.1.1 -p
```