

How to configure DVR and computer for running Remote Viewer via IP network

Follow these steps to configure a network DVR and a computer with Remote Viewer software to see live pictures via IP network.

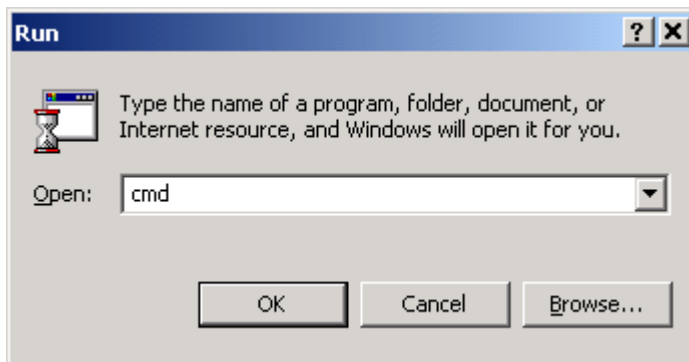
Requirements

- A Local Area Network(LAN) connects both DVR and computer.
- A router connects the LAN to internet via DSL/CABLE connection to view live pictures via Wide Area Network (WAN) is desired.
- DVR Remote Viewer software on CD or download from our website.

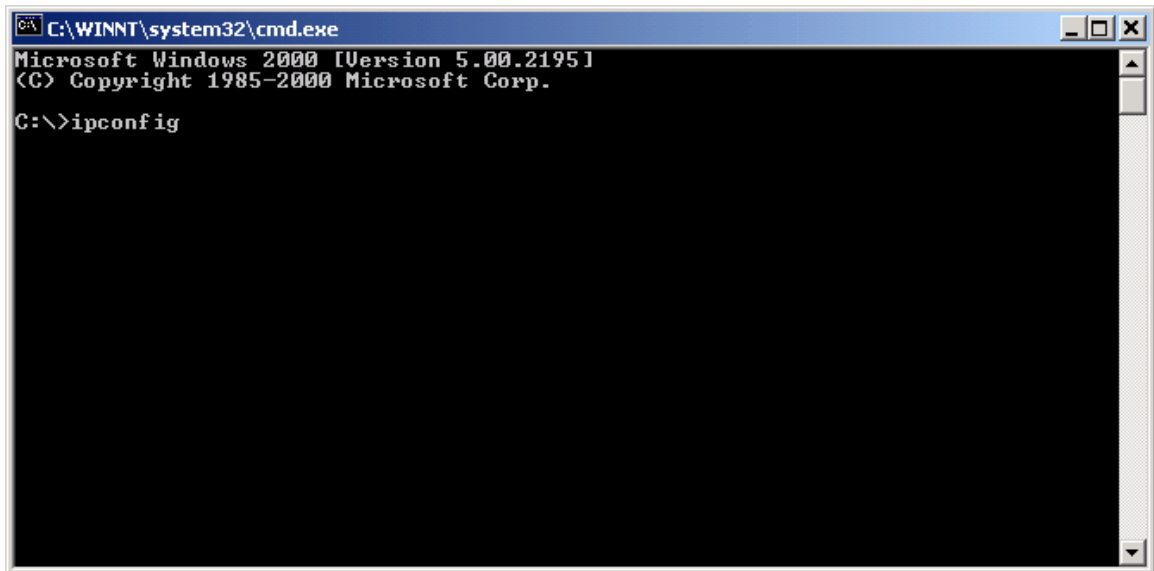
Note: Please substitute the IP address, subnet mask, and default gateway with your TCP/IP settings. The IP addresses 206.196.143.200 for DVR and 206.196.143.115 for computer are for demonstration only.

Step 1: Find the TCP/IP settings of your network

Use a network connected computer, click **Start, Run...**, in the **Open** field, type **cmd** and click **OK** button to open the MS-DOS Command Prompt windows



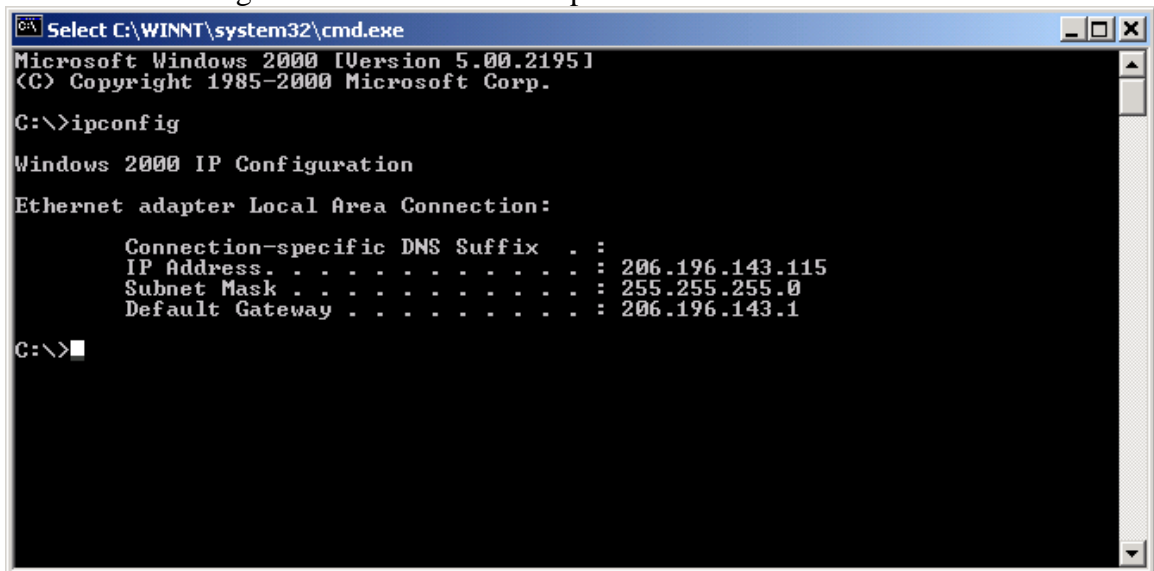
From the Command Prompt windows, at C:\> prompt, type **ipconfig** and press the **Enter** key



```
C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>ipconfig
```

The TCP/IP settings for this networked computer will look like this:



```
Select C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>ipconfig

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 206.196.143.115
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 206.196.143.1

C:\>■
```

From this screen, you can see the IP configuration of your network and this computer. Write down these numbers on a piece of paper as follows:

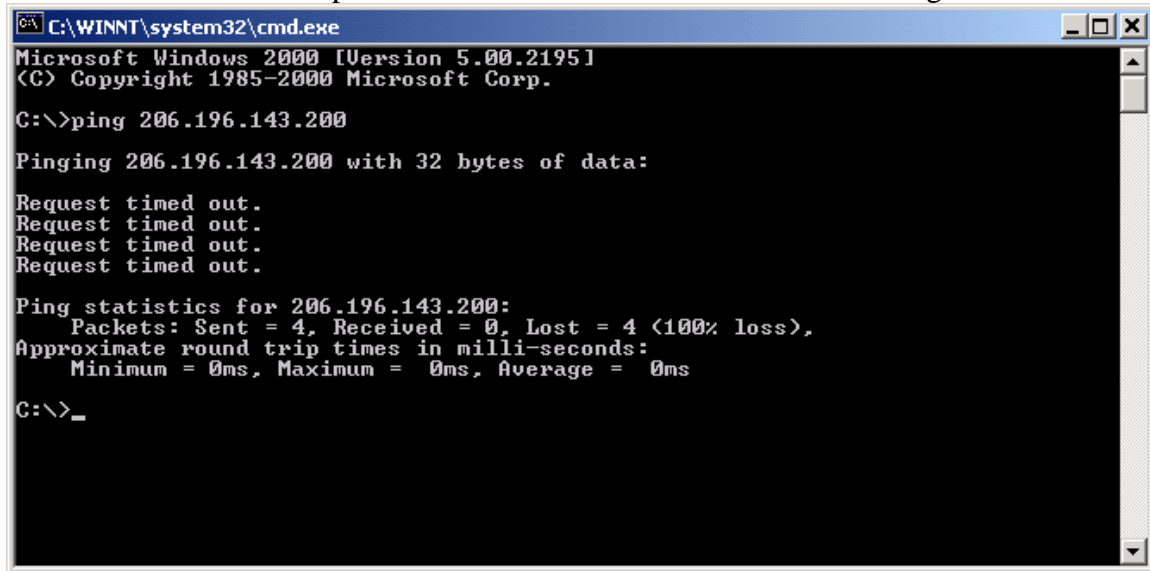
- IP address is 206.196.143.115
- Subnet Mask is 255.255.255.0
- Default Gateway is 206.196.143.1

Step 2: Obtain a static IP address for the DVR.

A typical router has DHCP function which will dynamically assign an IP address when a device requests an IP address. You should use a static IP address which is

outside the DHCP assigned range so that the IP address for DVR will not change over the time. For example, we use 206.196.143.200 as IP address for DVR.

Check the IP address to make sure it has not been assigned to any device in the network. Open the MS-DOS Command Prompt windows, at **C:\>** prompt type **ping 206.196.143.200** and press **Enter** to see if this address has been assigned to a device.



```
C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.
C:\>ping 206.196.143.200

Pinging 206.196.143.200 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 206.196.143.200:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>_
```

From this screen, you can tell that the IP address of 206.196.143.200 has not been assigned to any device at this time because all four responses are “**Request timed out.**” And therefore you can assign this address for DVR.

Step 3: TCP/IP Setup in DVR unit

Connect DVR to network - Use a cat-5 network cable connect to the RJ-45 port and network.

A. Set IP address, subnet mask, and default gateway for DVR.

- Turn on the DVR, press the **MENU** button and then **ENTER** button.
- Use up/down arrow key to move the select item to **TCP/IP Setup** and press **Enter** button.
- Use number key to enter the IP address 206.196.143.200 on the screen. For 16-channel, keypad “**10**” means “**0**”, for **1-9** use keypad of “**1**” to “**9**”.
- Enter the subnet mask number, typical local area network is “255.255.255.0”
- Enter default gateway obtained at step 1.
- When these three numbers are entered, press **MENU** button to keep the value and Exit the field.

B. Do the same to enter the port number of “**8000**” and press **MENU** button to exit.

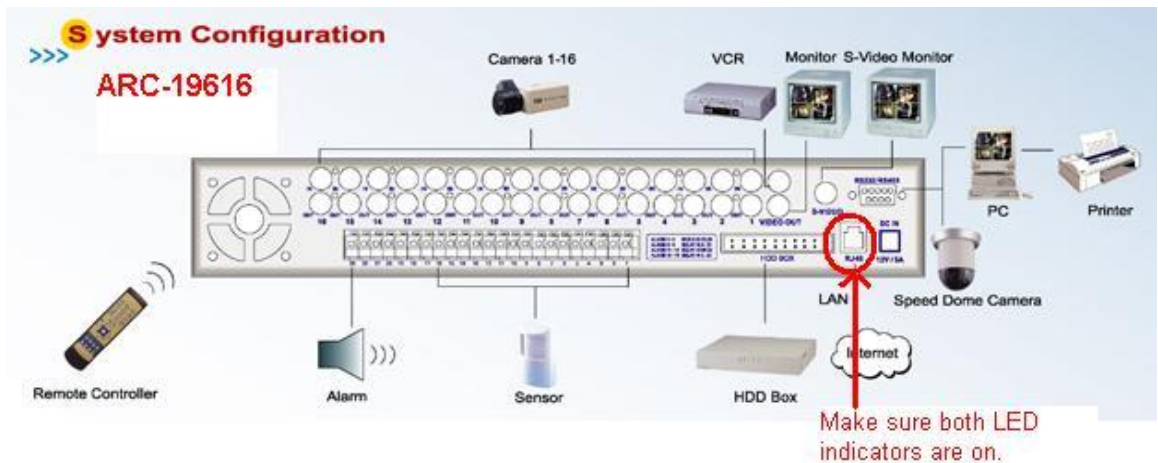
Once all values have been enter, press **MENU** button to exit. Now you have the screen.

C. Check the following:

- a. Ensure that the system record (rec) indicator light is on and in red color.



- b. Look the back of DVR and make sure the network cable is properly connect to DVR. The two indicator lights on the RJ-45 port are on with green and amber color.



If the two LED indicators on the RJ-45 port is not lighted, check network cable connection is properly down or wall RJ-45 port is good.

Troubleshooting tip - You can connect the same cable to a computer rather than the DVR to see if all connection is working properly.

Step 4: Install DVR Remote Viewer software and configure settings on Computer

- A. Check IP network connection between DVR and computer.
 - a. From the network connected computer, open a MS-DOS Command Prompt window.
 - b. From MS-DOS Command Prompt windows, at **C:\>** prompt, type **ping 206.196.143.200** and press **Enter** key.

c. If you see 4 packets was sent and received, it means the connection is working properly.

B. Put your DVR Remote Viewer CD in your CD-ROM. Or Download the Remote viewer software to your computer.

C. Double-click the Remote Viewer16_ 1.0.exe file to install the software on your

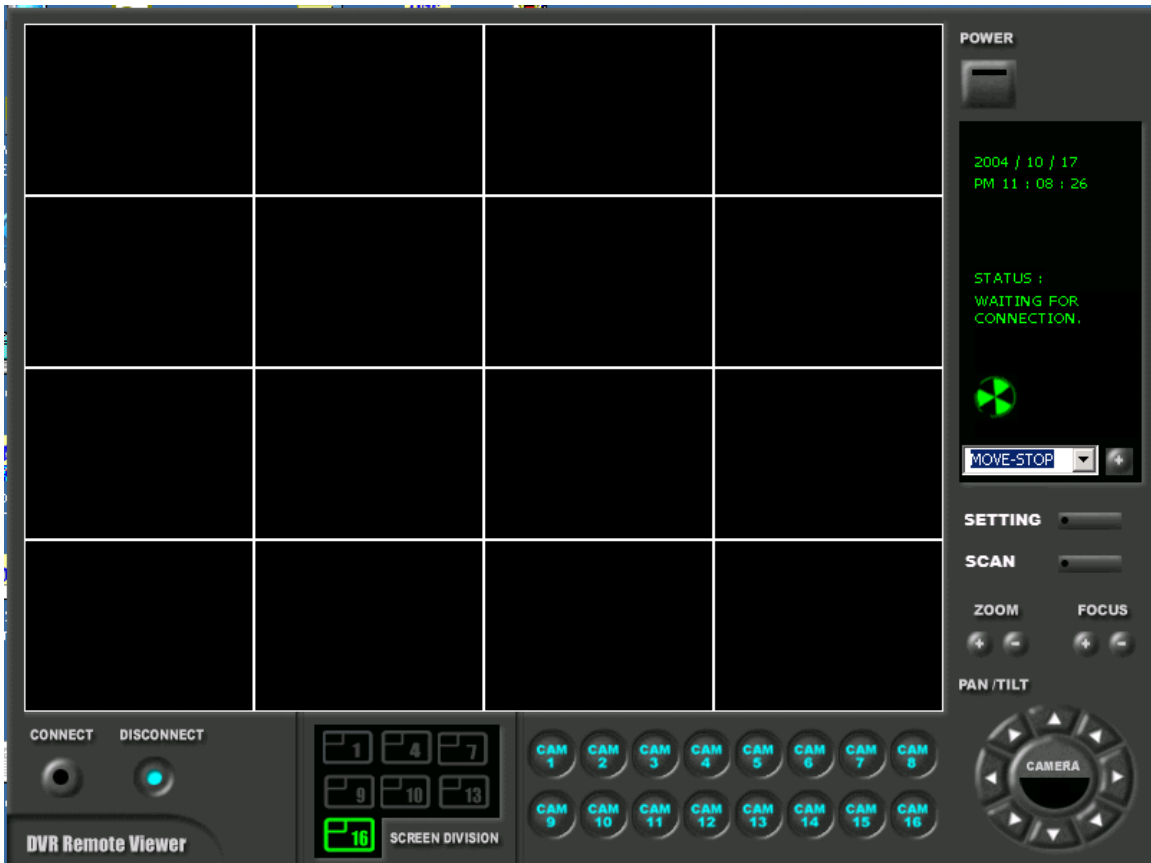


computer. After the installation, an icons **Dvr Remote Viewer16.Ink** will be created on desktop.

D. Configure the Remote viewer ----



Double-Click the icon **Dvr Remote Viewer16.Ink** to run Remote Viewer 16.



E. Click the **SETTING** button on the right to bring up the configuration window.

Configurations

Connections | User Pan tilt Command

CONNECTION

Name: UNTITLE

IP Address: 206 . 196 . 143 . 200

Port: 8000

User ID:

Password:

OPTION

Circula Monitoring Interval: 01 SEC

Scan Rate: 64X

Reconnecting Count: 4

Run in Full Screen Mode

Receive Event

SAVE OPTION

Set Path to Save Recorded:

Set Record Interval: 05SEC

Display Date

F. Set the IP Configurations

- a. In the **IP Address** field, type the IP Address you set for DVR at previous step (e.g., 206.196.143.200)
- b. In the **Port** field, always type 8000.
- c. In the **User ID** field, leave it blank.
- d. In the **Password** field, leave it blank.
- e. Click the **OK** button

G. Click the **CONNECT** button on the Remote viewer screen to connect to DVR.

You can see the circular fan on status window is rotating when connection is activated. Now you can see the live pictures on the screens.