



## Question: How can I connect two CCTV networkable devices together using a crossover cable?

**Answer:** A standard network patch cable has all of its conductors wired straight through. A crossover cable reverses the transmit and receive conductors thus eliminating the need to use additional equipment.

There are many networkable devices around today. From PCs, printers to DVRs, engineering machinery and even household appliances. Two devices can be connected using a hub, a switch or a simple crossover cable.

A standard network patch cable has all of its conductors wired straight through, ie: pin 1-to-1, 2-to-2, 3-to-3 and so on. A crossover cable reverses the transmit and receive conductors 1-to-3 and 2-to-6 thus eliminating the need to use additional equipment.

### IP Address Considerations

If you are using TCP/IP as the common protocol you must ensure that both are correctly configured. You must:

- Enter an appropriate IP address into each device
- Enter the same subnet mask into each device

We suggest the following values for such devices:

**DVR: IP address = 192.168.1.111 Subnet mask = 255.255.255.0**

**PC: IP address = 192.168.1.100 Subnet mask = 255.255.255.0**

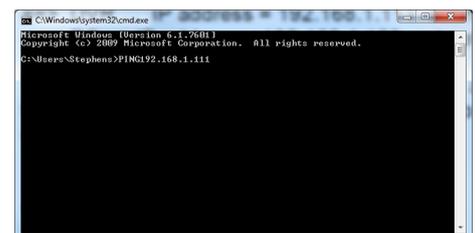
The gateway address is not used when devices are not connected together in this manner so can be left blank. Even if the gateway has an address entered, it will not be used if the IP addresses and subnet masks are entered as suggested.

### Testing the connection

Connect the devices together with the crossover cable and check that the LED indicators light up on each device then test the connection using "Ping." To do this:

1. Click on Start, Run
2. Enter CMD & click on ok
3. in the DOS window that appears, type **PING 192.168.1.111** [enter]

You should see 4 x replies from the DVR in response to this PING command.



This CCTV installation tip is aimed at helping you to install CCTV equipment. If you are looking for answers on "how to fit CCTV" or perhaps "how to network a DVR or NVR" or even "how to get CCTV on your mobile phone" why not check out our full range of CCTV installation tips at: [www.systemq.com](http://www.systemq.com)

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