IP Video Server Basic Wiring Guide

1.2 Physical interface socket Pin definition

1.2.1 Standard RS232 port RJ-45scoket Pin definition

video server supplies a RS232 standard port，adopt 1-45 socket definition of each pin is below, I means video server input, O means video server output.。
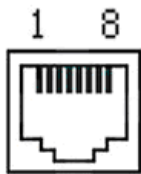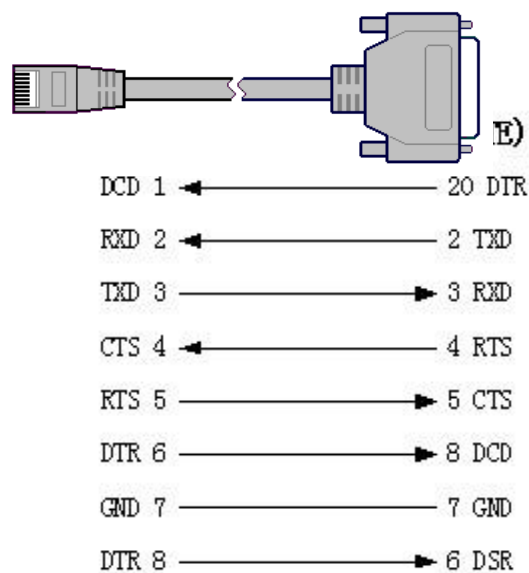

Chart 2.1 RJ-45

2.1 RS232 RJ-45 define

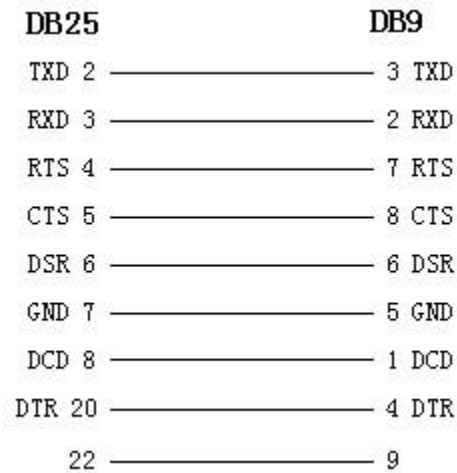| PIN	Dec.	I/O	explain
1	DCD	I	carrier wave in effect
2	RxD	I	Receive Data
3	TxD	O	Send Data
4	CTS	I	Clear
5	RTS	O	Request
6	DTR	O	Ready
7	GND		
8			

（1） when video server's port is connected with DTE/DCE equipment, one side of the cable is RJ45 socket the other side is DB25 bore style socket. 25 cores bore style socket. The way to connect 25 cores bore style socket with RJ45 is below:
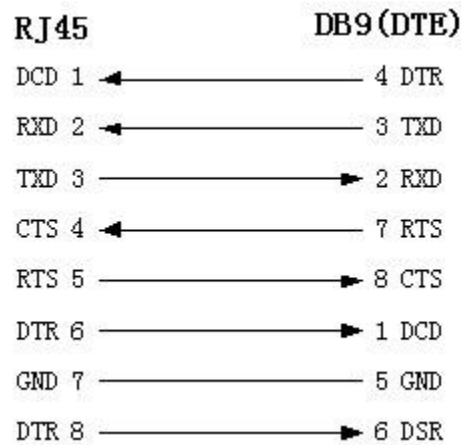
（2）

DCD 1 ◄————— 20 DTR

RXD 2 ◄————— 2 TXD

TXD 3 —————► 3 RXD

CTS 4 ◄————— 4 RTS

RTS 5 —————► 5 CTS

DTR 6 —————► 8 DCD

GND 7 ————— 7 GND

DTR 8 —————► 6 DSR

picture2.2 the connection with RJ45 and DB25（DTE）

（3） the way to connect 25 cores bore style socket with 9 cores bore style socket conversion is below：

```
       DB25                          DB9

  TXD  2  ———————————————  3 TXD

  RXD  3  ———————————————  2 RXD

  RTS  4  ———————————————  7 RTS

  CTS  5  ———————————————  8 CTS

  DSR  6  ———————————————  6 DSR

  GND  7  ———————————————  5 GND

  DCD  8  ———————————————  1 DCD

  DTR 20  ———————————————  4 DTR

       22  ———————————————  9
```
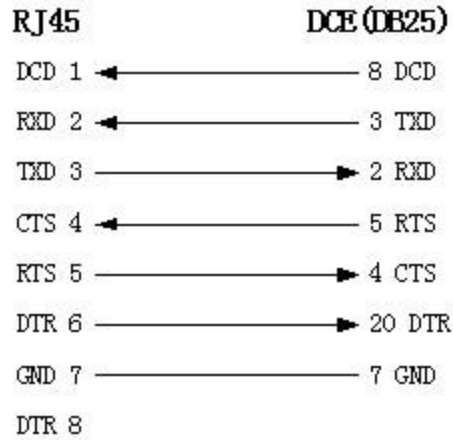
picture2.3 the connection with DB25 and DB9

（3）the cable connect video server with DTE(terminal) equipment
one side of the cable is 8 cores RJ45 socket, the other side is DB9 core style socket.

```
       RJ45                         DB9 (DTE)

  DCD  1  ◄———————————————  4 DTR

  RXD  2  ◄———————————————  3 TXD

  TXD  3  ———————————————►  2 RXD

  CTS  4  ◄———————————————  7 RTS

  RTS  5  ———————————————►  8 CTS

  DTR  6  ———————————————►  1 DCD

  GND  7  ———————————————  5 GND

  DTR  8  ———————————————►  6 DSR
```

picture 2.4   the connection with RJ45 and DB9

（4） when connect video server's port with DCE（MODEM）equipment, one side of the cable is 8 cores RJ45 socket, the other side is DB25 needle style socket. the connection with 25 cores bore socket and RJ45 is below:

RJ45   DCE (DB25)

DCD 1 ◄————————————— 8 DCD
RXD 2 ◄————————————— 3 TXD
TXD 3 —————————————► 2 RXD
CTS 4 ◄————————————— 5 RTS
RTS 5 —————————————► 4 CTS
DTR 6 —————————————► 20 DTR
GND 7 ————————————— 7 GND
DTR 8

picture 2.5 the connection with RJ45 and DB25（DCE）

12.2 Connection for RS485 port to RJ-45 socket pin

1   8

RXD+   3 ◄—————
RXD−   4 ◄—————
TXD+   1 —————►
TXD−   2 —————►
GND   7