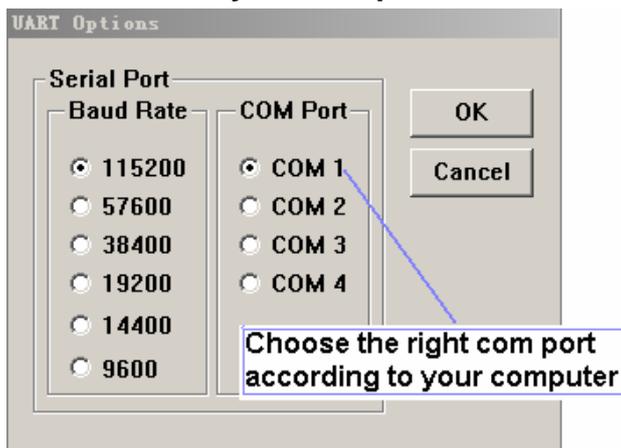# RS232 operation instructor

1、Hardware Environment & Connections

1） For RS232 operation, the devices are as follows:
PC, RS232 Cable, DVR
If there is only laptop computer, USB to RS232 cable is required.
2） Connection Mode is as follows:
PC --- RS232 cable --- DVR

DVR to laptop computer   DVR to pc

2、RS232 operation

1） **Run *NOCM* in your computer, the com set is as follows:**

2） **Get the serial port information from DVR**
A、Restart the DVR ，Click 3 * (upper right on number pad) when the words Hit any key to stop autoboot are on screen.
B、Now you can enter setup interface, and will see s3c2510 # in the screen
C、Type appauto 0
dh_keyboard 0
save

then you will get the RS232 information from the DVR

D、Type "printenv" to show some information of the DVR
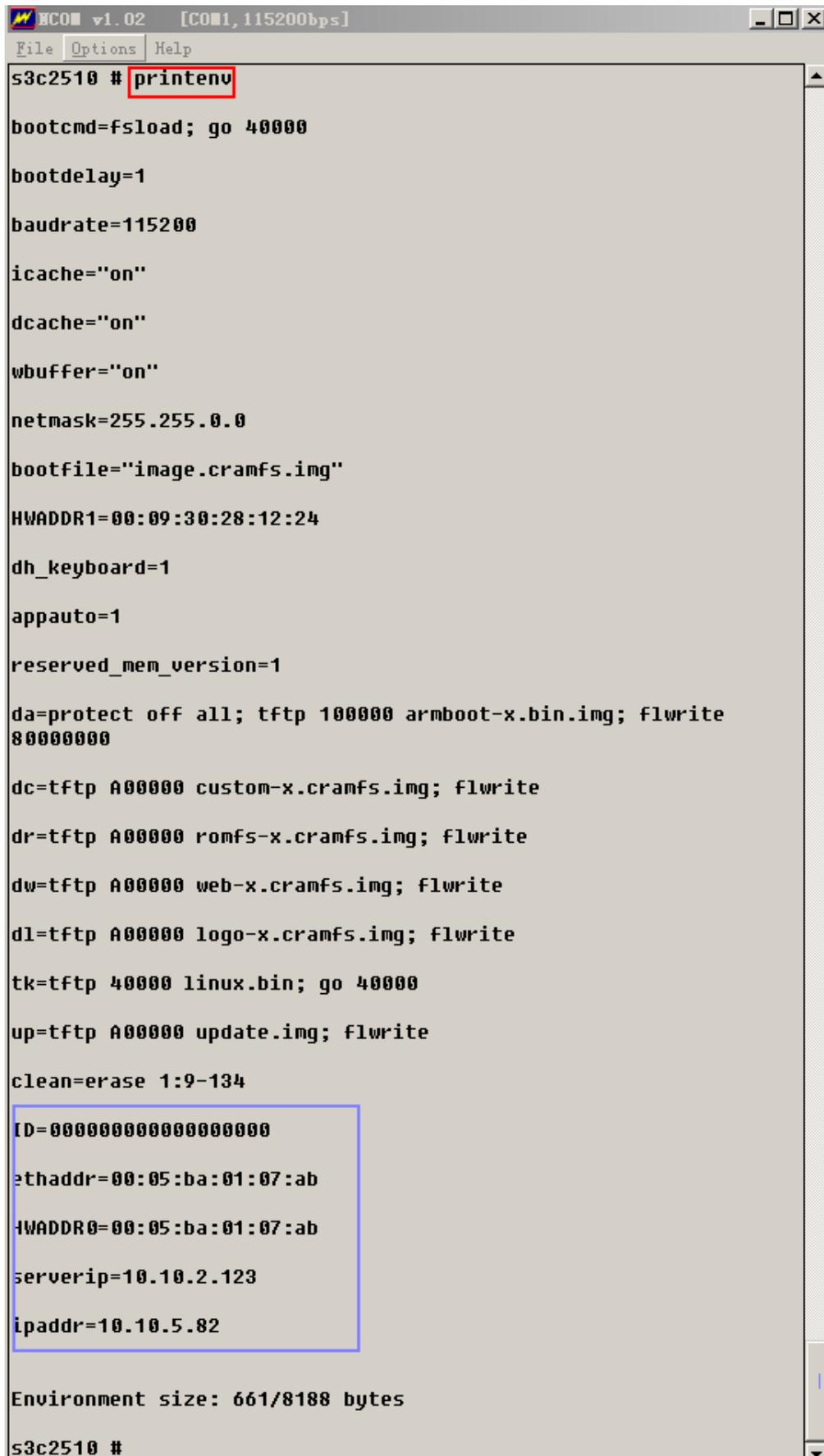
```
s3c2510 # printenv

bootcmd=fsload; go 40000

bootdelay=1

baudrate=115200

icache="on"

dcache="on"

wbuffer="on"

netmask=255.255.0.0

bootfile="image.cramfs.img"

HWADDR1=00:09:30:28:12:24

dh_keyboard=1

appauto=1

reserved_mem_version=1

da=protect off all; tftp 100000 armboot-x.bin.img; flwrite
80000000

dc=tftp A00000 custom-x.cramfs.img; flwrite

dr=tftp A00000 romfs-x.cramfs.img; flwrite

dw=tftp A00000 web-x.cramfs.img; flwrite

dl=tftp A00000 logo-x.cramfs.img; flwrite

tk=tftp 40000 linux.bin; go 40000

up=tftp A00000 update.img; flwrite

clean=erase 1:9-134

ID=000000000000000000

ethaddr=00:05:ba:01:07:ab

HWADDR0=00:05:ba:01:07:ab

serverip=10.10.2.123

ipaddr=10.10.5.82


Environment size: 661/8188 bytes

s3c2510 #
```

E、Restart the DVR or type booted to startup the DVR

　　Illustration below is the operation interface.

F、When you open the RS232 information, the DVR will not startup itself, and will stop
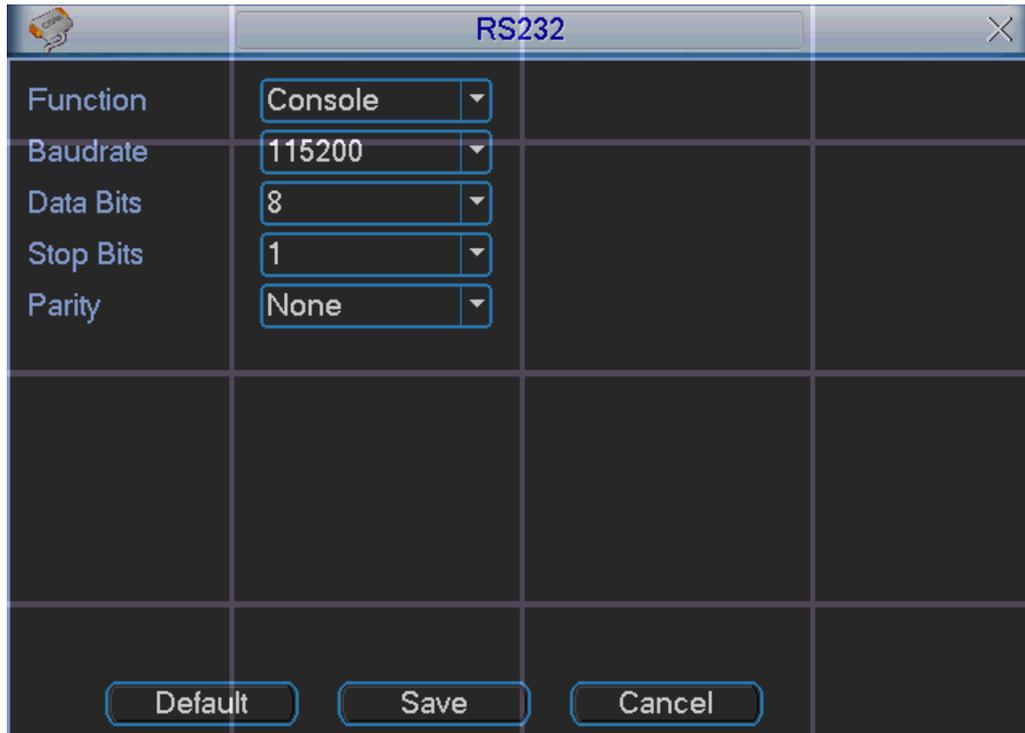at   Sash command shell (version 1.1.1)
　　/>
You need to type ii to startup the DVR

D、Set RS232 settings of the DVR as follows

E、All the information can be found in the ncom log file
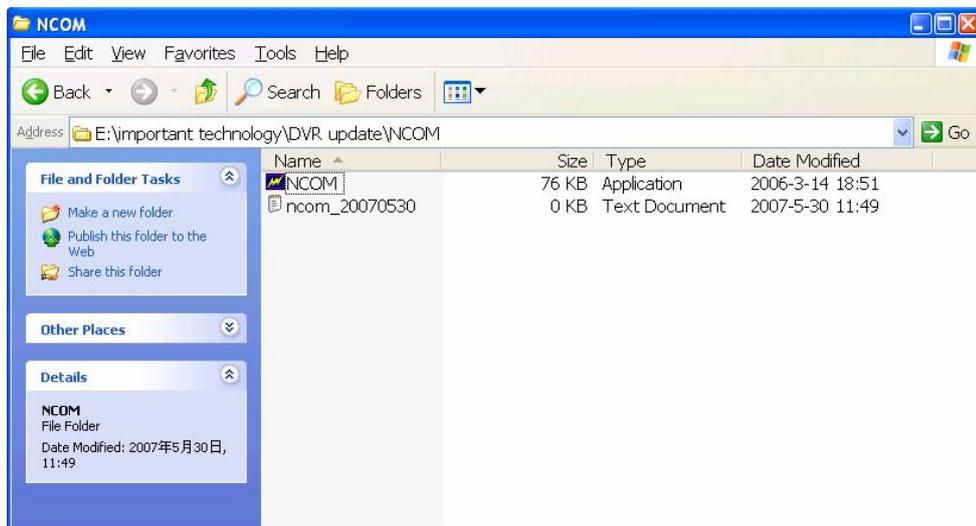
3）Close the serial port information printing of the DVR
We need to set DVR to this state before it is sent to customer

For most users they do not need to open the serial port printing of the DVR, so we must close before the DVR is sent to the users
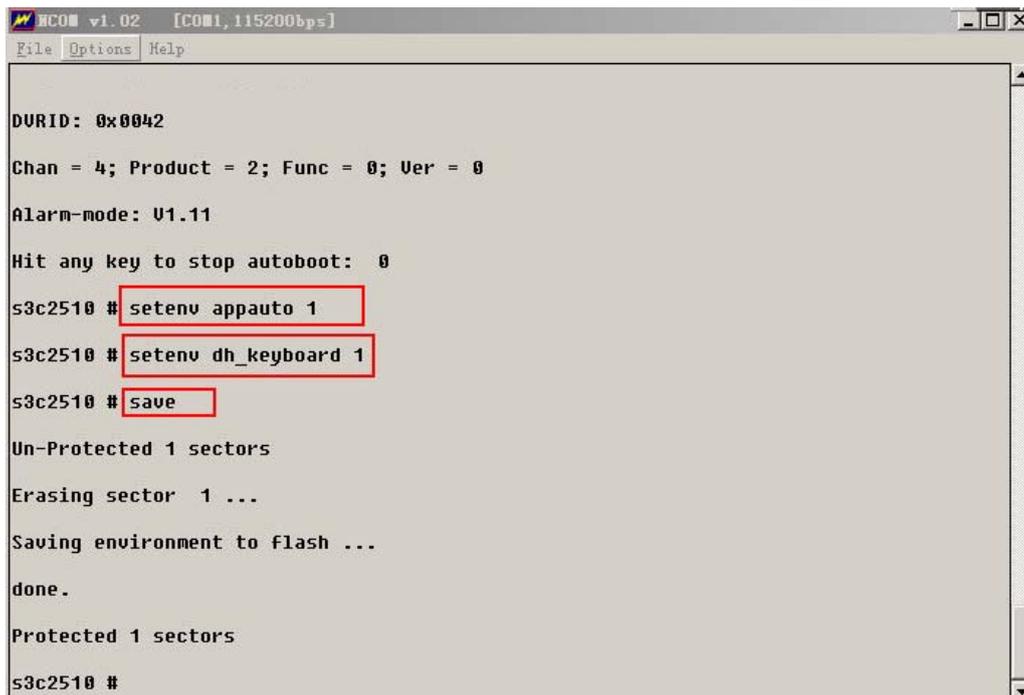
The operation is the same

A、Restart the DVR ，Click 3 *   to enter setup interface, and will see s3c2510 # in the screen

C、Type appauto 1
        dh_keyboard 1
        save

D、Restart the DVR or type booted to startup the DVR

Illustration below is the upgrade interface.

```
MCOM v1.02   [COM1,115200bps]                          _ □ X
File Options Help

DVRID: 0x0042

Chan = 4; Product = 2; Func = 0; Ver = 0

Alarm-mode: V1.11

Hit any key to stop autoboot:   0

s3c2510 # setenv appauto 1

s3c2510 # setenv dh_keyboard 1

s3c2510 # save

Un-Protected 1 sectors

Erasing sector   1 ...

Saving environment to flash ...

done.

Protected 1 sectors

s3c2510 #
```

More Details

If you still have any problems about these functions, please contact with our engineers.