

TFTP upgrade instructor

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1、Hardware Environment & Connections

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

DVR to pc

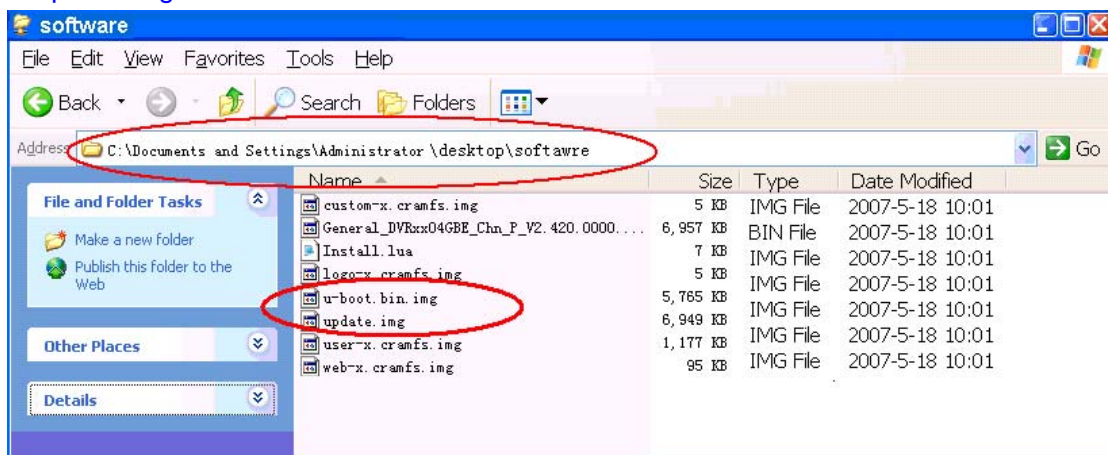


2、TFTP Upgrade

1) Unzip the upgrade software to you PC

make sure there is this file

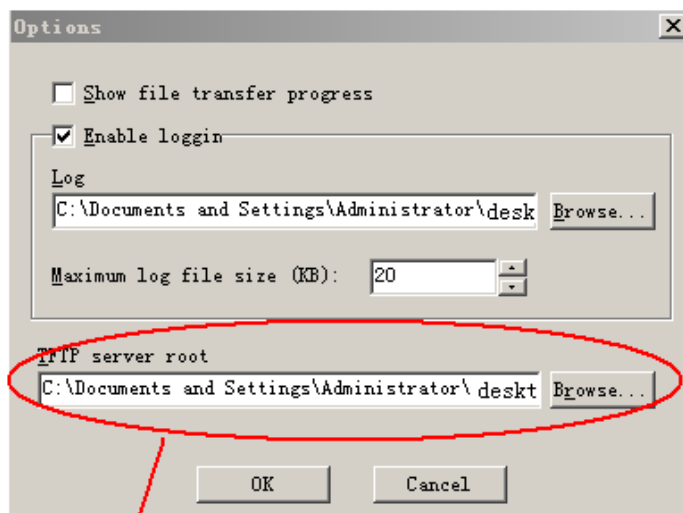
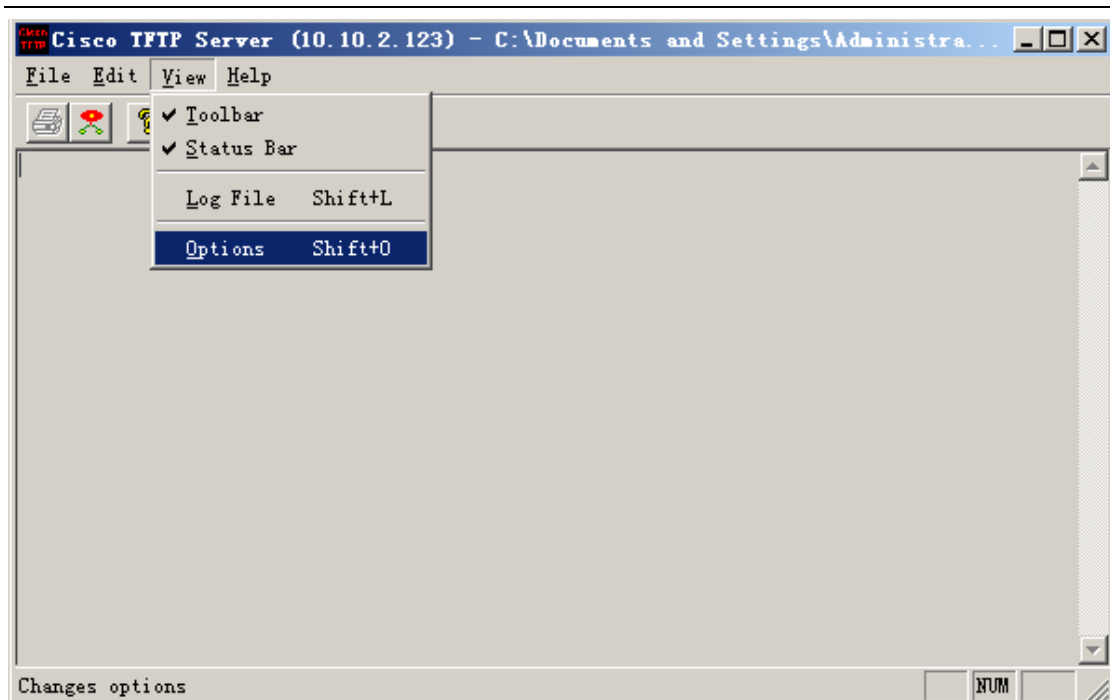
[update.img](#)



2) Run TFTP server

A、Run TFTP server: [TFTPServer_En.exe](#)

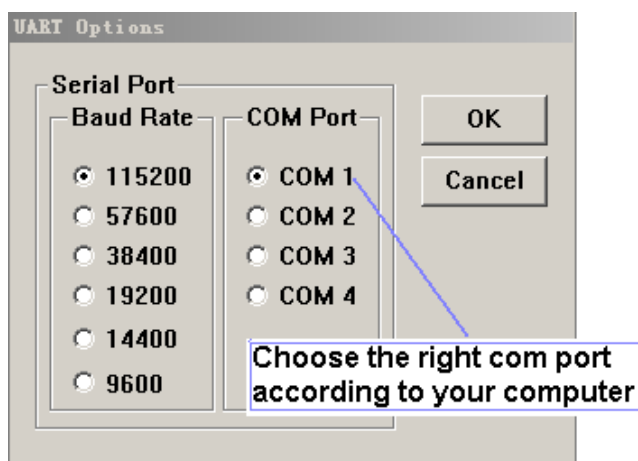
B、Set the upgrade route in the TFTP server, please see the picture below



C:\Documents and Settings\Administrator\desktop\software

where the upgrade software located

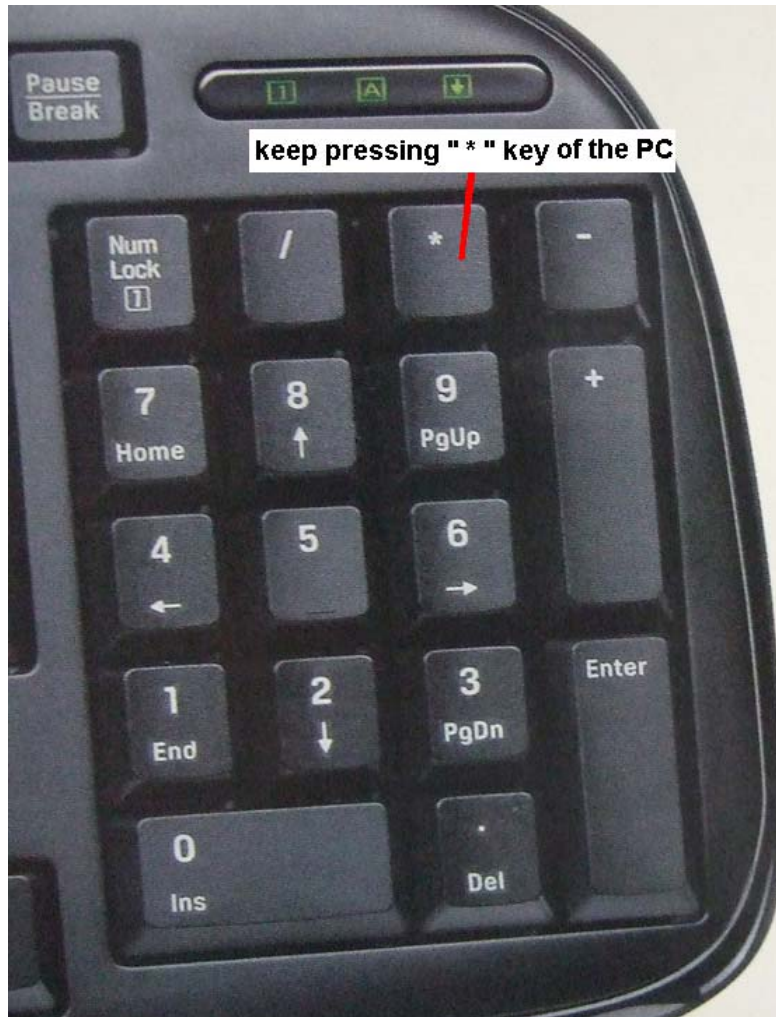
3) Run **NOCM** in your computer, the com set is as follows:



Choose the right com port according to your computer

4) See RS232 parameter

- A、Restart the DVR , press “ * ” key of your PC keyboard 3 times (upper right on number pad) when the words **Hit any key to stop autoboot** are on screen.



- B、Now you can enter TFTP menu, and will see **DVR>** in the screen

```
WDCOM v1.02 [COM1,115200bps]
File Options Help

U-Boot 1.3.1 (Sep  1 2009 - 17:24:57) - [32-bit mode]

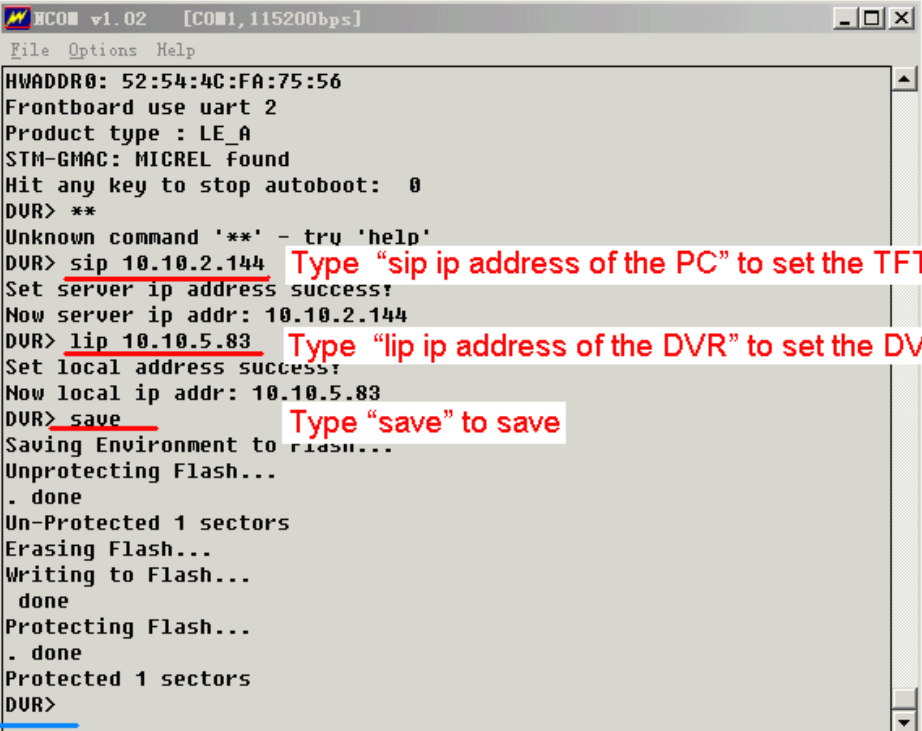
DRAM: 256 MiB
NOR:  16 MiB
In:   serial
Out:  serial
Err:  serial
Serial: YA9FA0220010
HWADDR0: 52:54:4C:FA:75:56
Frontboard use uart 2
Product type : LE_A
STM-GMAC: MICREL found
Hit any key to stop autoboot:  0
DVR> ***
```

keep input ***** as soon as you power on the DVR

5) TFTP upgrade

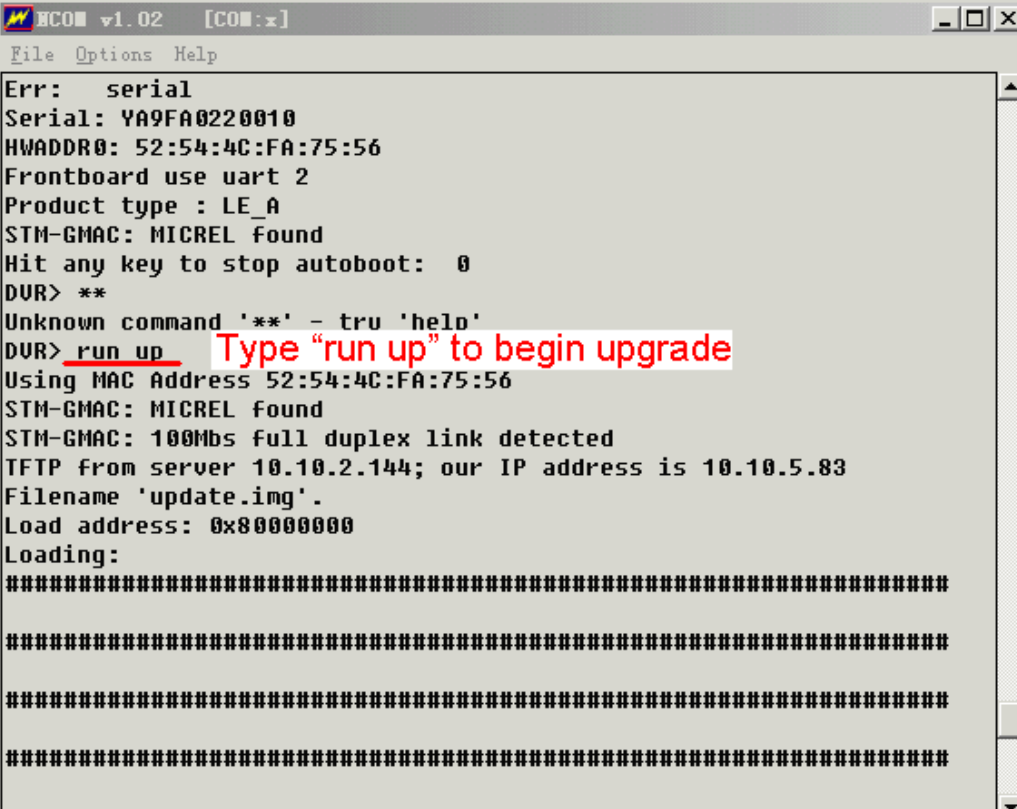
For DVR with New version software

- A、 Type “sip ip address of the PC” to set the TFTP server ip
Type “lip ip address of the DVR” to set the DVR ip
Type “save” to save



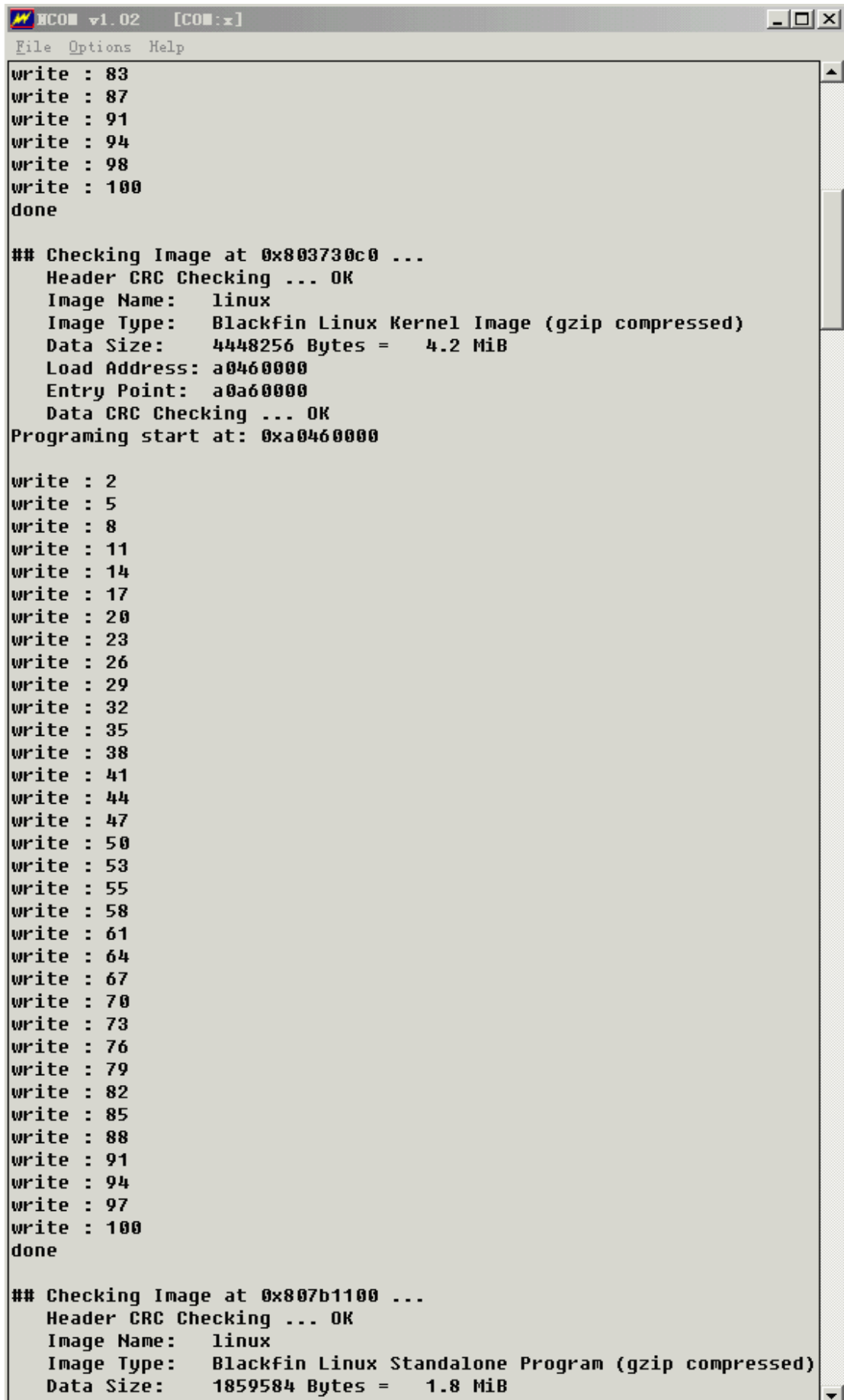
```
WCOM v1.02 [COM1,115200bps]
File Options Help
HWADDR0: 52:54:4C:FA:75:56
Frontboard use uart 2
Product type : LE_A
STM-GMAC: MICREL found
Hit any key to stop autoboot: 0
DVR> **
Unknown command '**' - try 'help'
DVR> sip 10.10.2.144 Type "sip ip address of the PC" to set the TFTP server ip
Set server ip address success!
Now server ip addr: 10.10.2.144
DVR> lip 10.10.5.83 Type "lip ip address of the DVR" to set the DVR ip
Set local address success!
Now local ip addr: 10.10.5.83
DVR> save Type "save" to save
Saving Environment to flash...
Unprotecting Flash...
. done
Un-Protected 1 sectors
Erasing Flash...
Writing to Flash...
done
Protecting Flash...
. done
Protected 1 sectors
DVR>
```

- B、 Restart the DVR , press * to Enter the TFTP menu again
Type “run up” to begin upgrade



```
WCOM v1.02 [COM1:x]
File Options Help
Err: serial
Serial: YA9FA0220010
HWADDR0: 52:54:4C:FA:75:56
Frontboard use uart 2
Product type : LE_A
STM-GMAC: MICREL found
Hit any key to stop autoboot: 0
DVR> **
Unknown command '**' - try 'help'
DVR> run up Type "run up" to begin upgrade
Using MAC Address 52:54:4C:FA:75:56
STM-GMAC: MICREL found
STM-GMAC: 100Mbps full duplex link detected
TFTP from server 10.10.2.144; our IP address is 10.10.5.83
Filename 'update.img'.
Load address: 0x80000000
Loading:
#####
#####
#####
#####
```

C、 The upgrade process



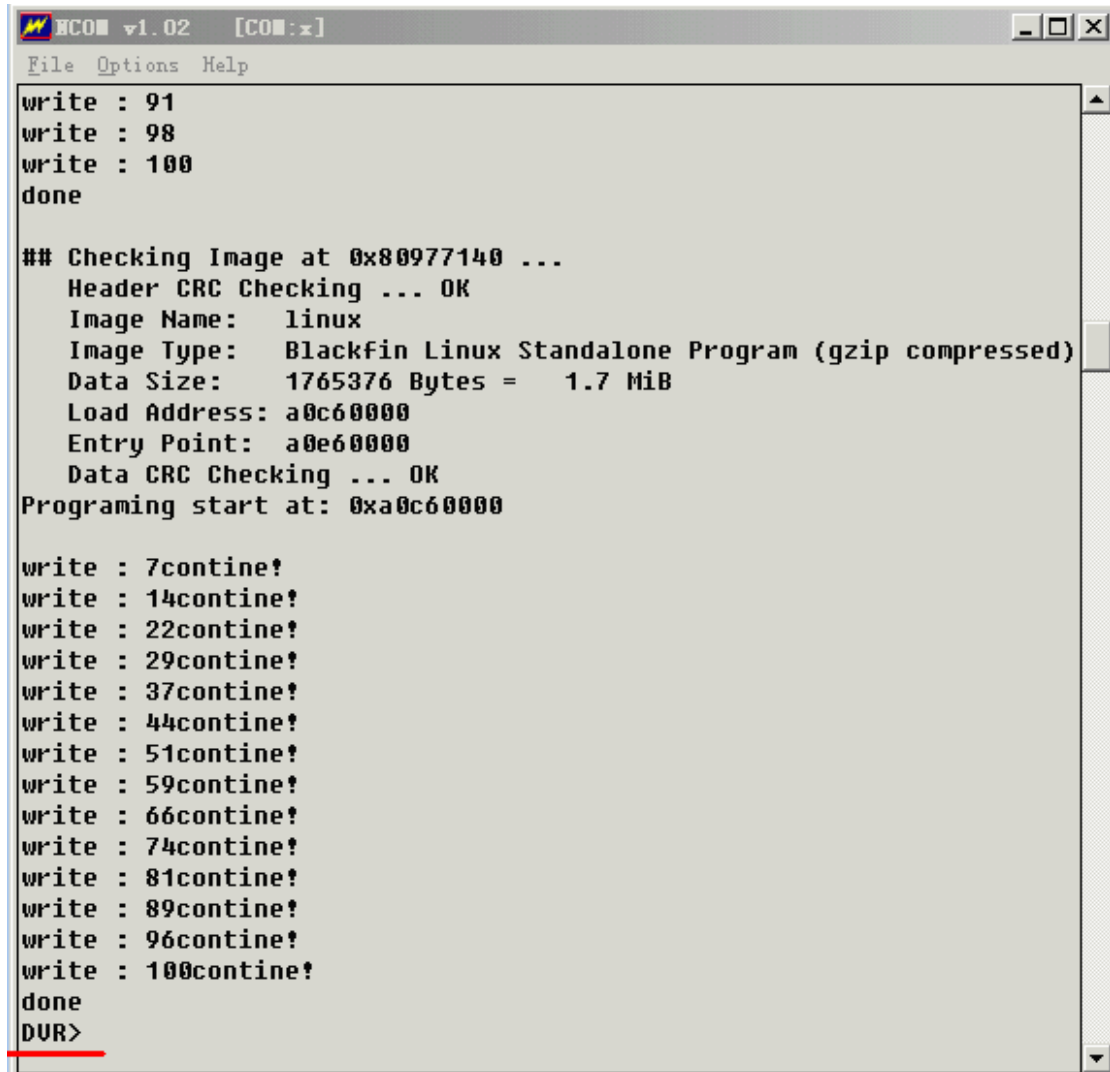
```
CO# v1.02 [CO#:]
File Options Help
write : 83
write : 87
write : 91
write : 94
write : 98
write : 100
done

## Checking Image at 0x803730c0 ...
Header CRC Checking ... OK
Image Name: linux
Image Type: Blackfin Linux Kernel Image (gzip compressed)
Data Size: 4448256 Bytes = 4.2 MiB
Load Address: a0460000
Entry Point: a0a60000
Data CRC Checking ... OK
Programing start at: 0xa0460000

write : 2
write : 5
write : 8
write : 11
write : 14
write : 17
write : 20
write : 23
write : 26
write : 29
write : 32
write : 35
write : 38
write : 41
write : 44
write : 47
write : 50
write : 53
write : 55
write : 58
write : 61
write : 64
write : 67
write : 70
write : 73
write : 76
write : 79
write : 82
write : 85
write : 88
write : 91
write : 94
write : 97
write : 100
done

## Checking Image at 0x807b1100 ...
Header CRC Checking ... OK
Image Name: linux
Image Type: Blackfin Linux Standalone Program (gzip compressed)
Data Size: 1859584 Bytes = 1.8 MiB
```

- D、 Wait until you see **DVR>** in the screen again, the whole process took about 5 to 7 minutes



```
NCOM v1.02 [COM:x]
File Options Help

write : 91
write : 98
write : 100
done

## Checking Image at 0x80977140 ...
Header CRC Checking ... OK
Image Name: linux
Image Type: Blackfin Linux Standalone Program (gzip compressed)
Data Size: 1765376 Bytes = 1.7 MiB
Load Address: a0c60000
Entry Point: a0e60000
Data CRC Checking ... OK
Programing start at: 0xa0c60000

write : 7continue!
write : 14continue!
write : 22continue!
write : 29continue!
write : 37continue!
write : 44continue!
write : 51continue!
write : 59continue!
write : 66continue!
write : 74continue!
write : 81continue!
write : 89continue!
write : 96continue!
write : 100continue!
done
DVR>
```

- E、 Restart the DVR (or wait the DVR will auto restart), and that's all

6) Upgrade Failure

- 1、 To check if the RS232 serial port and serial cable is OK
- 2、 To check if the network connection is OK
- 3、 To check if the mac address of the DVR is right
- 4、 To check if the upgrade software is in the right folder and with right name
- 5、 To check if the NCOM and TFTP software is running
- 6、 Upgrade by TFTP upgrade again
- 7、 After several times attempt, if there is still have problems, please contact with our technical engineers.

More Details

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