2、RS232 operation

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



2) Enter RS232 operation

A. Power on the IP Camera and Click 3 * (upper right on number pad) when the words U-Boot are on screen. (please keeping press * to ensure the input, until you see DHBOOT#)





B、Now you can enter setup interface, and will see DHBOOT # in the screen

3、Debug state

1) Enter DHBOOT # menu by input ***

2) Set the IP Camera to Debug sate

When we want to check the RS232 information, you can set the IP Camera to debug state and check the problems

A、Type appauto 0

dh_keyboard 0

save

then you will enter debug state and can get the RS232 information from the IP Camera

🜌 NCOX v1.02 [COX1,115200bps]	×
<u>F</u> ile Options Help	
	1
U-Boot 1.1.4 for DAHUA Davinci :Version 3.0: modifu bu Sword:20071212 (Jan 13	
2009 - 15:10:14)	
Print *** quickly after power on the IP Camera	
U-Boot code: 81080000 -> 810992D8 BSS: -> 810B2AAC	
RAM Configuration:	
Bank #0: 80000000 64 MB	
Flash Manufacturer=HMV	
TIASH RESEL;AUU DY SWURUFIASH: TO MB	
Aut. serial	
Err: serial	
ARM Clock :- 256MHz	
DDR Clock :- 162MHz	
LoadingDHBOOT# ****	
Unknown command '****' - try 'help'	
DHBUUI# setenv dh_keyboard Ø	
DHBOOT# setenv appauto	
DHBOOT# save	×

B、Restart the IP Camera or type bootd to startup the IP Camera



C、With debug state, the IP Camera will not auto start, and will stop at # You need to type ii to startup the IP Camera

₩ NCOM v1.02 [COM1,115200bps]	_ D X
<u>F</u> ile <u>O</u> ptions Help	
*****ASP VER: 2.6*****	×
dm6441 dsp msg:sync error happend usbcore: registered new driver rt73	
DMA channels: Tx 27, Rx 26, # of Slaves[3]	
++++Start pppd,Version 1.3 2008-03-10+++ open /dev/mtd/1 sucess	
"netinit help" for help	
eth0:	
MAC: <52:54:4c:fa:55:cf>	
IP: <192.168.1.108> netmask: <255.255.255.0>	
Gateway: <192.168.1.1> set success	
starting pid 952, tty '/dev/ttyS0': '/bin/sh'	
<u># ii</u>	

 $D_{\mbox{\tiny S}}$ All the information can be found in the ncom log file



3) Working state

We need to set the IP Camera to this state before it is sent to customer

For most users they do not need to enter debug mode and need the IP Camera auto start to work, so we must exit debug mode before the IP Camera is sent to the users

The operation is the same

- A、Restart the IP Camera, Click 3 "*" to enter setup interface, and will see DHBOOT # in the screen
- C、Type appauto 1

dh_keyboard 1 save

D、Restart the IP Camera or type booted to startup the IP Camera

MCON v1.02 [CON:x] File Options Help U-Boot code: 81080000 -> 810992D8 BSS: -> 810B2AAC **RAM Configuration:** Bank #0: 80000000 64 MB Flash Manufacturer=AMD flash reset;add by SwordFlash: 16 MB In: serial Out: serial Err: serial ARM Clock :- 256MHz DDR Clock :- 162MHz LoadingDHBOOT# **** Unknown command '****' - try 'help' DHBOOT# setenv dh keyboard 1 DHBOOT# setenv appauto 1 DHBOOT# save Saving Environment to Flash... Un-Protected 1 sectors Erasing Flash...flash erase,Device=S29GL128N Erasing sector 1 ... done. flash reset;add by Sword Erase Operation Completed. Erased 1 sectors Writing to Flash...\done Protected 1 sectors DHBOOT# bootd Loading ## Booting image at 80800000 ... Image Name: Linux-2.6.10_mv1401-davinci_evm Image Type: ARM Linux Kernel Image (uncompressed) Data Size: 1522316 Butes = 1.5 MB Load Address: 80008000 Entry Point: 80008000 Verifying Checksum ... OK OK