

The Vortex86MX platform TV-in function user guide

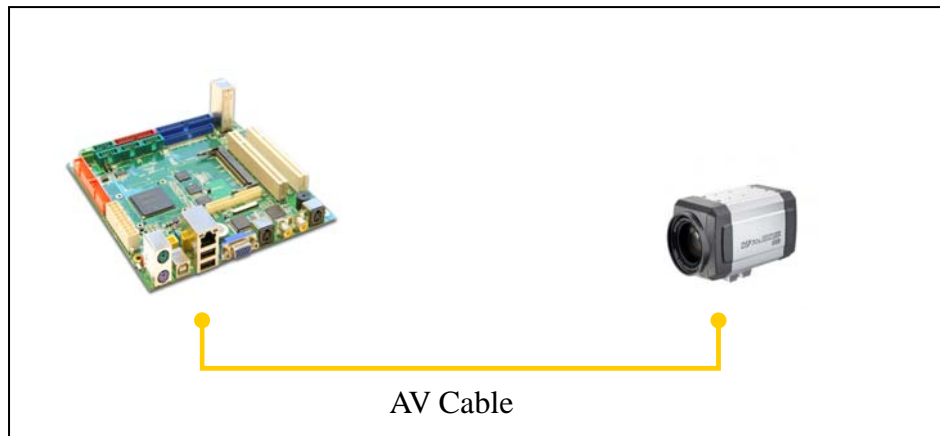
Test Environment: VMX-6490

Linux distribution: Ubuntu9.04

Kernel version (default): 2.6.28-11-generic

For the installation of Ubuntu9.04 please refer to the installation guide from:

ftp://vxdx:gc301@ftp.dmp.com.tw/Linux_DEMO/install_ubuntu904.pdf



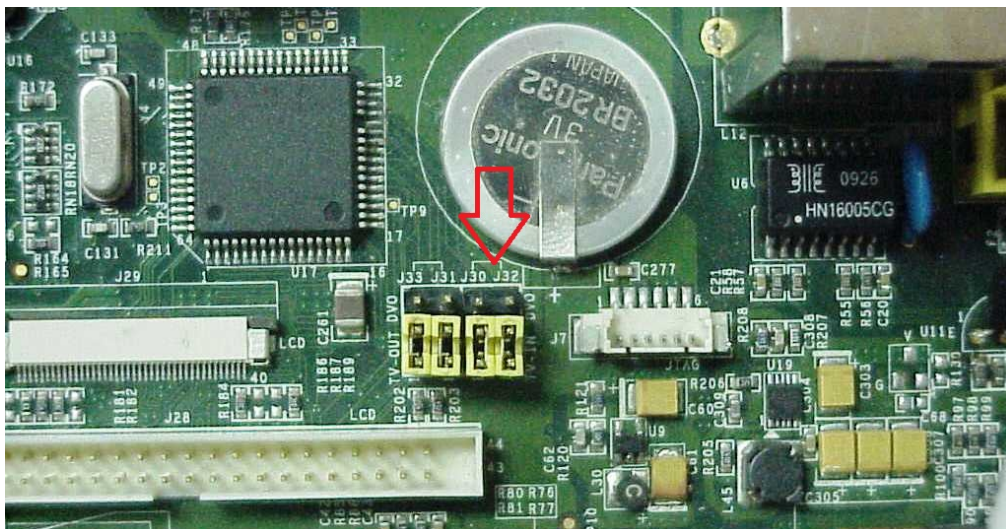
The connection TV-in to the camera through the AV cable (yellow):

1, Download drivers [rdc_drv.so (Xserver 1.6), rdcv4l.ko] from:

VMX: <ftp://vxxm:gc301@ftp.dmp.com.tw/Linux/V4LTestingPackage.zip>

VMX+: ftp://vxxmplus:gc301@ftp.dmp.com.tw/Drivers/Linux/V4LTestingPackage_VMX+.zip

2, Set the jumper J30, J32 to enable TV-in as follow if that you are using is the evaluate board VMX6490/VMX6590.



3, BIOS Setting: To adjust the function PCI PnP/ Allocate IRQ to PCI VGA >> Yes,

Main	Advanced	PCIPnP	Boot	Security
Advanced PCI/PnP Settings				
WARNING: Setting wrong values in below sections may cause system to malfunction.				
Clear NVRAM				[No]
Plug & Play O/S				[No]
PCI Latency Timer				[128]
Allocate IRQ to PCI VGA				[Yes]
Palette Snooping				[Disabled]
IRQ3				[Available]
IRQ4				[Reserved]

To boot the system of Ubuntu9.04 and enter the console mode to install the Xorg driver on system,

```
# sudo su
# cp rdc_drv.so /usr/lib/xorg/modules/drivers/
# /etc/init.d/gdm stop
# X -configure
# cp /root/xorg.conf.new /etc/X11/xorg.conf
# /etc/init.d/gdm start
```

Check if the X window could be turn on and display normally. Then turn on the terminal to add the useful mirror server for some application installation support like xawtv and tvtime.

```
# echo "deb http://old-releases.ubuntu.com/ubuntu/ jaunty main universe
multiverse" >> /etc/apt/source.list
```

Remember to check the update condition after completed the server adding.

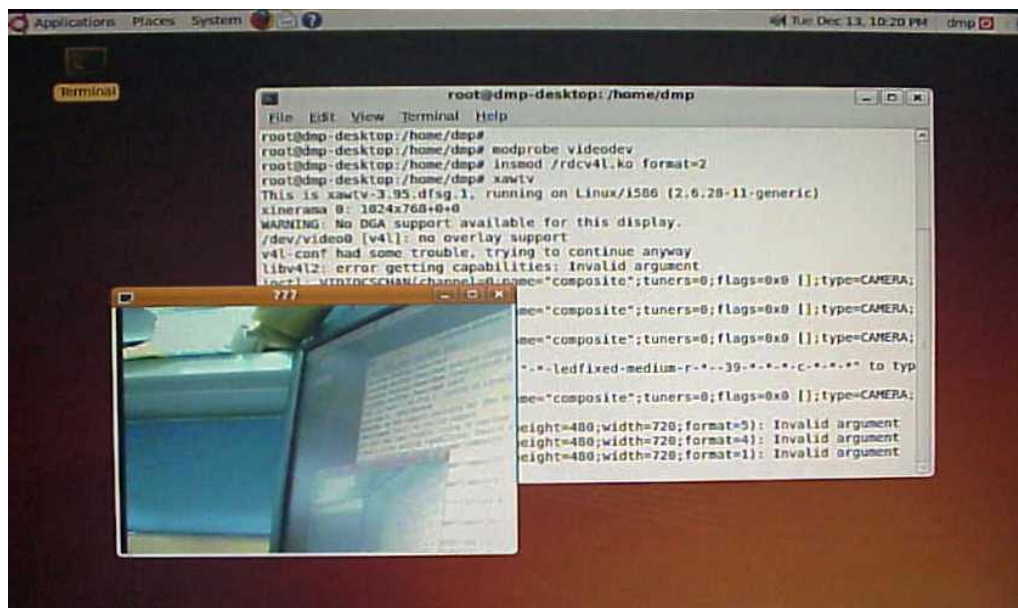
```
# apt-get update
```

To install the applications for video playing,

```
# apt-get install xawtv
# apt-get install tvtime
```

Follow the step to install the module and execute the application.

```
# cp rdcv4l.ko /
# modprobe videodev
# insmod /rdcv4l.ko format=2 // (2=YUY2)
# xawtv or # tvtime
```



Done~

PS: The xawtv and tvtime all could be used on this application. And for the tvtime, there has two modes could used (PAL and NTSC), as we tested, the NTSC with better and quicker performance in video playing.

Any questions be sure to contact with soc@dmp.com.tw

Regards,

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