

This document is designed to help owners of the Sony Vaio N505X install Puppy Linux 2.15CE on their laptop using the CDROM drive.

What you will need.

1 x Sony Vaio PCG-N505X

1 x Sony PCMCIA CDROM Drive

1 x USB Memory Stick (Optional if you have a CD Burner)

Step 1.

Download and burn a copy of Puppy Linux to CD.

Connect your PCMCIA CDROM drive to you N505X and turn on the computer.

When the N505X shows the VAIO logo, **Press F2** this will sent you to BIOS.

Insert your Puppy CD into the CDROM drive. Check the boot sequence and make sure **ATAPI CDROM** is the 1st boot device.

Select **Exit (Save Changes)**.

Step 2.

Once the boot sequence starts you will be presented with the **boot:** prompt, you need to move fairly quickly at this point to prevent auto boot as you will have to re-boot once it fails.

At the **boot:** prompt type: - **puppy ide1=0x180,0x386 nopcmcia acpi=off**

Press **ENTER** to continue.

The boot sequence will continue, show a little patience here! A few minutes will go by and it appears nothing is happening. But it is!


Next you will be presented with a dialog requesting your keyboard layout, select the relevant layout and press **ENTER** to proceed.

Next you will be presented with the Puppy Video Wizard. At this point just press **ENTER** XORG will be selected by default.

The installation will now spend a few seconds probing the video card. Once it has finished the Wizard continues, at this point select **h31.5-48.5v40-70 LCD Panel 1024x768** and press **ENTER**.



Next the Wizard requests you select the correct video mode, select **1024x768x24 Unconfirmed for monitor, OK for video card** and press **ENTER**.

The boot sequence now continues and you will be presented with the rather cool looking Puppy Linux Desktop and a Dillo Welcome screen.

At this point you have not actually installed puppy! Close the Dillo Window by clicking the  in the corner and we are ready to proceed.

Step 3.

At the top left of your screen you will see an icon that looks like a USB stick and is labelled **drives**, click it once.

A small dialog will appear and present you with a list of drives available at this time. Next to the CDROM icon you will see **MOUNT**, click it and a new window containing the contents of the CDROM will appear, close this window with the  in the corner and then close the Media Utility Tool by clicking the  in the corner.

Click Menu

Locate the menu option **Setup** and move the mouse point to this position, another menu will appear, 3rd option from the bottom is **Puppy Universal Installer**. Select this item and wait for the installer to start.

The next dialog requires you to select the location you wish to install Puppy Linux. Select **IDE (ATA) Internal Hard Drive** and click **OK**.

The next dialog requests confirmation of the drive you want to install Puppy Linux on, click **OK**. On the next dialog **click the Puppy** next to **Install Puppy to hda2**.

On the next dialog select **OK** to continue with the installation.

On the next dialog select NORMAL to continue. *(Unless you are setting up multi OS on the system. This guide does not cover multi OS installations.)*

If you have installed puppy before the next dialog will ask if you want to upgrade or wipe. For this tutorial you will **WIPE** but be aware that the contents of your hard disk will be deleted **“Yes that includes your data”**.

The universal installer will then wipe all the files on your hard disk and continue copying your fresh Puppy installation to the selected drive. This will take a few minutes, and is a good time to indulge in a call of nature or a cup of coffee.

Step 4.

Once the files have finished copying to your hard disk you will be presented with a new Puppy Universal Installer window asking if you want to Boot from USB or Install GRUB. Click **Install GRUB** to proceed.

On the next dialog click **OK**.

On the GRUB CONFIG dialog leave **simple** selected and click **OK**.

The next dialog asks what frame buffer console you require, leave Standard selected and click **OK**.

On the next dialog you are asked to select the grub partition, click **OK** to continue.

The next dialog asks where you want GRUB installed, select **MBR Install to Master Boot Record (possibly unsafe)** and click **OK**.

On the next dialog click **OK**.

On the next dialogue select **No**.

Puppy is now installed on your hard disk, at this point it is important that you **DO NOT** re-boot. Puppy will not work properly.

Step 5.

Edit the Boot menu.lst file.

Once again click the Drives icon once and then next to **hda** you will see **Mount, click it**.

A new dialog will open displaying the contents of the hard disk. Clicking each icon once and navigate to:-

boot – grub

Then **right click** the icon labelled **menu.lst**

A menu will appear and you should select File '**menu.lst**' a second menu appears and you should select **Open As Text**.

A new window will appear with the contents of the **menu.lst** file. At this point scroll down until you see the following line:-

Kernel /boot/vmlinuz root=/dev/hda2 ro vga=normal

Place your cursor at the end of this line and **add a space**. Then type the following:-

ide1=0x180,0x386 acpi=off

Now click **File** and **Save** and click the  in the corner to close this window.

Continue to close each of the windows currently left open on the screen.

Then **click Menu – Logout – Shutdown** and click **OK** to proceed.

When you are asked if you want to save your personal settings you can select **DO NOT SAVE** and press ENTER to continue the Shutdown procedure.

When you see a message on the screen saying SENDING TERM SIGNAL - SYSTEM WILL SHUT DOWN you should press the Eject button on the CDRROM. Don't worry if you miss this, you can always turn the N505X back on and press F2 to enter the BIOS. From there you can Eject the CD and reboot.

Eventually the N505X will turn off.

At this point I chose to remove my CDROM drive as I intended to install a WIFI card in the slot being used by the PCMCIA CDROM device.

Step 6.

Turn your N505X back on and wait.....

At the GNU Grub screen make sure **Linux (on /dev/hda2)** is selected and press ENTER.

Puppy Linux will continue to load.

Once again you will be presented with the keyboard layout dialog. Select the keyboard layout you previously used and press **ENTER**.

Once again you will be presented with the Puppy Video Wizard, just press **ENTER** to select the default **XORG** option.

Once again the system will probe the video chipset and present you with the Monitor list; you should select **h31.5-48.5v40-70 LCD Panel 1024x768** and press **ENTER**.

Once again the installer will ask you to select the correct video mode; you should select **1024x768x24 Unconfirmed for monitor, OK for video card** and press **ENTER**.

At this point puppy continues to load and you will be presented with the Puppy Linux Desktop.

You have finished the preliminary installation of Puppy Linux on your Sony Vaio PCG-N505X.

Installation of Audio Chipset

Installation of the Audio Chipset is a very simple task.

From the Puppy Desktop click Setup, you will be presented with a WizardWizard dialog. On this screen click the wand next to Setup Alsa Sound...

A Terminal window will open showing the ALSA CONFIGURATOR. Press ENTER.

You will be presented with the sound card selection screen. On this screen **ymfpci** will be highlighted, press **ENTER**.

The next screen requires you click **OK**.

That's it done... You have sound ☺