



Custom Image for Zgemma S, 2S, H1, H2, H.S,
H.2S, H.2H, H5, H5.2S, H5.2TC, i55 and Vu+ Solo2

Quick Start and Full User Guide – Version 1.3.2

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1. Introduction

This guide assumes you have some basic understanding of your Zgemma box, how to copy the image onto a USB and how to use FTP (such as Filezilla).

Please take the time to read this Guide. The steps here are important. The vast majority of requests for help are from people that haven't read or followed this guide through.

This guide now features 4 different options for settings up your channels – Please read the Preparation section below before following the option relating to your particular setup (Sky; Sky & Virgin; Virgin; or Virgin & Sky). Once complete your channel setup, you should continue reading the guide for details on how to add your line and some final suggested tasks.

Everyone should read and follow sections 1 through 4. Then depending on how you want your box setup and which providers (Sky/Virgin) you connect to, follow the appropriate section, before continuing to the final sections.

STOP – *There are 4 ways in which you can run your Zgemma.*

1. *Sky ONLY*
2. *Sky and Virgin (with Sky as the main set of channels)*
3. *Virgin Only*
4. *Virgin and Sky (with Virgin as the main set of channels)*

2. Red Button

With the launch of iPab v1.3, all of the most used functions, information, setup and just about everything else can now be accessed by pressing the Red Button. This will launch the iPab menu. Within this menu you can perform Quick Start (for both Virgin and Sky), Correctly switch skins, including adding picons if you wish, Install IPTV subscriptions, run system and iPab updates, get information on Network settings, Drive mounts, swap files, import and/or backup your Line and just about every fix we've ever been asked for. This guide covers a lot, but have a look around in the iPab. Press the Red Button!

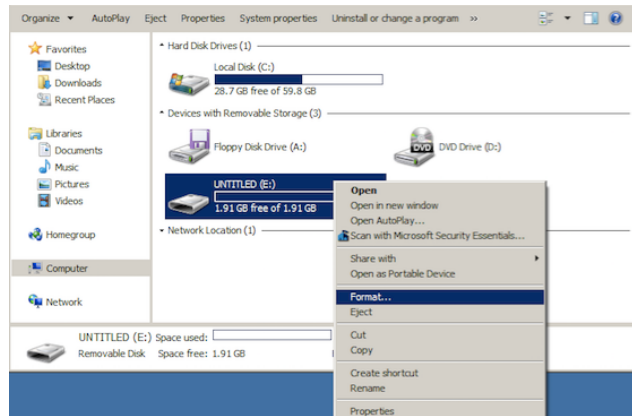
3. Preparation

These instructions are based on Windows 7 – Your experience may differ slightly.

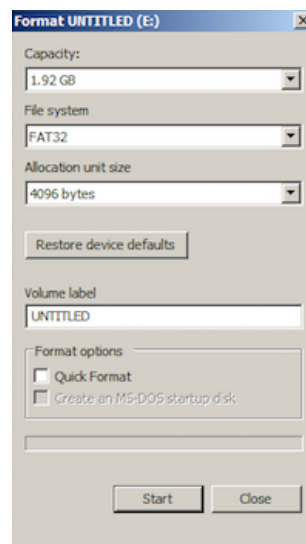
Preparing your USB drive

The key thing to know about flashing these boxes is that they are VERY sensitive to USB drives. A USB drive that works flawless on a PC, may not work when flashing your box. For the best chance of this work, ensure you use a quality branded USB drive and where possible, keep it less than 32gb so that you can format it as FAT32.

- Insert your USB into a spare USB port on your PC
- Click Start and select Computer
- Find your USB drive in the list of drives. Make sure you select the right one
- Right click on the drive and select Format



- Ensure the format is FAT32 (if you do use a drive larger than 32gb you will have to select exFAT)
- It's always best to remove the check from Quick Format and let the drive format fully
- Click Start



- Accept the warning message that confirms your drive will be erased
- If you have unchecked Quick Format, expect the format to take a while, how long depends on the size of your drive, but a 4gb drive will take about 5-10 mins

Download the iPab.tv Image

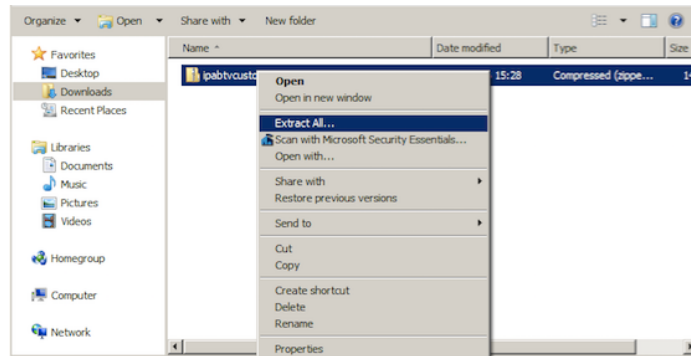
While are waiting for the format to finish you can download the image.

- Visit <http://iPab.tv>
- Click 'Download Image' from the top menu bar
- Click 'Download'

MAKE SURE you know where you save the download to – If you are prompted to save the file, you will know where you have put it – If your browser doesn't prompt you for a location, it most likely put it into the Downloads folder on your PC.

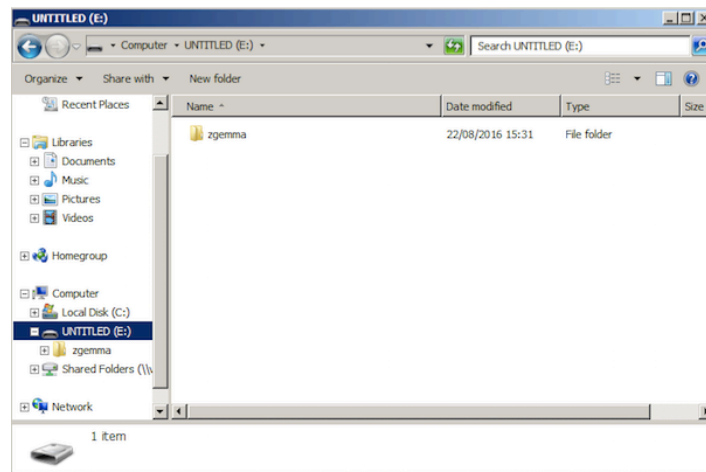
NOTE - The file that you download is a ZIP file, which contains the image as well as the Quick Start and User Guide. But you must first UNZIP the ZIP file.

- Make sure you've give the file enough time to download – Don't try an unzip the files whilst it is still downloading
- Find the downloaded image ZIP file (If in doubt, check the downloads folder)
- Right click on the ZIP file and select Extract All



- The file will UNZIP in the same folder
- Drag the zgemma (Or vuplus if you have a Vu+ box) folder and drop it onto your USB drive – You may need to expand 'Computer' to see the drive - It will take a minute or two to copy the folder across

NOTE – Take a moment to check that the zgemma folder is on the USB drive and not in a sub-folder of the USB drive



- When the folder has completely copied, right click on your USB drive and select Eject
- Remove your USB drive

Connect your Zgemma box

- Connect your Zgemma box to your TV, connect the Satellite feed cable(s), Ethernet cable, HDMI cable and power cable – Ensure that at this point you DO NOT have any USB drives connected to the box at all.

4. Flash your Zgemma box

STOP – Before you proceed, it is assumed you know how to backup your line, OR that you are installing this image onto a new box. Details are included at the end of this guide on how to backup your line.

- Turn your Zgemma box OFF using the white switch on the rear of the box
- Insert the USB thumb drive containing the iPad.tv image into the rear USB port (On the new Zgemma models you can use the front USB port, but for ease we will use the rear port here)
- Turn your Zgemma box ON using the white switch on the rear of the box
- The display on the front of your Zgemma box should say BOOT, then FLSH – If you do not see FLSH please refer to the see Troubleshooting section for assistance – Flashing the image will take 5-10 minutes depending on your box. Please be patient.

- Once flashing has completed the box will begin to load. It is VERY important that AS SOON AS your box changes from FLSH to BOOT that you remove the USB Thumb Drive and switch off your Zgemma box using the white switch at the rear of the box.

STOP – *Do not proceed to the next steps until you have removed the USB Thumb Drive and switched off your Zgemma box using the white switch at the rear.*

5. First Time Boot

- Connect any USB drive you will be using for recordings, timeshift and EPG storage into the rear USB port.
- Switch your Zgemma box ON using the white power switch at the rear
- Wait for your Zgemma box to load (This will take between 1 and 2 minutes depending on your model)

When the Zgemma box has booted fully the first time, you will see the Video Wizard, after which it will tune to Channel 4 HD. If your box does not show you a working TV station, please check your cables and refer to the Full Setup Guide for troubleshooting

Update

To ensure you start with the most up to date software and plugins, it is highly recommended that you complete all of the following update steps

- Red Button > 1 > Yellow Button – This will run the emergency fixes to ensure any critical issues are patched – The box will restart once complete
- Red Button > 1 > Blue Button – This will run the system update to ensure the most up to date underlying operating system is running – The box will restart once complete
- Red Button > 4 > 1 – This will run the IPTV Player update to ensure you have the most up to date IPTV player – The box will restart once complete

Set Correct TV Resolution

To ensure the widest possibly compatibility with ALL devices, the VIDEO WIZARD will run on first boot

NOTE – *With any of these settings in the VIDEO WIZARD, if you set a setting that is incompatible with your TV, the screen will go blank, but will revert to the last good settings after about 30 seconds*

- Select HDMI or RCA (Default HDMI)
- Select the maximum screen resolution your TV will support. 1080p is the Maximum supported by your Zgemma box, try this then work down through 1080i, 720p and so on.
- Select the refresh rate your TV will support. UK standard is 50hz and it's best to chose this
- Press OK to exit the wizard

You should now see Channel 4 HD

For the next steps, it is advised you work through the iPab Quick Start Menu – as such key presses described below will walk you through these options. The iPab Menu is accessed via the Red Button.

Ensure the entire screen is visible

- Red Button > 7 (Quick Start Setup) > 1 (OSD Position)

- Highlight the Move Left/Right line and press the LEFT or RIGHT buttons until the left side of the RED box is visible, then press the LEFT button until the left side of the RED box is NOT visible
- Highlight the Width line and press the LEFT or RIGHT buttons until the right side of the RED box is visible, then press the RIGHT button until the right side of the RED box is NOT visible
- Highlight the Move Up/Down line and press the LEFT or RIGHT buttons until the top side of the RED box is visible, then press the LEFT button until the left side of the RED box is NOT visible
- Highlight the Height line and press the LEFT or RIGHT buttons until the right side of the RED box is visible, then press the RIGHT button until the right side of the RED box is NOT visible

The end result you are looking for is for the Blue, Yellow and Green boxes all to be visible, but the Red box should not be visible

- Press the Green button to save this setting

You will remain in the Quick Start Menu ready for the next section

Initialise your USB drive

STOP – *This will completely erase your USB drive. If you are upgrading your box to use the iPab.tv custom image and have already initialised a disk that has some content on, you can skip this part.*

- 2 (Hard Disk Initialisation)
- Select your drive and press OK Button
- Red Button (Initialise) -> OK Button
- Your USB Drive will now be formatted (Initialised). This may take anything from a few seconds to a few minutes depending on the size of the drive you have connected

NOTE – *If you see an error message about being unable to unmount your drive, follow these steps and then go back to the 'Initialise your USB drive' section.*

- Exit to TV > Red Button > 2 (Fixes Menu) > 7 (Disable Timeshift Autostart)
- You will see a message confirming Timeshift has been disabled
- Exit button > Exit Button

You will remain in the Quick Start Menu ready for the next section (assuming you didn't have to disable Timeshift)

Setup a swap file on your USB Drive

- 3 (Swap File Manager)
- Green Button (Create) > OK Button to select the drive to create the swap file on
- Select the size of swap disk – 256mb has proven the best option to chose
- Press OK Button – You will see a message being displayed to "Wait please while creating swapfile..."- This should take no more than a few minutes.
- Once the text at the top of the screen has changed to 'Enable Swap at startup' you should then press Red Button (Activate) > Yellow Button (Autostart)
- Exit Button > Exit Button > Exit Button - This will return you to TV

STOP – You MUST now reboot your box for the drive to be registered correctly and for the swap file to work. The correct way to reboot is: Menu > Standby / Restart > Restart (Do not select Restart GUI as we want a full reboot).

Once the box has rebooted you can continue.

Check the location for Recording and Timeshift

- Red Button > 7 (Quick Start Setup) > 4 (Recordings settings)
- Check the 'Default movie location' which should be /media/hdd/movie/ - This should be the default and as long as you've followed the steps above this shouldn't require changing
- Exit Button
- 5 (Timeshift Settings)
- Check the 'Timeshift location' which should be /media/hdd/timeshift/ – This should be the default and as long as you've followed the steps above this shouldn't require changing.

6. Sky Only Setup

Use this setup if you are ONLY connected to Satellite (Sky) Feed.

Set your local TV region to ensure correct Sky TV channels

STOP – You might be used to using Auto Bouquets Maker, but the iPab.tv Custom Image works very differently. Bouquets and channels are managed by custom plugins – The iPab.TV Custom Image is configured in a very unique way. Please follow these steps carefully. You should only need to make a change to your region once – The iPab.TV Custom Image will take care of automatically updating your channel line up on a nightly basis.

Check and Update your TV region

If you exited the Quick Start Menu, go back into this (Red Button > 7 (Quick Start Setup))

- 6 (Sky Bouquet Maker)
- Press the Menu Button to change the region and any settings

NOTE – By default iPab.TV is configured with Childsafe bouquets and channels (No adult, gambling etc). If you wish to enable these channels, you should disable Childsafe in the menu here.

- Change the 'BBC/ITV Region' to match your local area (Press left or right to select a new region)
- If you wish to have BBC One and BBC Two in HD, select Yes on this setting.

NOTE – During regional programming such as news, BBC One HD does not broadcast. You should consider whether you want BBC One HD as channel 101. It is recommend this setting is set to no).

- You should not change any other settings unless you know what these do
- Green Button (OK) – This will save your settings
- Green Button (Start)
- The scan will start automatically - The scan will take a few minutes to perform a new scan and when complete you will see a message 'All Done' after which you will be returned to the plugin menu

You will remain in the Quick Start Menu ready for the next section

Check and Update your EPG (Electronic Program Guide)

- 8 (CrossEPG) > Configure
- Check that the 'Storage Device' is set to your USB (recommended)
- Press Red/Exit
- Select 'Sky EPG Providers' and check that Sky UK OpenTV is checked
- Press the Exit Button
- Select 'Download now'
- Your Zgemma box will switch to a black screen and the radio will play and messages will give you an update of the progress at the bottom – This process will take a minute or two and will then return you to the menu
- Exit Button > Exit Button > Exit Button – This will return you to TV

You can now skip onto the 'Adding your line' section

7. Sky with Virgin HD Bouquet Setup

Use this setup if you are connected to Satellite and Cable feeds and you wish Sky to be your primary source of channels. You MUST follow these steps in order to ensure your channel line up is correct.

Set your local TV region to ensure correct Sky TV channels

STOP – You might be used to using Auto Bouquets Maker, but the iPab.tv Custom Image works very differently. Bouquets and channels are managed by custom plugins – The iPab.TV Custom Image is configured in a very unique way. Please follow these steps carefully. You should only need to make a change to your region once – The iPab.TV Custom Image will take care of automatically updating your channel line up on a nightly basis.

Check and Update your TV region

If you exited the Quick Start Menu, go back into this (Red Button > 7 (Quick Start Setup))

- 6 (Sky Bouquet Maker)
- Press the Menu Button to change the region and any settings

NOTE – By default iPab.TV is configured with Childsafe bouquets and channels (No adult, gambling etc). If you wish to enable these channels, you should disable Childsafe in the menu here.

- Change the 'BBC/ITV Region' to match your local area (Press left or right to select a new region)
- If you wish to have BBC One and BBC Two in HD, select Yes on this setting.

NOTE – During regional programming such as news, BBC One HD does not broadcast. You should consider whether you want BBC One HD as channel 101. It is recommend this setting is set to no).

- You should not change any other settings unless you know what these do
- Green Button (OK) – This will save your settings
- Green Button (Start)
- The scan will start automatically - The scan will take a few minutes to perform a new scan and when complete you will see a message 'All Done' after which you will be returned to the plugin menu

You will remain in the Quick Start Menu ready for the next section

Check and Update your Sky EPG (Electronic Program Guide)

- 8 (CrossEPG) > Configure
- Check that the 'Storage Device' is set to your USB (recommended)
- Press Red/Exit
- Select 'Sky EPG Providers' and check that Sky UK OpenTV is checked
- Press the Exit Button
- Select 'Download now'
- Your Zgemma box will switch to a black screen and the radio will play and messages will give you an update of the progress at the bottom – This process will take a minute or two and will then return you to the menu
- Exit Button > Exit Button > Exit Button – This will return you to TV

Create the Virgin HD Channels and HD Bouquet

- Red Button > 8 (Virgin Quick Start Setup) > 6 (Tuner Config)
- Select the Cable Tuner (this is usually Tuner B)
- If you have a Tuner Type displayed, Select Tuner C

- Enter the Network ID for your Virgin Area (*Region (If you don't know what this is, use Virgin Net ID tool at <http://ipab.tv/virgin-netid-search/>)*)
- Ensure 'Used service scan type' is set to 'Provider'
- Change the 'Provider to scan' to 'Virgin Media UK(6952)'
- Green Button to Save
- If prompted, select Yes to 'Zap back to service before tuner setup'
- Exit Button (this will return you to the Virgin Quick Start Menu'
- 8 (Advanced Bouquets Management)
- Select Providers
- *Virgin (UK) – Set to YES*
- *Virgin (UK): Region – Set this to your Virgin Region (If you don't know what this is, use Virgin Net ID tool at <http://ipab.tv/virgin-netid-search/>)*
- *Virgin (UK): FTA ONLY – NO*
- *Virgin (UK): generate main bouquet – NO*
- *Virgin (UK): generate sections bouquets – NO*
- *Virgin (UK): generate HD bouquet – YES*
- *Virgin (UK): generate FTA bouquet – NO*
- *Virgin (UK): generate FTA HD bouquet – NO*

STOP – Just double check here that the *ONLY* Virgin options you have set are you region and generate HD Bouquet

- Green Button to Save
- Scroll down and select 'Populate Database & Create Virgin Bouquets'
- The scan will start automatically. The scan will take a few minutes to perform create the channels and bouquets. After which you will be returned to the menu.

You will remain in the Virgin Quick Start Menu ready for the next section

Check and Update your Virgin EPG (Electronic Program Guide)

- 9 (EPG Refresh)
- If you see the Help pages on first entry, just click red button to close these
- Blue Button (edit services) > Blue Button (New) > Red Button (All) - This will list all channels in alpha order
- Scroll down and select PVR_EPG channel (Press OK when you've highlighted it)
- Green Button to save
- Change 'Refresh EPG automatically' to YES
- Change 'EPG refresh auto-start earliest' to 04:30
- Change 'EPG refresh auto-start latest' to 05:00
- Change 'Show Advanced Options' to YES
- Change 'Wake up from standby for EPG Refresh' to YES
- Green Button to save

NOTE - If you wish to run the refresh now, go back into EPGRrefresh and press the Yellow Button and select Refresh Now – The screen will go blank for two minutes – This is to be expected.

You can now skip onto the 'Adding your line' section

8. Virgin Only Setup

Use this setup if you are ONLY connected to Cable (Virgin) Feed.

For the next steps, it is advised you work through the iPab Virgin Quick Start Menu – as such key presses described below will walk you through these options. The iPab Menu is accessed via the Red Button.

Set your local TV region to ensure correct Virgin TV channels

STOP – You might be used to using Auto Bouquets Maker, but the iPab.tv Custom Image works very differently. Bouquets and channels are managed by custom plugins – The iPab.TV Custom Image is configured in a very unique way. Please follow these steps carefully. You should only need to make a change to your region once – The iPab.TV Custom Image will take care of automatically updating your channel line up on a nightly basis.

Fast Prep

Fast prep will remove the already configured Sky channels and set the Virgin Skin ready for use.

- Red Button > 8 (Virgin Quick Start Setup) > 0 (Virgin Only Skin & Bouquet Fast Prep)

NOTE – This process may take a while to complete

You box will now perform some clean up steps and setup the Virgin Skin (with Picons) for your use. Your box will restart and momentarily show the Virgin bar at the bottom of the screen but will appear to be stuck on the boot logo – This is because for the moment, you don't have any channels.

Create the Virgin Channels and Bouquets

- Red Button > 8 (Virgin Quick Start Setup) > 6 (Tuner Config)
- Select the Cable Tuner (this is usually Tuner B)
- If you have a Tuner Type displayed, Select Tuner C
- Enter the Network ID for your Virgin Area (Region (If you don't know what this is, use Virgin Net ID tool at <http://ipab.tv/virgin-netid-search/>)
- Ensure 'Used service scan type' is set to 'Provider'
- Change the 'Provider to scan' to 'Virgin Media UK(6952)'
- Green Button to Save
- If prompted, select Yes to 'Zap back to service before tuner setup'
- Exit Button (this will return you to the Virgin Quick Start Menu'
- 8 (Advanced Bouquets Management)
- Select Configure
- Change 'Place bouquets at' to TOP
- Green to Save
- Select Providers
- Set 'Sky ROI' to NO
- Set 'Sky UK' to NO
- Virgin (UK) – Set to YES
- Virgin (UK): Region – Set this to your Virgin Region (If you don't know what this is, use Virgin Net ID tool at <http://ipab.tv/virgin-netid-search/>)
- Virgin (UK): FTA ONLY – NO
- Virgin (UK): generate main bouquet – YES
- Virgin (UK): generate sections bouquets – YES
- Virgin (UK): generate HD bouquet – YES

- Virgin (UK): generate FTA bouquet – NO
- Virgin (UK): generate FTA HD bouquet – NO
- Virgin (UK): Swap Channels - YES

STOP – Just double check here that the Virgin options you have set are you region, generate HD Bouquet, generate sections bouquets and generate HD bouquet

- Green Button to Save
- Scroll down and select 'Populate Database & Create Virgin Bouquets'
- The scan will start automatically. The scan will take a few minutes to perform
- The scan will start automatically. The scan will take a few minutes to perform create the channels and bouquets. After which you will be returned to the Virgin Quick Start Menu.

Disable the Sky Bouquet Maker scheduled update

- 7 (Sky Bouquet Maker)
- Press the Menu Button
- Change the 'Enable SBM Daily Update' to NO
- Green Button (OK) – This will save your settings
- Exit Button – This will return you the Virgin Quick Start Menu.

Check and Update your Virgin EPG (Electronic Program Guide)

- 9 (EPG Refresh)
- If you see the Help pages on first entry, just click red button to close these
- Blue Button (edit services) > Blue Button (New) > Red Button (All) - This will list all channels in alpha order
- Scroll down and select PVR_EPG channel (Press OK when you've highlighted it)
- Green Button to save
- Change 'Refresh EPG automatically' to YES
- Change 'EPG refresh auto-start earliest' to 04:30
- Change 'EPG refresh auto-start latest' to 05:00
- Change 'Show Advanced Options' to YES
- Change 'Wake up from standby for EPG Refresh' to YES
- Green Button to save

NOTE - If you wish to run the refresh now, go back into EPGRefresh and press the Yellow Button and select Refresh Now – The screen will go blank for two minutes – This is to be expected.

Disable your Sky EPG (Electronic Program Guide)

- Exit Button > 7 (Quick Start Setup) > 8 (CrossEPG)
- Select Configure
- Change 'Scheduled download' to 'disabled'
- Press the Exit Button once
- Select Sky EPG Providers
- Green Button to DISABLE 'Sky UK OpenTV (Astra2 on 28.2)
- Press the Exit Button once
- Exit Button – This will return you the Quick Start Menu.

You can now skip onto the 'Adding your line' section

9. Virgin with Sky Bouquets Setup

Use this setup if you are connected to Cable (Virgin) and Satellite (Sky) feeds and you wish Virgin to be your primary source of channels. You MUST follow these steps in order to ensure your channel line up is correct.

Set your local TV region to ensure correct Virgin and Sky TV channels

STOP – You might be used to using Auto Bouquets Maker, but the iPab.tv Custom Image works very differently. Bouquets and channels are managed by custom plugins – The iPab.TV Custom Image is configured in a very unique way. Please follow these steps carefully. You should only need to make a change to your region once – The iPab.TV Custom Image will take care of automatically updating your channel line up on a nightly basis.

Fast Prep

Fast prep will remove the already configured Sky channels and set the Virgin Skin ready for use.

- Red Button > 8 (Virgin Quick Start Setup) > 0 (Virgin Only Skin & Bouquet)

NOTE – This process may take a while to complete

You box will now perform some clean up steps and setup the Virgin Skin (with Picons) for your use. Your box will restart and momentarily show the Virgin bar at the bottom of the screen but will appear to be stuck on the boot logo – This is because for the moment, you don't have any channels.

Create the Virgin Channels and Bouquets

- Red Button > 8 (Virgin Quick Start Setup) > 6 (Tuner Config)
- Select the Cable Tuner (this is usually Tuner B)
- If you have a Tuner Type displayed, Select Tuner C
- Enter the Network ID for your Virgin Area (Region (If you don't know what this is, use Virgin Net ID tool at <http://ipab.tv/virgin-netid-search/>)
- Ensure 'Used service scan type' is set to 'Provider'
- Change the 'Provider to scan' to 'Virgin Media UK(6952)'
- Green Button to Save
- If prompted, select Yes to 'Zap back to service before tuner setup'
- Exit Button (this will return you to the Virgin Quick Start Menu'
- 8 (Advanced Bouquets Management)
- Select Configure
- Change 'Place bouquets at' to TOP
- Green to Save
- Select Providers
- Set 'Sky ROI' to NO
- Set 'Sky UK' to NO
- Virgin (UK) – Set to YES
- Virgin (UK): Region – Set this to your Virgin Region (If you don't know what this is, use Virgin Net ID tool at <http://ipab.tv/virgin-netid-search/>)
- Virgin (UK): FTA ONLY – NO
- Virgin (UK): generate main bouquet – YES
- Virgin (UK): generate sections bouquets – YES
- Virgin (UK): generate HD bouquet – YES
- Virgin (UK): generate FTA bouquet – NO
- Virgin (UK): generate FTA HD bouquet – NO

- *Virgin (UK): Swap Channels - YES*

STOP – Just double check here that the Virgin options you have set are you region, generate HD Bouquet, generate sections bouquets and generate HD bouquet

- Green Button to Save
- Scroll down and select 'Populate Database & Create Virgin Bouquets'
- The scan will start automatically. The scan will take a few minutes to perform
- The scan will start automatically. The scan will take a few minutes to perform create the channels and bouquets. After which you will be returned to the Virgin Quick Start Menu.

Check and Update your Virgin EPG (Electronic Program Guide)

- 9 (EPG Refresh)
- If you see the Help pages on first entry, just click red button to close these
- Blue Button (edit services) > Blue Button (New) > Red Button (All) - This will list all channels in alpha order
- Scroll down and select PVR_EPG channel (Press OK when you've highlighted it)
- Green Button to save
- Change 'Refresh EPG automatically' to YES
- Change 'EPG refresh auto-start earliest' to 04:30
- Change 'EPG refresh auto-start latest' to 05:00
- Change 'Show Advanced Options' to YES
- Change 'Wake up from standby for EPG Refresh' to YES
- Green Button to save

NOTE - If you wish to run the refresh now, go back into EPGRefresh and press the Yellow Button and select Refresh Now – The screen will go blank for two minutes – This is to be expected

Check and Update your Sky TV region

If you exited the Virgin Quick Start Menu, go back into this (Red Button > 8 (Virgin Quick Start Setup))

- 7 (Sky Bouquet Maker)
- Press the Menu Button to change the region and any settings

NOTE – By default iPab.TV is configured with Childsafe bouquets and channels (No adult, gambling etc). If you wish to enable these channels, you should disable Childsafe in the menu here.

- Change the 'BBC/ITV Region' to match your local area (Press left or right to select a new region)
- If you wish to have BBC One and BBC Two in HD, select Yes on this setting.

NOTE – During regional programming such as news, BBC One HD does not broadcast. You should consider whether you want BBC One HD as channel 101. It is recommended this setting is set to no).

- You should not change any other settings unless you know what these do
- Green Button (OK) – This will save your settings
- Green Button (Start)
- The scan will start automatically - The scan will take a few minutes to perform a new scan and when complete you will see a message 'All Done' after which you will be returned to the Virgin Quick Start menu

Check and Update your Sky EPG (Electronic Program Guide)

- Exit Button (Main Menu) > 7 (Quick Start Menu) > 8 (CrossEPG)
- Select Configure

- Check that the 'Storage Device' is set to your USB (recommended)
- Press Red/Exit
- Select 'Sky EPG Providers' and check that Sky UK OpenTV is checked
- Press the Exit Button
- Select 'Download now'
- Your Zgemma box will switch to a black screen and the radio will play and messages will give you an update of the progress at the bottom – This process will take a minute or two and will then return you to the menu
- Exit Button > Exit Button > Exit Button – This will return you to TV

You can now skip onto the 'Adding your line' section

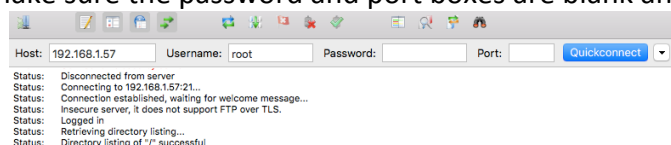
10. Adding your Line

You can choose to use the automatic Cam Line importer following the details the Import/Export Cam Line section, but if you wish to manually install your line, follow the steps below.

NOTE – *There are now THREE Softcams installed on the iPab.tv custom image. Which you use is a really personal choice – All cams support all type of Line (C Line and N Line) - In my experience, I prefer to use CCcam with an N Line – The main reason for this is that CCcam provides you a LOT of information about your connection which can be invaluable WHEN (and not if) your channels go blank unexpectedly. I've detailed all options here*

Connecting Filezilla

- To find the IP Address of your Zgemma Box - Menu Button > Information > Network – Make a note of you IP (You don't need the rest of the information, only your IP)
- Open Filezilla on your PC – In the Host box enter the IP you noted above. Enter root as the username and make sure the password and port boxes are blank and click 'Quick Connect'



- Filezilla will connect to your Zgemma Box (the left hand lower window are files and folders on your PC where as the right hand lower window are files and folders on your Zgemma Box).

CCcam (C Line OR N Line)

NOTE - *The CCcam service is already running and there is a dummy CCcam.cfg file on the Zgemma box. It is located in the /usr/keys/ folder*

- On the right hand window, navigate to /usr/keys/ folder
- Locate the CCcam.cfg file in the right window
- Right Click on the file and select View/Edit - The file will open in a text editor on your PC – Copy and Paste YOUR line making sure you delete the dummy details already in the file (as these don't work, they are just there to show you the format the files expects your Line to look like)
- Save the File – Click back onto the Filezilla Screen to make it active – Filezilla should detect the file has changed and ask you if you want to upload the file back onto the server – It is imperative you do this, as although you have saved the file, it will not have been updated on your Zgemma box until you allow Filezilla upload the file.

At this point, if your Line is working and you have followed the steps correctly, you line will become active immediately. Check a scrambled channel (Such as 106 for Sky 1) to see if this is the case. If this is not working, see the Full Setup Guide for troubleshooting.

MGcam (C Line OR N Line)

NOTE - *TheMGcam service is NOT already running and you will have to start this after uploading your line. There are dummy newcamd.list and cccamd.list files on the Zgemma box. It is located in the /usr/keys/ folder*

- On the right hand window, navigate to /usr/keys/ folder
- If you have a C line locate the cccamd.list file in the right window
- If you have an N line locate the newcamd.list file in the right window

- Right Click on the file and select View/Edit - The file will open in a text editor on your PC – Copy and Paste YOUR line making sure you delete the dummy details already in the file (as these don't work, they are just there to show you the format the files expects your Line to look like)
- Save the File – Click back onto the Filezilla Screen to make it active – Filezilla should detect the file has changed and ask you if you want to upload the file back onto the server – It is imperative you do this, as although you have saved the file, it will not have been updated on your Zgemma box until you allow Filezilla upload the file.
- If you are using a C Line, it is advisable (although not mandatory) to remove the newcamd.list
- If you are using an N Line, it is advisable (although not mandatory) to remove the cccamd.list

Because the MGcam is not actually running, at this point your channels will still be scrambled. So let's go and start the MGcam

- Menu Button > Info Panel > SoftcamPanel
- Red Button to stop CCcam from running – Wait a few seconds
- With 'Select Cam1' highlighted, Right Button to select mgcamd_1.38r1
- Green Button to Start – You will see a message that the Softcam is starting
- Exit Button > Exit Button > Exit Button – This will return you to TV

At this point, if your Line is working and you have followed the steps correctly, your line will become active. Check a scrambled channel (Such as 106 for Sky 1) to see if this is the case. If this is not working, I would seriously suggest that you try running CCcam, as troubleshooting MGcam is difficult – Refer to the Full Setup Guide for troubleshooting.

Details of how to configure oscam is not included in this guide.

11. Regular Tasks

Before you are go off to enjoy your box to it's full potential, there are a few remaining tasks you should do as you complete the install. But it's also a good idea to revisit these tasks maybe once every month or two. For FULL details on how to run these tasks, please review the relevant sections below for

- **System Update**
- **iPab Update**
- **iPab Emergency Update**
- **Update IPTV Player**

12. Backup your box

I'd highly recommend that you back up your box. It will make it just that bit easier to get yourself up and running again if you have a good working copy of your system. The best way to do this is by using a USB stick plugged into the front USB port. BEFORE you can put backup images on your USB stick, you will need to ensure you have formatted it as FAT32 and that you have created an empty text file called backupstick.txt on that USB stick – This identifies the stick as usable for backups. If you miss that step, your Zgemma box will inform you there are no usable USB Sticks. To perform a full image backup:

- Blue Button > Software Manager > Complete Backup
- Ensure the USB stick you prepped above is in the front USB slot
- Green Button to backup to the USB Stick – Depending on your box, this may take up to 15 minutes
- After the backup has been taken, keep your USB stick somewhere safe in case you need it.

Extra Features and Functions

13. Import/Export Cam Line

Cam Line Import

If you wish iPab.tv to automatically import and setup your cam, firstly ensure you have copied your line (either CCcam.cfg, newcamd.list or cccamd.list) to a FAT/FAT32 formatted USB drive and place the USB drive into the front USB port on your box.

- Red Button > 5 (Cam Line Importer/Exporter Menu)
- Green Button

Note – *If no cam line files can be found you will see a message that no lines were found. Check your cam line is on your USB drive and try again.*

Your box will now search for your cam line on your USB drive and, if found, it will import it, configure the correct Cam and activate it. Once complete you will receive a message confirming. You should now restart your box to ensure smooth running of the Cam

Cam Line Export

If you wish iPab.tv backup your Cam Line to an external USB, firstly ensure you have a FAT/FAT32 formatted USB drive. You MUST have a file on this drive called 'backupstick' – This is to identify the USB drive as the correct place to export/backup your cam line to. Place the USB drive into the front USB port on your box.

- Red Button > 5 (Cam Line Importer/Exporter Menu)
- Green Button

Note – *If you have not inserted a USB drive with a file called 'backupstick' on it, you wont be able to export/backup your line. Check your USB drive and try again.*

Your box will now export your cam line to your USB drive. Once complete you will receive a message confirming.

14. IPTV Player

How to Update

iPab.tv comes complete with a plugin called IPTV Player. This plugin contains a number of players within the plugin that allow you to play Movies, TV shows and streaming channels directly from the Internet. When the iPab.tv image is created, we ensure the list of players is up to date, but as these can change over time, we've now included a way to update these to ensure you get the cleanest and most usable version of this amazing plugin.

It is advised that around once a month you run the IPTV Update described in the following steps.

- Red Button > 4 (iPab IPTV Menu) > 1 (Update IPTV Player and Restart)

The latest iPab.tv verified IPTV Player will now download; update and your box will restart once it is complete. You can then go into IPTV player (Menu > IPTV Player) and make use of the players.

Details of Players

As time goes on, these players maybe added or removed. The list is valid as of the date of this guide. The players are listed in the order of popularity or usefulness (ie, those at the top of the list you will likely find to be the better players)

Player Name	Cinema Releases	Latest Movies	TV Shows	Notes
Filmotopia (Popcorn and Film Can Icon)		X	X	
MovieNight		X	X	
123 Movies	X	X	X	
Filmovizija		X	X	
Yify		X		
Movie 4K	X	X		
Watch Series			X	
Arconai		X	X	Live Streaming Channels
Watch Wrestling Network				WWE Repeats
Kiss Cartoon		X	X	Cartoons/Animations
Laola1				Sports
OurMatch				Football Highlights
Apple Trailers				Movie Trailers
YouTube				YouTube Search and Play
Local Media				Local Media Player

Within some players you may have to select from a choice of links and some of these will not play. If this is the case, select another link. There are some movies and shows where none of the links will play. We have no control of these.

15. IPTV Subscriptions

iPab.tv now has support for IPTV subscription services. There is inbuilt support for TWO types of IPTV subscription.

Supplier provided M3U file

If your provider has emailed you one or more M3U files for your IPTV subscription, FTP (using filezilla) your M3U file(s) to /hdd/ipabiptv folder and then follow these steps:

- Red Button > 4 (iPab IPTV Menu) > 2 (IPTV Bouquet Maker)

NOTE: -In the top part of the window you should see your M3U file(s) – If you do not see your file(s) listed here, that's because either you haven't FTPd them into the /hdd/ipabiptv folder OR the files are not M3U files.



- Select your playlist (if you have more than one, you need to install one at a time) and press OK or Green Button to install

The IPTV Bouquet will be created and Sky Bouquet Maker will run to ensure the IPTV bouquet list is in the correct place.

- Exit Button > Exit Button
- Down Arrow > Blue Button > Find your IPTV bouquet and press OK > Select the IPTV channel you wish to watch.

Note: - If no IPTV Bouquet is created, this is due to the M3U file provided being invalid – Check with your IPTV provider.

PikaFlik IPTV Subscriber

If you have an IPTV subscription with PikaFlik, the process of adding your IPTV is simple and automated. Just follow these steps

- Red Button > 4 (iPab IPTV Menu) > 3 (PikaFlik IPTV Bouquet Maker)
- Enter your PikaFlik username in the Username box using the number pad on your remote
- Enter your PikaFlik password in the Password box using the number pad on your remote
- Unless specifically requested to change the PikaFlik URL, leave this as no
- Green Button to save your details
- Blue Button to install your PikaFlik IPTV bouquets

Your box will now connect to the PikaFlik servers using the username and password you provided, download the configuration needed and will setup your IPTV Bouquets. Sky Bouquet Maker will run once complete to ensure your IPTV bouquets are in the correct place.

- Exit Button > Exit Button
- Down Arrow > Blue Button > Find your IPTV bouquet and press OK > Select the IPTV channel you wish to watch.

Note: - If no IPTV Bouquet is created, this is usually due to your username and password being incorrect.

If your IPTV Bouquets are not appearing in the Bouquet List

Depending on how you have been using your box, you may find that despite the install completing successfully, that you have no IPTV bouquets listed in your Bouquets list. Follow these steps:

- Red Button > 7 (iPab Quick Start Menu > 7 (Advanced Bouquets Management)
- Select Sky Bouquets Show/Hide and press OK
- Scroll through the list of Bouquets – If your IPTV bouquets are listed but unchecked, select them and press OK to change them to be checked

NOTE - *If your IPTV bouquets are not listed, they did not install*

- Green Button to save
- Select Populate Database

When the scan has finished, your IPTV Bouquets should be available

Delete IPTV Bouquets

- Red Button > 4 (iPab IPTV Menu) > 4 (Delete IPTV Bouquets)

Your box will remove all IPTV bouquets and restart

NOTE - *If you were watching an IPTV channel before you removed the IPTV bouquets, your box will show a blank channel once restarted – Simply type in the desired channel number you wish to watch*

16. How to Switch Skins & Add (or remove) Picons

iPab.tv has support for 3 Skins built in. These are Sky, Virgin and SkyQ. There is now also support for Picons. Switching between Skins (with or without Picons) is now fully automated. To switch Skin or to add or remove picons, follow these steps.

- Red Button > 3 (iPab Skins & Picons Menu)

Select the Skin/Picon option you wish to use. Your box will download and update picons as necessary. Once the skin and picon combination has been installed, Sky Bouquets Maker will run to ensure channel line up and EPG numbering is inline with the requirements of the skin (SkyQ can only be run without EPG numbers for example).

Once all of this is complete, your box will restart and your new skin and picons will be available for use.

NOTE: - *iPab.tv is designed to run, and will run best, with the Sky Skin no picons – If you experience any issues using other skins, please switch back to Sky Skin no picons*

17. Series Link

- Use the EPG to find the show you want to add to series link.
- Highlight the show and press the record button on your remote (The Red DOT near the other playback keys)
- Select 'Series Link'
- The next screen will show you the parameters that will match a show and generate a timer in order for the show to record.
- For shows that are on roughly the same time on the same day each week, these default settings are probably going to be OK for you
- For daily soaps you will need to change some options:
 - Deselect the option that says 'Only on Weekday' as leaving this selecting will only record a show on that particular day of the week
 - If the soap or show you want to record sometimes comes on at odd times of the day, deselect the 'Match Timespan' option
 - As an example, for Coronation Street, which is on regularly during weekdays once or twice a day, deselecting 'Only on Weekday' will generally be sufficient as the time span usually covers and hour before the start and an hour after the end of the show you selected which usually covers days when the show is on twice such as at 7:30 and 8:30 – But if in doubt, deselect the 'Match Timespan' option.
- Press Green to confirm these parameters
- The next page will confirm the extended settings and parameters – It's important to know that at this point, the series link is not set.
- You shouldn't need to change any setting here, so press Green to confirm the Series Link
- Press Exit to return to the TV
- After a brief pause you may see a message box confirming timers have been added

- Wait 30 seconds and then press Timer on your remote. You should see your Series Link in the list. For shows on once a week, you'll usually just see one show. For soaps etc, you should expect to see a few entries.



How to delete a Series Link

You can't just delete a timer from the timers list when you have a Series Link setup as within a few minutes, the Series Link has done its job and added the timer back in. In order to delete a Series Link you must follow these steps:

- Press Menu Button
- Select Timers > Auto Timers
- Find the Series Link you wish to remove and press Yellow Button to delete
- When prompted, select 'Yes, and delete all timers generated by this autotimer'
- Press Exit
- Select Timers
- Check your Series Link has been removed

18. Updating iPab.tv

It is important to know there are two types of update you can run which will update the box – The first is Software Updater. Software Update is for the underlying operating system for iPab.tv (which is OpenATV). See the Software Update section below for details, but it is recommended you run this on a weekly basis. The second is iPab.tv Update. This runs an update of the version of iPab.tv image (for example, from v1.3 to v1.4), but also contains an option for Emergency updates that you may be asked to run in some circumstances. Check iPab Update periodically (maybe every 3 to 6 months) to see if there is an update available. See the iPab Update section below for details.

Software Update

- Red Button > 1 (iPab Updater)
- Blue Button

A software update will now run and your box will restart

iPab Update (Standard Update)

- Red Button > 1 (iPab Updater)
- Green Button

Your box will check to see if there is an update available and will run the update if one is available. Follow further instructions on screen

iPab Update (Emergency Update)

- Red Button > 1 (iPab Updater)
- Yellow Button

Your box will check to see if there is an emergency update available and will run the update if one is available. Follow further instructions on screen

19. How to restore a backup image

If you've followed steps in this guide detailing how to backup your image, it's feasible that at some point you may well need to restore this backup to your box or another box. It's important to know that the backup will only work with boxes from the same series, which are:

- SH1 Series Boxes – S, S2, H1, H2
- H3 Series Boxes – H.S, H.2S, H.2H

Your backup will have been written to your USB HDD or USB Drive in a folder called fullbackup_zgemmah2s (Or similar). Inside this folder you will see one or more date stamped folders that correspond to when you performed the backup, and within these date stamped folders you will find a folder called zgemma. Copy the zgemma folder to a FAT32 formatted USB Drive.

Once the Zgemma folder is copied onto your FAT32 format USB drive, open the Zgemma folder and rename the file called noforce to force

- Turn your Zgemma box OFF using the white switch on the rear of the box
- Insert the USB thumb drive containing the iPad.tv image into the rear USB port (On the new Zgemma models you can use the front USB port, but for ease we will use the rear port here)
- Turn your Zgemma box ON using the white switch on the rear of the box
- The display on the front of your Zgemma box should say BOOT, then FLSH – If you do not see FLSH please refer to the Full Setup Guide for troubleshooting – Flashing the image will take 5-10 minutes depending on your box. Please be patient.
- Once flashing has completed the box will begin to load. It is VERY important that once the box is loaded that you remove the USB Thumb Drive and switch off your Zgemma box using the white switch at the rear of the box.

Troubleshooting

General Troubleshooting

Built into iPab.tv is a Information and Troubleshooting Menu – From here you will find most of the information you need to help diagnose a problem. To access this:

- Red Button > 6 (Information and Troubleshooting)

You will find quick access here to:

- Softcam Panel (To check status of Cam/Line)
- Mount Manager (To check if your HDD is initialised and mounted)
- Swap File Manager (To check if your Swap File is setup and running)
- Network Information (To see what the IP Address of your box is)
- Network Settings & Test (To perform a Network Test)
- Device Information (To show connected tuners and drives)
- Service Information (To show information of the channel being watched)

For more specific troubleshooting, check out the sections below.

20. Box Flashing Problems

Frequently I have requests to assist people who are unable to flash their boxes. Some times it's due to not following the instructions of how to do this but there are two other reasons why your box may not be flashing. The first is simple. The USB drive you have is no good – replace it. But as some seem reluctant to do this they often want to explore the second, more complex option. This is detailed here, but please be warned that this is time consuming and taking short cuts will only result in the box not flashing. And there are no guarantees that this will work, but you can be sure that if this does not work, your USB drive is NO GOOD.

- Download the HP USB Format Tool – this is available from <http://iPab.tv> in the Files & Docs section
- The file is a ZIP file and you MUST UNZIP this – running the HP USB Format Tool from within the ZIP without UNZIPPING it will result in the tool not working – Right click on the downloaded ZIP file and select Extract All
- Once the ZIP has been extracted, right click on the extract HPUSBdisk file and select Run as Administrator – Accept any prompt you might see about running the file as an Admin
- Ensure you select the USB drive in the Device dropdown box
- Select FAT32 as the File System
- You can leave the Volume Name as UNTITLED
- Ensure you remove the check from Quick Format – YOU MUST do a full format
- Click Start – Accept the warning message that your drive will be erased

The low level format will now begin and it WILL take a long time. Anything up to one hour per 1GB of drive size – Be patient – There is NO shortcut to this

Once the format is complete, follow the instructions starting at the Download the iPab.tv Image section above

21. EPG (Program Guide) Problems

On occasions you may find that the EPG shows the same programme info for some or all channels. This is usually a result of a corrupt epg.dat file that may have been caused by power outage or general issue writing to your USB drive. The fix described here should result in the epg.dat being deleted (which will initially leave you with a blank EPG) and fresh EPG data being downloaded. If you find this keeps happening, it's most likely a problem with your USB drive and I'd recommend replacing that – See the list of recommended equipment at the end of this guide.

- Red Button > 2 (Fixes Menu) > 4 (Remove all EPG Data)

- After a brief wait, your box will appear to restart

NOTE – At this point your EPG will be empty – The next steps depend on whether you are running Sky or Virgin – If you run both, run both steps

Sky

- Green Button > CrossEPG Downloader
- When CrossEPG has finished downloading a reboot is advised

Virgin

- Green Button > EPGRfresh
- Yellow Button > Refresh Now
- The screen will go blank for two minutes – This is to be expected
- When EPGRfresh has finished downloading a reboot is advised

22. Bouquet & Channel Problems

On rare occasions it may be necessary to completely remove all bouquets and all channels. The fix described will remove all bouquets and channels and will require a reboot before you scan for channels and bouquets again. This will look like the box is frozen on the boot screen (or a blank screen). This is to be expected. After this time you will need to Rescan for channels following the relevant part of the guide above.

Procedure if you want Sky Channels

- Red Button > 2 (Fixes Menu) > 1 (Delete ALL Bouquets, Channels and Database)
- After a brief wait, your box will appear to restart

NOTE – At this point the box will reboot – You'll know when it's rebooted as you will briefly see an empty channel bar on the bottom of the screen.

Now follow the steps from the relevant section of the guide to setup channels.

23. Enable/Disable Timeshift

To disable automatic starting of Timeshift:

- Red Button > 2 (Fixes Menu) > 7 (Disable Timeshift Autostart)
- Exit Button > Exit Button

Timeshift Autostart is now disabled

To enable automatic starting of Timeshift:

- Red Button > 2 (Fixes Menu) > 6 (Enable Timeshift Autostart)
- Exit Button > Exit Button

Timeshift Autostart is now enabled

24. Can't select CAM from list or CAM won't start

If you've recently made the move from VIX it is possible that you've accidentally edited files in the /etc/ folder which now mean that your CAM won't run. This is a very quick fix following the steps below.

- Red Button > 2 (Fixes Menu) > 2 (Fix CAMs)
- You will see a confirmation that the CAMs have been fixed
- Reboot your box and try your CAM

25. Video Resolution Unsupported by TV

Maybe you've moved the box to a new TV or a supplier sent you a box that has had its resolution set higher than your TV can support. You may see a message on your TV saying something like "Resolution Not Supported" or it maybe just that the screen is blank or flickering. There is now a super quick way to fix this even if you can't see what's happening on the TV Screen

- Green Button
- OK Button
- After a brief wait, your box will appear to restart
- When the box restarts, the video wizard will run – The settings you select are dependant on the features of your TV – Assuming your Box is connected by HDMI, then you will select HDMI for the first choice – Try 1080p for the resolution (If you lose picture, just wait 30 seconds whilst the screen reverts to the lower resolution and pick a lower resolution) – And then select 50hz for the Refresh Rate.
- You will then be taken to the last selected TV Channel

26. Audio Commentary

If you experience channels with undesired audio commentary (descriptions of what is happening) follow these steps:

- Red Button > 2 (Fixes Menu) > 5 (Fix Audio Commentary)
- You will see a confirmation that the Audio Commentary Settings have been fixed
- Exit Button > Exit Button

27. Error - Creating Hardlink to Timeshift File Failed!

If you experience this error it is usually due to your drive not being initialised. Follow these steps:

- Red Button > 7 (Quick Start Menu) > 2 (Hard Disk Initialisation)
- Select your USB Drive to initialise and press OK
- Red Button to Initialise
- Confirm you wish to initialise the device

Note – As the warning message says – Any data on the drive will be lost during initialisation

You will see the progress of the disk initialising. Once complete this will exit back to the iPab Quick Start Menu.

- Press 3 (Swap File Manager)
- Green Button (Create) > OK Button
- Select the size of swap disk – 256mb had proven best
- Press OK Button – You will see a message being displayed to "Wait please while creating swapfile..." - This should take no more than a few minutes.
- Once the text at the top of the screen has changed to 'Enable Swap at startup' you should then press Red Button (Activate) > Yellow Button (Autostart)

- Exit Button > Exit Button – This will return you to TV

Note – If you wish to enable Timeshift Autostart follow the steps shown in the Enable/Disable Timeshift section.

Recommended Equipment

28. Recommended USB Drives

There are two recommended drives for use on iPab.tv – One is a USB thumb drive, the other is a USB Drive.

San Disk Ultra Fit USB3 Drives – The smallest recommended size is 64gb, but they do a very reasonably priced 128gb version also.

Toshiba Canvio USB3 Drives – These are available in 500gb, 1TB and 2TB.

29. Recommended WiFi Dongle

The only WiFi Dongle recommended for use on iPab.tv is the Edimax ew-7811un. This WiFi dongle can be installed into your satellite box without the need to add drivers.

Thanks and Gratitude

Whilst literally thousands of my own hours have gone into the development of this custom image, it would not have been possible without the help and support of many other people; far too many for me to thank everyone individually. But there are some I feel I must thank (OK, so probably I'm obliged to thank them ☺)

Team ATV – iPab is based upon a great base OS, Open ATV, which unlike VIX, is fully supported for use on Zgemma boxes (which is where development of the iPab.tv started)

KiddaC – The author responsible for two of the skins used in this custom image. KiddaC can usually be found hanging out over at <http://Techkings.org> if you fancy dropping by and saying hi! And if you appreciate the time and effort he has put into to bring you the best Sky and Virgin skins, then please consider buying him a beer ;)

Chababu – Chab's designed and authored the SkyQ skin – Whilst not a personal favourite of mine, it's probably the most requested Skin on the run up to release of iPab V1.3. Again, you can find him hanging out at <http://Techkings.org> - If you use, like and appreciate him putting the time and effort in to develop the SkyQ skin, please remember to go and say thanks.

Samsamsam – The guy that authors and maintain IPTV player – Whilst a large number of 100+ sources he has now coded into IPTV player aren't great for English speaking users, I have to say that IPTV is far more usable and easier for me to keep up to date than things like Kodi. As he adds to IPTV player sources, I check everyone to see if it's suitable to be added into the iPab image. Keep up the great work.

To all of the other authors of plugins used in the iPab.tv image – Thank you – The combination of all of these plugins, carefully selected and optimised, helps make iPab.tv the great image it is.

To my admin team – The iPab.tv support Facebook group has grown steadily and surely, from the first users to around 1000 at the time of writing. I certainly couldn't keep up if it weren't for the great team. Kevin, Alex, Sy, David and Daniel – I know I'm not the easiest to work with so your support is really appreciated ☺

Beta Testers – iPab v1.3 was 3 months in development with a lot of long and late nights, but I get blind to some of the issues working with the image day in and day out – Thank you to the beta testers who helped me iron out the issues in the weeks running up to release.

Users of iPab.tv – What started out as a custom image for me, quickly turning into something so much more. I'm not sure I ever intended for some many people to be using the iPab.tv image, but the feedback you all give me is great and helps me to continually improve the image at each release.