PRO VIDEO INSTRUMENTS

VECOAX COMPACT RF SERIES MODULATOR MANUAL (V2)

NOTE: BEFORE INSTALLATION

Please test each unit with your TV's before installing your units to ensure you are receiving signal. This makes troubleshooting easier epesically for the Blade and Rack series of this Product.

This can be done simply by connecting your TV with a short piece of Coax cable to the RF out of the Unit and scanning for Digitial Channels on your TVs tuner. No HDMI needs to be Connected.

This will display our PVI logo on your TV.

By default our unit is set to QAM(J.83B Cable) Mode.

This can be changed by refering to our QUICK GUDIE below.

Depending on your supported TV standards, scan for Digital channels.

Please refer below for our QUICK GUIDE to setting up your Device for your application and needs.

PRODUCT SPECS

Power - 12v/DC (12v/1A)

All Major TV Encoder standards build-in. No need to reprogram or flash the unit to a different Format.

QAM (J.83B Digital Cable), ATSC (Digital Over the Air Channels), ISDBTb, DVBT, DVBC, DMBT Set via Color Display

Compact Design allows installation anyway.

Ultra-Low latency provides the ability to use menus on your HDMI source with ease.

Works with many different TV brands including Samsung, Sony, Vizio, LG, and More.

Receives on TV's as its own HDTV channel as a FULL HD signal Up to 1080P with Dolby Digital Audio (AC3)

Easy Plug and Play Setup with customization options available in the easy to use menu via a Color Display.

Works With any HD Video HDMI source.*(720P or 1080P/I Fixed Resolution)

Can be mixed with other HDTV signals such as Digital Cable or Over the Air Channels* (depending on Frequencies available for you to use)

Modular – Expandable – Reliable - 5 Year Warranty - Affordable

POWERING THE DEVICE. – QUICK GUDIE – USA/CANADA

1. **It is recommended to test the device first on a test bench for your application before making it a permanent installation to your system so troubleshooting is easier.**
2. **Connect your included Power adapter the unit.**
3. **Once the unit is powered on you will see the main menu.**
4. **First, Connect a short piece of coax cable to your TV's tuner and the other end to the unit's RF out.**
5. **On the unit press the enter button to enter the menu of the unit. The second option would be TV Standard.**
6. **Set your Standard you require. If you are unsure most newer TV's 3 years and above accept both ATSC(over the air channel) and QAM(J.83B Digital Cable).**
7. **By default, the unit is set to QAM (J.83B Digital Cable) Mode with a Frequency of 783.000 MHz which is Channel 122. The TV will Scan for the Frequency and pick up the channel on Cable.**
8. **Auto Scan for Digital Channels on your TV. Depending on your Location and Supported TV standards for your TV such as QAM (J.83B Digital Cable) or ATSC (Digital over the Air) will determine the Standard you need to set on the unit. Please Refer to CUSTOMIZATION below to change these settings.**
9. **Once the channel is found it will display our PVI logo when no HDMI is connected to the unit.**
10. **We can use the Major/Minor channels on the unit's settings to force change the channel number that is displayed & stored/referred to on your TV. By default, this is 1.1: Major 1, Minor 1. You may change this if you like to 122.1: Major 122, Minor 1. This will display and be stored as channel 122.1 on your TV.**

11. **Once we see our PVI logo on the Channel found on your TV, you may insert your HDMI source. Please ensure that your HDMI source such as a DVD player or DirecTV STB is set to a Fixed Resolution of 1080P or 720P.**

QUICK GUIDE – USA/CANADA – CONT.

1. **Once you have inserted a valid HDMI Video Signal into the HDMI port > The On-air LED on the front will Stay steady lit.**
2. **You should now see the video playing on you Channel.**
3. **If you wish to change the name of the channel that is displayed, you may do so under the Short name settings of the unit. 4-6 Characters max is allowed depending on your TV.**
4. **More detail information can be found below if more customization is required.**

NOTE: If the above is not working, please check all connections, Units Settings, Correct TV Standard is set for your TV, and ensure your video source is working or Set to a Correct Fixed Resolution. Please refer to your HDMI source Owner's manual on how to set a fixed resolution. You could also try with another TV with no HDMI connected to ensure you are getting a signal, or reset the VeCoax unit by holding the ESCAPE button for until it prompts you to factory reset the unit. Press enter to reset the unit's settings to default. This may also

be done in the advance menu of the unit called "RESET." If the "ON-AIR," LED does not stay steady, please ensure your HDMI source is set to a fixed resolution of 1080P or 720P and connected directly to the Unit. If you are using a Splitter, some splitters don't support EDID pass-through (Extended Display Identification Data used to tell the source or TV what video resolution is supported) Test your HDMI source without the Splitter connected.

CUSTOMIZATION AND PARAMETERS

Each unit is ready to work plug n play by default. After connecting the unit using our Quick guide above you may customize the unit to your needs such as Frequency, Major and Minor channel numbers, Short name, or TV standard.

QAM (J.83B DIGITAL CABLE)

These are the Defaults and Good starting point for **PLUG N PLAY** setup.

If you have more than one unit please ensure you change the **FREQUENCY**, **MAJOR/MINOR**, and **SHORT NAME** so they don't overlap and create issues.

- **SOURCE** – Set your Video Source HDMI, CVBS, or SDI depending on your model
- **STANDARD** – Set your TV standard depending on your needs, location, and support format of your TV.
- **FREQ** – Set your Frequency using our Frequency chart listed at the end of the manual. TV's will scan for the Frequency and the Frequency Channel it relates to first before being stored using the Major/Minor Channel you have set on the Unit. This is called the VCT(Virtual Channel Table)
- **VID QUALITY** – Set the Latency Mode of your Video.
- **MOD** – Modulation Mode you wish to use. QAM256 is the default mode.
  QAM 256 allows more bandwidth which results in smoother and Sharper picture but some older TV's don't support this. If your TV does not work in QAM 256 Please revert to QAM 64 mode.

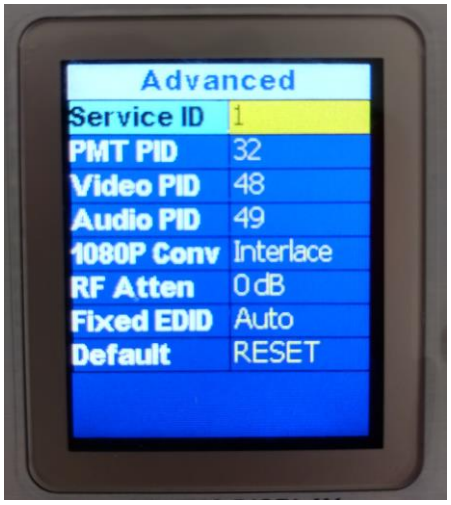
QAM (J.83B DIGITAL CABLE) – CONT.

Main Screen – this displays a short version of the current settings the unit is broadcasting on

Short Name – you will see this menu when changing the short name of your channel

- **MAJOR CHANNEL – This is the number that will be displayed and stored on the TV If you wish to display a different number than what the ACTUAL Channel is per Frequency Chart. EXAMPLE: 783MHZ is channel 122. We can have it Stored as Channel 1.1 on the TV so when we use the TV Remote and press 1 It will know to go to Frequency 783MHZ to display your PVI Channel.**
- **MINOR CHANNEL – This is your Sub channel Number. By default 1 is fine. If you wish to have many channels with the same Major number ex. 10 you would use the Minor to create Sub channels ex. 10.1 10.2 10.3 10.4 etc.**
- **SHORT NAME – Name of the Channel you wish to use. 4-6 Characters max depending on TV.**
- **AUDIO FORMAT – Set your desired Audio Format. AC3 is the Default Standard for ATSC and QAM mode.**
- **ADVANCE – Advance options for users who require Specific PID's or Fixed EDID information. Please don't change these unless you understand your required PID's or EDID per Cable Provider instructions or PVI Tech Support request.**

ADVANCE MENU – ADVANCE USERS ONLY



These are the Defaults

Please don't change these unless you have an understanding of PID's or require a specific PID set by your Service provider for Coax STB injection.

Changing these numbers can create unwanted effects to your channel.

- **DEFAULT – used to factory reset the unit to default.**

- **SERVICE-ID – Used to ID the Transport Stream**
- **PMT PID - Program Map Table used to provide information on each program present in the transport stream, including the program number, and list the elementary streams**
- **VIDEO PID – Video ID used in the Transport Stream to Identify the video inside the packet identifier**
- **AUDIO PID - Audio ID used in the Transport Stream to Identify the video inside the packet identifier**
- **1080P CONVERSION – Used to Downscale 1080P (Progressive) signals to 1080i (Interlace) to Support older TV's that don't support 1080P signals through the Tuner. If you know your TV supports 1080P through the tuner you may switch this to 1080P to receive the full 1080P signal from your 1080P Video Source.**
- **RF ATTENUATION – Default is 0DB which is the full strength 40+DBmv from the unit. If you require it to be lower set the RF attenuation higher. The higher the number the lower the signal strength will be. Ex RF attenuation 10 would be 30+/- DBmv signal.**

- **FIXED EDID – This will force the unit to only support a specific resolution so your HDMI source is forced to only output at that resolution set. Usual for HDMI sources that change resolution on the fly ex DirecTV Gene Boxes or another Cable provider STB's.**

ATSC (OVER THE AIR CHANNEL)

These are the Defaults and Good starting point for PLUG N PLAY setup.

If you have more than one unit please ensure you change the FREQUENCY, MAJOR/MINOR, and SHORT NAME so they don't overlap and create issues.

- **ADVANCE – Advance options for users who require Specific PID's or Fixed EDID information. Please don't change these unless you understand your required PID's or EDID per Cable Provider instructions or PVI Tech Support request.**

- **SOURCE – Set your Video Source HDMI, CVBS, or SDI depending on your model**
- **STANDARD – Set your TV standard depending on your needs, location, and support format of your TV.**
- **FREQ – Set your Frequency using our Frequency chart listed at the end of the manual. TV's will scan for the Frequency and the Frequency Channel it relates to first before being stored using the Major/Minor Channel you have set on the Unit. This is called the VCT(Virtual Channel Table)**
- **VID QUALITY – Set the Latency Mode of your Video.**
- **MAJOR CHANNEL – This is the number that will be displayed and stored on the TV If you wish to display a different number than what the ACTUAL Channel is per Frequency Chart. EXAMPLE: 473MHZ is channel 14. We can have it Stored as Channel 1.1 on the TV so when we use the TV Remote and press 1 It will know to go tune to Frequency 473MHZ to display your PVI Channel.**
- **MINOR CHANNEL – This is your Sub channel Number. By default 1 is fine. If you wish to have many channels with the same Major number ex. 10 you would use the Minor to create Sub channels with the same Major ex. 10.1 10.2 10.3 10.4 etc.**
- **SHORT NAME – Name of the Channel you wish to use. 4-6 Characters max depending on TV.**
- **AUDIO FORMAT – Set your desired Audio Format. AC3 is the Default Standard for ATSC and QAM mode.**
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DVB-T GENERIC – PLEASE REFER TO YOUR LOCATION NEEDS

STATUS DISPLAY

These are the Defaults and Good starting point for PLUG N PLAY setup.

If you have more than one unit, please ensure you change the FREQUENCY and LCN so they don't overlap and create issues.

- **ADVANCE – Advance options for users who require Specific PID's or Fixed EDID information. Please don't change these unless you understand your required PID's or EDID per Cable Provider instructions or PVI Tech Support request.**

- **SOURCE – Set your Video Source HDMI, CVBS, or SDI depending on your model**
- **STANDARD – Set your TV standard depending on your needs, location, and support format of your TV.**
- **FREQ – Set your Frequency using our Frequency chart listed at the end of the manual. TV's will scan for the Frequency and the Frequency Channel it relates to first before being stored using the LCN**
- **BW – Bandwidth can be changed for your regions requirements.**
  EU/NEW ZEALAND = 8 MHz
  AUSTRALIA = 7 MHz
  COLOMBIA\PANAMA = 6 MHz
- **VID QUALITY – Set the Latency Mode of your Video.**
- **MOD – Modulation Mode which you can set to match your region's needs.**
- **FTT – Fast Fourier Transform can be set here depending on your needs and region. This controls number of carriers per a given bandwidth**
- **GI – Guard interval can be set here**
- **CR – code rate which controls carrier to noise ratio**
- **LCN – logical channel number can be set here. This is the channel number that will be stored and displayed on the TV**
- **SERVICE NAME – Name of the Channel you wish to use. 4-6 Characters max depending on TV.**
- **AUDIO – Default is MPEG**

DVB-C

STATUS DISPLAY

These are the Defaults and Good starting point for PLUG N PLAY setup.

If you have more than one unit please ensure you change the FREQUENCY, LCN, and SERVICE NAME so they don't overlap and create issues.

- **SOURCE – Set your Video Source HDMI, CVBS, or SDI depending on your model**
- **STANDARD – Set your TV standard depending on your needs, location, and support format of your TV.**
- **FREQ – Set your Frequency using our Frequency chart listed at the end of the manual. TV's will scan for the Frequency and the Frequency Channel it relates to first before being stored using the Major/Minor Channel you have set on the Unit. This is called the VCT(Virtual Channel Table)**
- **VID QUALITY – Set the Latency Mode of your Video.**
- **MOD – Modulation mode can be set here depending on your needs for your region from 16- to 256-QAM**
- **LCN – logical channel number can be set here. This is the channel number that will be stored and displayed on the TV**
- **SERVICE NAME – Name of the Channel you wish to use. 4-6 Characters max depending on TV.**
- **AUDIO FORMAT – Set your desired Audio Format. AC3 is the Default Standard for ATSC and QAM mode.**
- **ADVANCE – Advance options for users who require Specific PID's or Fixed EDID information. Please don't change these unless you understand your required PID's or EDID per Cable Provider instructions or PVI Tech Support request.**

ISDBT

STATUS DISPLAY

These are the Defaults and Good starting point for PLUG N PLAY setup.

If you have more than one unit please ensure you change the FREQUENCY, KEY ID, and SERVICE NAME so they don't overlap and create issues.

- **SOURCE – Set your Video Source HDMI, CVBS, or SDI depending on your model**
- **STANDARD – Set your TV standard depending on your needs, location, and support format of your TV.**
- **FREQ – Set your Frequency using our Frequency chart listed at the end of the manual.**
- **VID QUALITY – Set the Latency Mode of your Video.**
- **KEY ID – This is the number that will be displayed and stored into the TV**
- **SERVICE NAME – Name of the Channel you wish to use. 4-6 Characters max depending on TV.**
- **AUDIO FORMAT – Set your desired Audio Format. AC3 is the Default Standard for ATSC and QAM mode.**
- **ADVANCE – Advance options for users who require Specific PID's or Fixed EDID information. Please don't change these unless you understand your required PID's or EDID per Cable Provider instructions or PVI Tech Support request.**

DTMB

STATUS DISPLAY

These are the Defaults and Good starting point for PLUG N PLAY setup.

If you have more than one unit please ensure you change the FREQUENCY, LCN, and SERVICE NAME so they don't overlap and create issues.

- SOURCE – Set your Video Source HDMI, CVBS, or SDI depending on your model
- STANDARD – Set your TV standard depending on your needs, location, and support format of your TV.
- FREQ – Set your Frequency here. Because of the wide range that DTMB covers determine the Frequencies available. Please search for these online for your region.
- VID QUALITY – Set the Latency Mode of your Video.
- MODE – Modulation mode can be set here depending on your needs for your region
- LCN – logical channel number can be set here. This is the channel number that will be stored and displayed on the TV
- SERVICE NAME – Name of the Channel you wish to use. 4-6 Characters max depending on TV.
- AUDIO FORMAT – Set your desired Audio Format. AC3 is the Default Standard for ATSC and QAM mode.
- ADVANCE – Advance options for users who require Specific PID's or Fixed EDID information. Please don't change these unless you understand your required PID's or EDID per Cable Provider instructions or PVI Tech Support request.

INSTALLING MULTIPLE UNITS

To install multiple units on the same coax network, make sure to CHANGE the Frequencies as per the frequencies chart for the standard in use which can be found starting on page 22, Major/Minor, and Short Name of each Module BEFORE you connect them to the same coax network, so there will be no Channel Conflicts. By default, each unit will be set the same. Do Not Daisy Chain Units Using The Rf In, Rf Out.

Please Test each unit directly connected to a Test TV first with a short piece of coax BEFORE making it a permanent installation such as a Rack mount to make troubleshooting easier. Once you have all your units' setup test again with a test TV first before combining the units with your coax network.

If you have other modulators or Digital signals you must find a harmony between the RF levels and Frequency's that are available such as ATSC (Over the Air Antenna) signal. Please refer to your other modulators settings to find the frequencies the populated and set your unit to a different set. Please see combining ATSC/QAM signals in our manual below for more information about combining with other Digital Signals from Providers

To change the Frequencies of each module, press enter button the unit to enter the menu. Navigate using the keys to FREQ. Press enter and use the navigation keys to change the numbers. The frequency is in Kilohertz. So 783Mhzs would be 783000 kHz on the unit. Once you have set the Frequency press enter and then move on to changing the Major/Minor channel as well as the short name if you wish. Once you have set all your settings press ESCAPE. This will prompt you to save your changes. Use the navigation keys to Highlight Yes and press Enter. The unit will now go back to the main screen and restart the encoder. Once the unit saves the settings you will see "transmitting," and a Solid Blue LED on the "ON-AIR."

Write down these values or channel numbers, or put a sticker on each unit with the newly assigned frequency and channel Number so it will be easy to troubleshoot the unit in future without the need to reset it or dismantle everything. Depending on your setup it's suggested to use an active splitter or combiner with more than 6 units, 40+ TV's or using multiple splitters(each splitter will lower the DB level 5-10dbs depending on the quality) to ensure you get a clear signal to all your TV's no matter the distance.

If your system works without one then it is not necessary. Again this is a Suggestion and not required for operation of your devices.

COMBINING SERVICE PROVIDERS SIGNALS OR ATSC WITH YOUR DEVICE

For Combining ATSC (Over the Air channels) you must find the frequencies that are used by your local stations. This information can usually be found online by searching for, "(insert your local area) ATSC frequency chart." This will give you a nice table that shows all the Frequencies used in your area. Find the ones that are not used and write those down. Set your device(s) to those unused frequencies. Test using your Test TV.

Note: For installers, it is recommended but not necessary to use a Spectrum analyzer to see the spectrum available to you to make the installation easier. This does not require an expensive unit to do this. Any Spectrum tester to view the available frequencies will help you in the process.

For combining with cable Service provider the same rules apply. You can contact your local service provider of your basic cable to find the frequencies that they use and fine the ones that are available for you to use. If you wish to inject into a Digital Cable Converter box or STB (set-top box) most of the time the service provider will include a channel you may broadcast onto or some providers require a specific PID's to be set which can be set in the ADVANCE MENU in order for the Set to box to be able to read the channel.

AUDIO ENCODING SETTINGS

The unit has three standards of Audio Encoding. Depending on your local and supported format per TV you can set the following:

- AC3 **– 2.1 Dolby Digital Audio US/Canada Standard for Broadcasting**
- MPEG **– MPEG 2 Layer II used in DVB-T EU Standard.**
- ACC **- Advanced *Audio* Coding or MPEG-4. Used in some ATSC broadcasts and ISDBT format. Supported by Most TV's worldwide.**

If your HDMI source has Compressed Audio or Dolby Digital Enabled it is recommended to set your HDMI source to Stereo PCM or Uncompressed Audio to ensure you get a clean audio signal to your TV. Double compression can cause a lot of audio skipping issues.

VID QUAILTY MODES

The Vid Quality modes on the unit determine the speed and size of information sent to your TV's tuner decoder. The default is LOW LATENCY. Only if you experience any image issue on the TV should you change this setting. Using the other options available such as HIGH or Average will only change the speed the information is given to the TV to be able to decode the picture properly (For slower Television tuners and models)

LOW LATENCY - This mode is the fastest in terms of information sent to the TV. It sends frame by frame which will give you the best picture and ultra-low delay for applications that require constant use of the HDMI Source menu system such as Cable provider boxes or DVD players.

AVERAGE – This is a good balance between lower latency and speed of information sent to your TV's tuner. This mode sends the Information in smaller chunks rather than instant refresh rate which helps with slower TV tuners that have slower/smaller decoder memory. This form of chucks can help give a very slight increase in image quality due to the Tuner having time to decode each picture at its own pace.

HIGH - This mode sends the Information in Lager chunks than Average mode which again can help with slower TV tuners that have slower/smaller decoder memory. This form of chucks can help give a very slight increase in image quality due to the Tuner having more time to decode each picture at its own pace before the next set of chunks are received.

Note: A higher delay will occur with these modes due to the delivery of the information to the tuner in form of chucks rather than picture by picture.

TROUBLESHOOTING

NOT RECEIVING SIGNAL TO MY TV. WHY?

Please check your settings of the unit and ensure the correct standard is set. Check all your connections and scan for the standard you have set on the unit. Example QAM – Scan for Digital Cable on your TV

I plugged my unit up and it's not working? – Please follow our Quick Guide for setting up the unit. Double check your connections as well.

"ON-AIR" LED IS BLINKING

Check the HDMI source Resolution and please ensure you have a FIXED resolution set. Please refer to your HDMI source Owner's Manual on setting a Fixed Resolution and not auto. The unit see's your video but cannot accept the resolution to encode it for coax usage your TV tuner can understand.

UNIT WON'T POWER ON?

Check your included power adapter. Ensure that you have a solid connection and the DC jack is screwed on correctly.

I SEE THE PVI TEST PATTERN BUT NO VIDEO IS PLAYING!? WHY?

Check your HDMI connection. Check the HDMI source Resolution and please ensure you have a FIXED resolution set. Please refer to your HDMI source Owner's Manual on setting a Fixed Resolution and not auto. Test with a different Video source such as a DVD player or FireTV stick.

I HAVE 2+ UNITS HOW DO I SET THEM UP TO WORK TOGETHER?

Please refer to our "Installing Multiple Units," guide above

WHAT ARE THE BEST SETTINGS FOR THE BEST QUALITY VIDEO?

Depending on your Region will determine your settings that need to be set. The unit already outputs a great quality video.

For people who want the best, we recommend for USA/Canada to use QAM(J.83B) when available as this will give you the highest bitrate possible as well as using MOD - QAM256 set on your unit which will increase the bandwidth of the signal allowing more information to flow.

Set your HDMI source to 1080p

Set your Unit to 1080P Mode -> Advance options -> 1080P Conversion -> Auto

This will allow the 1080P signal to pass. If your TV tuner does not support 1080P through the tuner you will not receive any signal or video. If this happens, switch it back to "Interlacing."

Depending on if you care about the low latency mode or not you can change the Vid Quality to "HIGH." A very slight change in image quality will happen as well as an increase in delay between menus GUI's due to the information handling sent to your TV. Please refer to Vid Quality settings in the manual above for more information.

MY PICTURE LOOKS GREAT UNTIL THERE IS FAST MOTION –

This could be an "interlacing," issue with the 1080i mode. This happens a lot with sports. Some TV's don't like Interlacing trough the tuner causing "Ghosting." Change your HDMI source to 1080P (progressive) or 720P as well as on the unit 1080P Mode -> Advance options -> 1080P Conversion -> Auto

This will allow the 1080P signal to pass. If your TV tuner does not support 1080P through the tuner you will not receive any signal or video. If this happens, switch it back to "Interlacing," and use 720P

Try changing the VID QUALITY settings as well to help with slower Tuners or if using QAM (J.83B) switch your MOD from QAM64 to QAM256 if supported by your TV.

HOW DO I MIXED MY UNIT WITH OTHER DIGITAL SIGNALS

Please refer to the, "MIXING SIGNALS WITH OTHERS," in our manual above

MY VIDEO IS STRETCHED OUT ON THE TV

Our unit has a passive HDMI meaning it only encodes what the video is being sent to the unit. It does not change the color or Aspect ratio of the video to your TV. Please check your HDMI source or TV aspect Settings.

HOW DO I REPLACE AN OLD MODULATOR WITH THIS ONE

Depending on how your old modulator was set up will determine how you will set your new unit up. Please refer to your settings of the modulator you are replacing and copy the settings as best as possible such as Frequencies, Channel Number, Name, etc. Please refer to the, "CUSTOMIZATION SETTINGS," above.

I AM LOSING OTHER CHANNELS IN MY COAX NETWORK WHEN I TURN ON THE PVI UNIT

Check to ensure you are not broadcasting on the same frequency as other signals. Please refer to our, "MIXING SIGNALS WITH OTHERS," guide above. It could be that our unit is oversaturating the other signals as well because of the strength of the signal. Try lowering the RF level under the, "ADVANCE MENU." This acts as a digital form of attenuation. Using attenuators works as well or amplification of the other signal such as antenna signal coming in before combining it in your coax network.

WHAT ARE ALL THE STANDARDS ON THE UNIT AND WHAT DO THEY MEAN

Each region in the world uses its own Standard that they have adopted. You can check the standards that are used in your area, online. At the moment this is the current standards used according to our Sources. You can refer to each Standard and how to set your unit to these standards above.

USA TV CABLE = J83B mode

USA TV AIR = ATSC mode

EU/CO/NZ/AU = DVBT

LATIN AMERICA = ISDB

CHINA = DTMB

EU = DVB-C

I AM FEEDING A 1080P SIGNAL BUT MY TV SAYS ITS 1080I

Set your Unit to 1080P Mode -> Advance options -> 1080P Conversion -> Auto

This will allow the 1080P signal to pass. If your TV tuner does not support 1080P through the tuner you will not receive any signal or video. If this happens, switch it back to "Interlacing."

TECH SUPPORT

Please read carefully all this manual as it covers ALL and EVERY aspect to set this product as per your needs, using pictures and examples.

Should you need any additional support please go to pvisupport.com and open a quick ticket.

Remote locations that you require support please can Schedule a time at least 24-48 hours in advance that works best for everyone.

The free tech support is active MON-FRI 10 AM – 4 PM US EST TIME Tickets posted out from this time window or on Saturdays Sundays and US/FL holidays days are responded ASAP the next following business day

If you need to check your configuration, you will be asked to provide a TEAMVIEWER ID and PASS so our engineers will connect shortly and help you to trouble shoot and set your system together with you. Help on settings is not possible over the phone nor in other ways but the TeamViewer. You can download and install a copy of TEAMVIEWER Version 11 from teamviewer.com or we can provide you a temporarily access link by opening a Ticket and requesting support.

USA J83B CABLE CHANNELS APPENDIX

NORTH AMERICAN DIGITAL QAM CABLE TELEVISION CHANNELS / FREQUENCIES

6 MHz Apart

SUGGESTED DEFAULT = 783000KHZ (783 Megahertz) = frequency channel 122

Note: this is just the frequency the VeCOAX will use on the coax cable spectrum
IT IS NOT the memory position number on the TV
You can set ANY memory position number on the TV by setting the Major/Minor Number as you prefer. EXAMPLE **1.1 so it will go to the button number 1 on the TV remote**

Channel Number	QAM / CDSREF Carrier (MHz)
Subband "T" Channels	6 MHz Apart
Lowband	
2	57.00
3	63.00
4	69.00
1	75.00
5	79.00 or 81.00

6	85.00 or 87.00
Midband	
95	93.00
96	99.00
97	105.00
98	111.00
99	117.00
Midband	
14	123.00
15	129.00
16	135.00
17	141.00
18	147.00
19	153.00
20	159.00
21	165.00
22	171.00
Highband	

7	177.00
8	183.00
9	189.00
10	195.00
11	201.00
12	207.00
13	213.00
Superband	
23	219.00
24	225.00
25	231.00
26	237.00
27	243.00
28	249.00
29	255.00
30	261.00
31	267.00
32	273.00

33	279.00
34	285.00
35	291.00
36	297.00
Hyperband	
37	303.00
38	309.00
39	315.00
40	321.00
41	327.00
42	333.00
43	339.00
44	345.00
45	351.00
46	357.00
47	363.00
48	369.00
49	375.00

50	381.00
51	387.00
52	393.00
53	399.00
54	405.00
55	411.00
56	417.00
57	423.00
58	429.00
59	435.00
60	441.00
61	447.00
62	453.00
63	459.00
64	465.00
Ultraband	
65	471.00
66	477.00

67	483.00
68	489.00
69	495.00
70	501.00
71	507.00
72	513.00
73	519.00
74	525.00
75	531.00
76	537.00
77	543.00
78	549.00
79	555.00
80	561.00
81	567.00
82	573.00
83	579.00
84	585.00

85	591.00
86	597.00
87	603.00
88	609.00
89	615.00
90	621.00
91	627.00
92	633.00
93	639.00
94	645.00
Jumboband	
100	651.00
101	657.00
102	663.00
103	669.00
104	675.00
105	681.00
106	687.00

107	693.00
108	699.00
109	705.00
110	711.00
111	717.00
112	723.00
113	729.00
114	735.00
115	741.00
116	747.00
117	753.00
118	759.00
119	765.00
120	771.00
121	777.00
122	783.00
123	789.00
124	795.00

125	801.00
126	807.00
127	813.00
128	819.00
129	825.00
130	831.00
131	837.00
132	843.00
133	849.00
134	855.00
135	861.00
136	867.00
137	873.00
138	879.00
139	885.00
140	891.00
141	897.00
142	903.00

143	909.00
144	915.00
145	921.00
146	927.00
147	933.00
148	939.00
149	945.00
150	951.00
151	957.00
152	963.00
153	969.00
154	975.00
155	981.00
156	987.00
157	993.00
158	999.00

USA ATSC AIR CHANNELS APPENDIX

NORTH AMERICAN DIGITAL ATSC OFF AIR TELEVISION CHANNELS / FREQUENCIES

SUGGESTED DEFAULT = 473000KHZ (473 Megahertz) = frequency channel 14

6 MHz Apart

Note: this is just the frequency the VeCOAX will use on the coax cable
IT IS NOT the memory position number on the TV
You can set ANY memory position number on the TV by setting the Major/Minor Number as you prefer. EXAMPLE **1.1 so it will go to the button number 1 on the TV remote**

(frequencies in MHz) 6 MHz Apart	
Channel	ATSC FREQUENCY
2	57
3	63
4	69
5	79
6	85

VHF high-band (band III)	
Channel	ATSC FREQUENCY

7	177
8	183
9	189
10	195
11	201
12	207
13	213

UHF band

Channel	ATSC FREQUENCY
14	473
15	479
16	485
17	491
18	497
19	503
20	509
21	515
22	521
23	527
24	533
25	539
26	545
27	551
28	557
29	563

30	569
31	575
32	581
33	587
34	593
35	599
36	605
37	611
38	617
39	623
40	629
41	635
42	641
43	647
44	653
45	659
46	665
47	671
48	677
49	683
50	689
51	692
Channel	ATSC FREQUENCY
52	701
53	707

54	713
55	719
56	725
57	731
58	737
59	743
60	749
61	755
62	761
63	767
64	773
65	779
66	785
67	791
68	797
69	803
Channel	ATSC FREQUENCY
70	809
71	815
72	821
73	827
74	833
75	839
76	845
77	851

78	857
79	863
80	869
81	875
82	881
83	887

LATIN AMERICA ISDBT CHANNELS APPENDIX

SUGGESTED DEFAULT = 473142KHZ (473.142 Megahertz) = freq channel 14

473142 channel 14

479142 channel 15

485142 channel 16

491142 channel 17

497142 channel 18

503142 channel 19

509142 channel 20

515142 channel 21

521142 channel 22

527142 channel 23

533142 channel 24

539142 channel 25

545142 channel 26

551142 channel 27

557142 channel 28

563142 channel 29

569142 channel 30

575142 channel 31

581142 channel 32

587142 channel 33

593142 channel 34

599142 channel 35

605142 channel 36

 # channel 37 not used

617142 channel 38

623142 channel 39

629142 channel 40

635142 channel 41

641142 channel 42

647142 channel 43

653142 channel 44

659142 channel 45

665142 channel 46

671142 channel 47

677142 channel 48

683142 channel 49

689142 channel 50

695142 channel 51

701142 channel 52

707142 channel 53

713142 channel 54

719142 channel 55

725142 channel 56

731142 channel 57

737142 channel 58

743142 channel 59

749142 channel 60

755142 channel 61

761142 channel 62

767142 channel 63

773142 channel 64

779142 channel 65

785142 channel 66

791142 channel 67

797142 channel 68

803142 channel 69

DVBT CHANNELS APPENDIX

Please download the DVBT additional PDF for your country available on our Tech Support Website – pvisupport.com

EUROPE/NEW ZEALAND = 8 MHz band

AUSTRALIA = 7 MHz Band

COLOMBIA = 6 MHz Band

END