PRO VIDEO INSTRUMENTS

PVI

PLUG AND PLAY YOUR UNIT AS FOLLOWS

1) Connect a laptop for your first testing to the **NMS PORT**
Set the LAN IP of your computer to Fixed 192.168.0.100
Open your WEB browser AND POINT http://192.168.0.136
Log in to the control interface with username " admin " password " admin "

2) Connect your Video Sources following the Quick Start Guide Manual

3) Connect your first test TV with a short coax cable, directly to the modulator
Make Sure the **ANTENNA MODE** on your TV is set to DIGITAL OFF AIR mode

4) Reset your TV channel list and SCAN for channels. Current channels are :
➤ Channel 10 DIGITAL OFF AIR – 195 Mhz

**FOR OTHER CHANNELS SEE OUR CHANNEL/FREQUENCY TABLE
IN THE QUICK START MANUAL**

If your unit is not encoding there might be a pending reboot—turn OFF/ON

IPTV Streaming – (available if purchased)
Download VLC VIDEOLAN.ORG – connect to IPTV port on rear
OPEN / MEDIA /NETWORK / and enter the following to play the channel
Stream 1 > udp://@224.2.2.2:1234

** CURRENT PARAMETERS HERE **

Thank you for purchasing our Product
Everything we do at ProVideoInstruments is geared around customer satisfaction.
We take pride in offering the finest quality products at affordable prices.
If you have any questions or require technical support on your ProVideoInstruments product, we are here to help.
Advice and support are provided free of charge as long as you own the product.
Live support is provided from 9:00am to 4:00pm US EST Monday through Friday
For ONLINE HELP go to WWW.PVISUPPORT.COM or simply email us to support@provideoinstruments.com

IMPORTANT : ACTIVATE YOUR 5 YEARS WARRANTY EXTENSION TODAY !

Not activating within 30 days from today you will only access to the standard warranty of 12 Months
Go today on www.provideoinstruments.com/register5years.html and register your product, so we can better serve you, thank you

STOP

READ THIS FIRST

PVI offers Free Unlimited Premium Tech Support Services

For any urgent Question, Tech Support, Help, Configuration

GO TO **WWW.PVISUPPORT.COM**

Use the SEARCH to find any Answer in real time

with step by Step explanations you can print out and use

If you cannot find your answer, open a urgent Ticket

or send an email to support@provideoinstruments.com

We understand your urgency so we respond urgently

1 CHANNELS – MS - ATSC

1x HDMI

QUICK PROGRAMMING GUIDE

Important Suggestions

To Learn and operate this equipment correctly we strongly suggest you please follow these important points :

- **Use a Player set to 1080i or 720p – DO NOT USE A COMPUTER PLAYER AT FIRST**

- **Use the above parameters, do not change at first**

- **Connect a local TV directly to this modulator through a short piece of antenna cable**

- **Test everything and when everything is ok, change / connect, STEP BY STEP, the final devices or parameters, so if one does not work, you can troubleshoot that or go back to the previous test.**

- **If your TV is not receiving, Make sure the ANTENNA MODE is set to DIGITAL AIR, as if it is set to CABLE or ANALOG it won't receive these digital channels**

- **If you connect your antenna distribution and some of your TVs are not receiving or shows pixels, there is too much loss of signal on the distribution cables/splitters. Add one antenna amplifiers of 4 or more decibels of gain on your splitters input to compensate their loss. If the local TV works well, all TVs must be able to do the same, unless the received signal is too low, so you need to reamplify**

- **IMPORTANT : There could be a situation where our signal level is too high and saturates the input of following Active splitters.**
If you still have pixelization, please go to the MODULATOR menu, and try reducing the out level to -20 or -30 db, so there is no more saturation on the following distribution circuits

Connect your PC to the modulator

- Use a common Ethernet PATCH CORD (any) and connect your computer ethernet lan interface port to the NMS (network management software) port on the modulator

- Make sure your computer Lan port is set to a FIXED IP NETWORK ADDRESS, in the range of the current ip address of the modulator. The factory default ip address of the modulators is 192.168.0.136, so you could set your computer to 192.168.0.100

- Open the WEB BROWSER on your computer and enter in the address field 192.168.0.136 then hit enter

- The login splash screen of the connected modulator will show up and you can proceed to login with user name "admin" and password "admin"   or the passwords you set before.

- If you cannot connect, please check the current IP ADDRESS of the modulator from the front panel display, navigating the menu by pressing the lck button, network ..
  You pc MUST BE in the same ip address range and only the last 3 digits must be different.

- To configure your PC IP address, please contact your computer vendor or view the instruction manual related to your version of operative system on your computer

Web Management

- Welcome

- Parameter
  - Input 1
  - Input 2
  - ASI Input
  - VCT
  - IP Output
  - Modulator
  - •
- ave/Restore
- System
  - Reboot
  - Firmware
  - Network
  - Password
  - Backup/Load

Save Configuration

When you change the parameter, you shoud save configuration , otherwise the new configuration will lost after reboot.

Save config

Restore Configuration

Load latest saved configuration, after click the "Restore" then please click the "Save config" button, otherwise the "Restore" parameter will lost after reboot.

Restore

Factory Set

Set all configuration back to default, after click the "Factory Set" then please click the "Save config" button, otherwise the default parameter will lost after reboot.

Factory set

- Test the LOW DELAY mode in Normal Mode.
  You can also test MODE 1 and MODE 2 later should you need ultra low latency encode mode, if supported by your television

HERE YOU SET THE OUTPUT CHANNEL

IN THIS EXAMPLE :

VIDEO INPUT 1 GOES TO FREQUENCY 195 MHZ = CHANNEL 10 DIGITAL OFF AIR

YOU CAN CHANGE THE CHANNEL AS YOU NEED

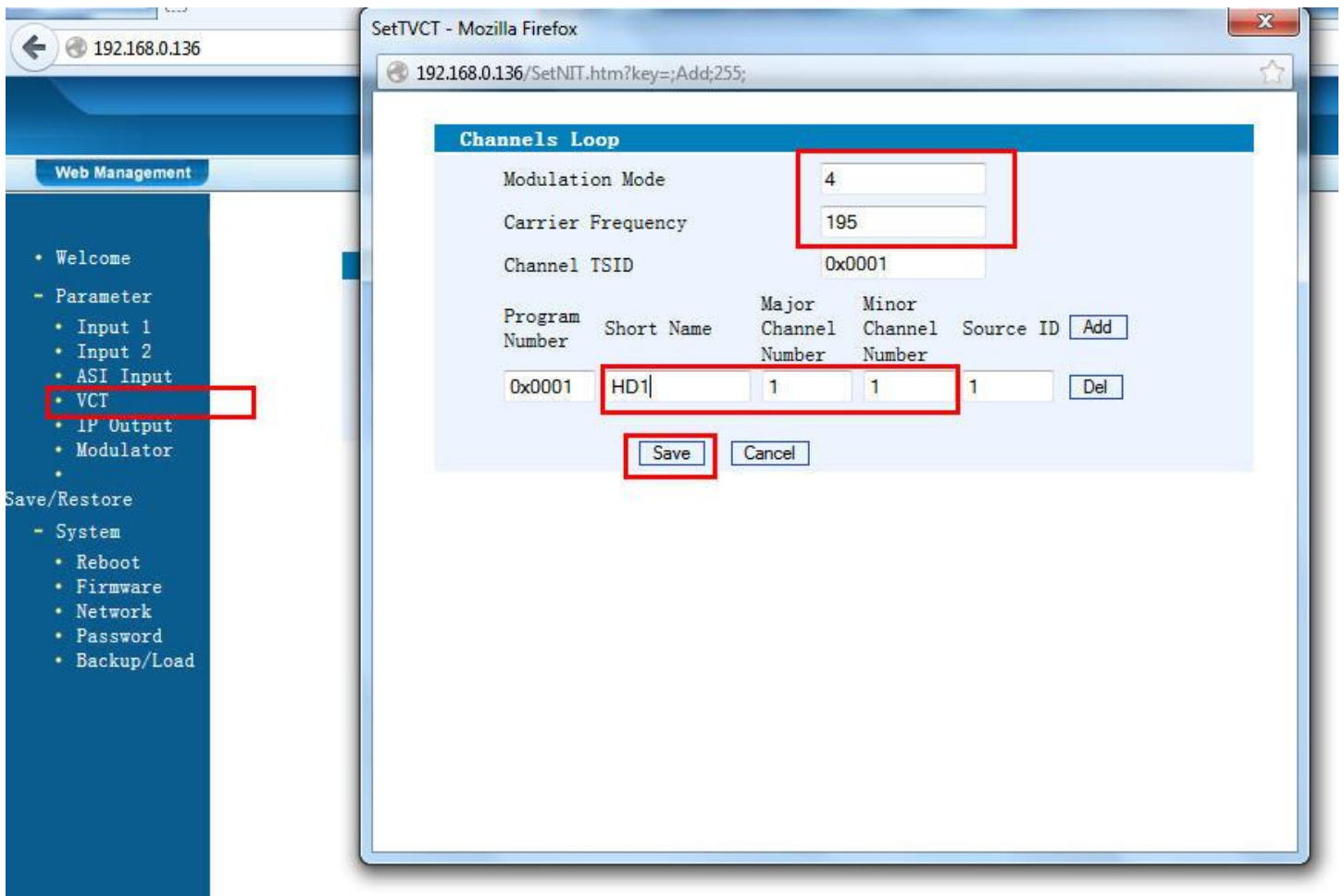**Please find the channel/frequencies table at the end of this manual**

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Virtual Channel Table

Transport Stream ID	0x0001		

TSID	ModulationMode	Carrier Frequency	Add	Del-All

| Help | | | | Update VCT |

THIS SETS THE " NAME " FOR YOUR VIDEO INPUT #1, THAT WILL DISPLAY ON THE TV SCREEN WHEN YOU CHANGE TO THIS CHANNEL.

ALSO SETS THE DESTINATION CHANNEL NUMBER ON THE TVs (MAJOR) AND SUB CHANNEL NUMBER (MINOR)

IN THIS EXAMPLE THE FIRST VIDEO IN WILL BE CALLED HD1 AND WILL BE ON 1.1

192.168.0.136

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Virtual Channel Table

Transport Stream ID	0x0001			
TSID	ModulationMode	Carrier Frequency	Add	Del-All
0x0001	4	195	Detail	Del

Help   Update VCT

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IP Output Configuration

IP Output Enable:	If not set, the following parameters will be no use, the IP Output will not work.
Service IP:	The IP Output port address. The format is xxx.xxx.xxx.xxx (like 192.168.2.137).
Output IP:	The IP Output data receive address. The format is xxx.xxx.xxx.xxx (like 224.2.2.2). After set the Output IP address, you must use the new address to receive IP Output data.
Subnet Mask:	General is 255.255.255.0, it is must the same in a local area network.
Gateway:	If the device is in different net segment, you must set the gateway.
Port:	The UDP protocol port (like 8001), you should use Output IP and new port to receive IP Output data (like udp://@224.2.2.2:8001)

IP Output Enable:	☑
Service IP:	192.168.2.137
Output IP:	224.2.2.2
Subnet Mask:	255.255.255.0
Gateway:	192.168.2.0
Port:	1234

[Default]   [Apply]

TO PLAY IPTV ON YOUR LAPTOP :
A) SET YOUR LAPTOP LAN PORT TO IP ADDRESS 192.168.0.100

B) CONNECT THE COMPUTER DIRECTLY TO THE IPTV CONNECTOR VIA A PATCH CORD FIRST.

B) DOWNLOAD AND INSTALL VLC PLAYER FROM VIDEOLAN.ORG
** SEE COMPATIBILITY WITH YOUR CURRENT OPERATIVE SYSTEM.**

C) START VLC AND CLICK ON MEDIA ON TOP RIGHT

D) OPEN NETWORK STREAM

TYPE :   UDP://@224.2.2.2:1234   - This playes the first stream

To Use your network switch – set the MULTICAST and IGMP ON on it
network switch MUST BE LAYER 2 OR LAYER 3 TYPE or the streaming will jam the traffic
To Use your WIFI ACCESS POINT – set the MULTICAST and IGMP ON on it
WIFI ACCESS POINTS MUST BE TOP MODELS CAPABLE OF MULTIPLE HD STREAMING – G/N TYPE
FOR MORE DETIALS ON SWITCHES AND WIFI CONFIGURATION PLEASE CONTACT ITS VENDOR
For more configuration of our unit and please visit WWW.PVISUPPORT.COM   and search for IPTV

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Save Configuration

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Saving ...

[Save config]

Restore Configuration

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[Restore]

Factory Set

Set all configuration back to default, after click the "Factory Set" then please click the "Save config" button, otherwise the default parameter will lost after reboot.

[Factory set]

NORTH AMERICAN DIGITAL ATSC OFF AIR TELEVISION CHANNELS / FREQUENCIES

(frequencies in MHz)

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	205
13	213

UHF band

Channel	ATSC FREQUENCY
14	473
15	479
16	485
17	491
18	497
19	503

Channel	ATSC FREQUENCY
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

Channel	ATSC FREQUENCY
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

For additional tech support

Please visit :

www.pvisupport.com

login / search / print the needed guide and manual

Or Send an Email to :

support@provideoinstruments.com

MON-FRI 9AM-5PM EST TIME – USA

Thank you