VeCOAX-PRO4
Multi-Channel FULL HD Digital Video Modulators

Turn Four HD Video Signals into a real digital RF
and broadcast to all of your HD TVs via the antenna coax cable

✓ Quad Channel Full HD HDMI or HD-SDI digital RF Modulator
✓ The Best Full HD Picture quality on the Market – same as the original source
✓ Quad independent HDMI inputs, each creates its own full quality channel on TVs
✓ Logical Channel Numbering for auto-preset assignment on TVs
✓ Available as HDMI, HD-SDI, HD Component, Composite, VGA, DVI, or Mixed
✓ Silent & Cold operation – Installs Anywhere !
✓ Also IPTV output and ASI in Remux + ASI out
✓ Rack Mount & DeskTop kits included
✓ Pro Connectors & Components for Non Stop Operation
✓ 5 years warranty - Breakthrough Price !
Why VeCoax-PRO 4 is the solution?

VeCOAX-PRO 4 is the perfect, final and affordable solution to distribute Quality Full-HD Multi-Video to unlimited standard HD Televisions without requiring any special adapter on each TV nor rewiring with new cables, but using the standard antenna coax cable.

Simple Distribution via the Antenna Cable
Based on the DVB/ATSC Broadcasting technologies, the VeCoax-PRO4 converts FOUR independent HDMI videos and stereo or surround sound into a real digital RF frequency you can inject straight to the existing cable network or broadcast on-air, so any HD TVs connected to the same coax network or within the coverage area will receive it as it would be just another FOUR standard broadcasting programs. Each HDMI input is independent and can operate at the same or different resolution from the others.

True HD Full-Quality on all your HD TVs
VeCOAX-PRO 4 does not compromise with your quality of picture, thanks to its broadcast-grade processors that captures and distribute your Full-HD contents with almost no-delay and no flaws, perfect on Sports, High Motion Video, Text Crawls in Digital Signage, and any other content.

Multiple Programs
VeCOAX –PRO 4 RF output can be set to any VHF or UHF channel, with selectable world-wide standards, coexisting with any other RF and channels already on the same Coax.

Multiple units can be used to broadcast up to the wanted number of HDTV programs through the same Coax Cable to all your TVs.

Connects to any Video Source
VeCOAX-PRO 4 is compatible to any DVI and HDMI video sources. HDMI inputs makes this converter suitable for pro applications where perfectness of HD Picture Quality is most wanted.

Easy Setup and Control
VeCOAX-PRO 4 can be totally controlled via the local Display and Keyboard or via our NMS software, included.
Save on Cables & Adapters

VeCOAX-PRO 4 works sharing the existing antenna coax cables to all of your HD TVs, so there is no need to wire new cables. Moreover, the VeCOAX-PRO 4 can be directly received by any HD TV without the need of any local additional adapter and you’ll be able to switch between regular programs and the VeCOAX ones seamlessly using the standard TV’s remote controls, avoiding multiple Remotes. Where needed, our optional IR Infra-red over coax extender kit allows you to control all the Master room video sources and players from any room, using simple and cost effective industry standard programmable remote controls or tablets.

Home Entertainment
VeCOAX-PRO 4 is the perfect solution to distribute all your HD Video Sources from your Master room to all your TVs in all other rooms, without the need to duplicate the AV equipment to each room. Our IR Infra-Red Extender option allows infrared remote control feedback from any room to the master AV system via the same Coax Cable.

Hotel TV
VeCOAX-PRO 4 is the ideal choice to create unlimited HDTV channels in any Hotel Environment and distribute these to standard HD TVs in every room via the existing Coax Cable. Digital Signage, Info Channels, Meeting channels, and any other video taken from any HD / SD Video source.

Unlimited Applications:
HD entertainment, HD surveillance, Private Homes, Condominiums, Sport Bars, Restaurants, Lounges, Clubs, Discos, Resorts, Hotels, Malls, Convention Centers, Race Tracks, Hospitals, Airports, Theaters, Live Events, Motor Yachts, Cruise Ships, Corporates, Schools, Campus, In Store TV, HDTV Distribution, Info Channels and Digital Signage, Low Delay full HD Monitoring, Coax Broadcasting, and yours...

Key Benefits

☑ 4 Channels in a very Compact & noiseless unit
☑ No Needs to wire new cables as it shares the existing antenna coax cables, easy
☑ Direct reception on any Existing HD TV without the need of any extra adapter
☑ Drives up to 1600 Feet (500+ meters) of existing coax cables without the need to Re-Amplify.
☑ HDMI input for TRUE FULL DIGITAL Full HD picture quality and resolution
☑ Pro Connectors & Components for Non-Stop operations
☑ 5 YEARS of warranty
☑ Expandable with Multiple units chaining
☑ Free World-Class Support
The VeCOAX-PRO 4 is available with different RF output standards for every world-wide country, and is compatible to any HD TUNER TV set. It connects in minutes to your HDMI video sources and the existing Antenna Coax cable distribution system so the created HD programs can be received by any connected HD TV, just rescanning the frequencies, easy.

**5 YEARS of warranty through our World-Class Free Tech Support centers in USA and Europe**

### Video Encoder

**Simultaneous HD Encoding**
- FOUR independent / simultaneous encoders, Full Frame, Full Quality, Full Resolutions.
- Each Encoding channel can be set to the wanted parameters independently from the others

**Video Encoding profiles per each channel**
- Mpeg-4 H.264 AVC
- HD HP@L4 High Profile @ Lever 4.0 1920x1080i, 1280x720p

**Compression Modes per each channel**
- Broadcast-Quality Hierarchical motion estimation
- VBR Statistical Multiplexing
- Also CBR Mode
- 1 Mbps to 20 Mbps
- User defined Program Name, Service Provider, and other PSI information
- User defined PIDs

### Video Input

**Standard Video Input Interfaces**

**HDMI**
- 4X HDMI 1.4 Full HD Input
- 36-bit color depth
- Broadcasting industry standard resolution 1080i / 720P
  (please note most TVs does not support 1080p when receiving from the Antenna HD tuner)
- HDMI Audio Stereo/Surround
- Number of inputs depends by model

**Computer DVI**
- DVI Digital via DVI-HDMI Cable
- Set your PC Resolution to 1080i or 720p
- 59.94 / 50 Frames/Fields
- Audio by using external embedder

### Audio Encoder

**Simultaneous Audio Encoding**
- FOUR independent / simultaneous audio encoders, one per each HDMI input

**Audio Encoding profiles per each channel**
- Mpeg-1 Layer II – All Modes
- AAC-LC AAC-HF (option)
- Surround pass-through

### Audio Input

**Standard Audio Input Interface**

**HDMI**
- HDMI embedded
- Audio Stereo/Surround

### Channels Names & Data

**Programs Names**
- User editable Programs Names
  These are the names that will appear on your TVs

**Network Name**
- User editable Network Name
  This is the name that will appear on your TVs

**Channel numbers**
- User editable Channel Numbers
  These are the destination memory numbers your TVS will try to automatically store these channels to.
  In case of conflicts with other existing programs, most TVS will prompt for conflicts decision (depend solely by the TV model and its software)

### ASI input & Remux

**ASI input**
- 1x ASI Burst/Byte 188/204 Transport Stream Input
- Accepts any MPTS (multi program transport stream) or SPTS (single program transport stream)
- Rates up to 214 Mbit/s

**Remultiplexing**
- Decoding of the Services information from the ASI input
- Ability to * REMUX * selected DVB services (programs) from the ASI input to the ASI/IP/RF outputs, together with the FOUR generated programs from the 4 HDMI inputs.
- Complete management of PIDs, Service provider/s, Service Names, manual or automatic PIDs remapping or pass-through, PCR correction, EMM/ECM cas and DSMCC PIDs and descriptors pass-through, etc.
- Full Remultiplexer features are completely controlled by using our NMS Software (included)

### IPTV Out

**Simultaneous IP Streaming out**
- MPTS IP Streaming out
- Simultaneous to RF out
- Ideal for WiFi and LAN Simulcast
- UDP Multicast with IGMP support
- Compatible with any IP Set Top Box, Video player software VLC, etc.
### Specifications

#### RF Modulator Out

**DVB-T Version** (version T)
- DVB-T Standard DVB ET300744
- Frequency range: 30 to 1000 MHz @ 1 Khz steps
- Channel Bandwidth: 6/7/8 MHz
- RF IN – built-in Mixer
- RF Out Level: Adjustable from -10dBm to -30dBm
- Impedance: 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression
- DVB-T modulations: QPSK, 16QAM, 64QAM
- FFT: 2K / 8K mode
- Guard Intervals: 1/4, 1/8, 1/16, 1/32
- Code Rates: 1/2, 2/3, 3/4, 5/6, 7/8

**DVB-C Version** (version C)
- DVB-C Standard DVB ET300429
- Frequency range: 30 to 1000 MHz @ 1 Khz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable from -10dBm to -30dBm
- Impedance: 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression
- ITU-T J.83 A/C (Europe/Japan)
- 16/32/64/128/256 QAM
- Any MegaSymbol

**CLEAR QAM North American** (version Q)
- ITU-T J.83 Annex B QAM-B
- PSIP descriptors edit and Injection
- Frequency range: 30 to 1000 MHz @ 1 Khz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable from -10dBm to -30dBm
- Impedance: 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression
- 64/256 QAM
- Any MegaSymbol

#### RF Modulator Out

**ATSC 8VSB** (version A)
- North American ATSC 8VSB
- PSIP descriptors edit and Injection
- Frequency range: 30 to 1000 MHz @ 1 Khz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable from -10dBm to -30dBm
- Impedance: 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression
- Out Filter: -70 dB of Harmonic and spurious suppression

**ISDB-T** (version i)
- ISDB-Tb South American
- Frequency range: 30 to 1000 MHz @ 1 Khz steps
- RF IN – built-in Mixer
- RF Out Level: Adjustable from -10dBm to -30dBm
- Impedance: 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression

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#### Rack Mount

**Rack Ears**
- The VeCOAX PRO 4 comes with both feet for desktop application as well the RACK MOUNT EARS to install into any standard 19" rack mount system

**Control**
- Full Local Control/Setup
  - Instant Access to all features from the local Keyboard and Large Display, without the need for a PC.
- Remote Control
  - Via standard Web Browser from any PC, with security Login.

#### Physical and Power

- **Power**: 90 to 240 VAC 50/60 Hz - 28 Watts
- **Cooling**: Noiseless cold operation
- **Max Dimensions**: 490 x 455 x 44.5 millim. (19.2 x 11.9 x 1.75 inches)
- **Weight**: 7 Kilograms (15 lbs)
- **Operating Temperature**: -10°C to 50°C (14°F to 122°F)
- **Relative Operating Humidity**: 10% to 90% (Non-condensing)
- **Compliance**: EN55022, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN55022, CISPR22, EN60950-1, IEC60950-1, UL60950-1, UL60065, FCC Class B
- **Warranty**: 5 Years Registering the product

#### Ordering Information

**VeCOAX-PRO4x-HD-y**
- Quad channels hdmi Desktop / Rack Mount
  - x = RF Output option
  - T for DVB-T RF output
  - C for DVB-C RF output
  - Q for J.83 US Clear QAM RF output
  - I for ISDB-Tb RF output
  - A for ATSC 8VSB RF output
  - y = Add special option list as follows

**Video Options**
- MP2 changes encoding to MPEG2 HD
- AAC adds AAC Stereo compression
- AC3 adds AC3 Stereo compression

**Audio options**
- SDI change 1 input to HD SDI
- DVI changes 1 input to DVI and Audio
- VGA changes 1 input to VGA and Audio
- CVBS changes 1 input to CVBS / Audio
- AV change the input to AV SD mpeg2
- CM change the input to HD/SD YPbPr

Additional inputs can be changed adding multiple options on part number example: vecoax-xp2t-hd-sdi
- this is 1x hdmi + 1x sdi dual channel

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