

VeCOAX-PRO1 - UNIVERSAL

Full HD Video Distribution made EASY



HD-SDI **HDMI™**
HIGH DEFINITION MULTIMEDIA INTERFACE
SD-SDI **YPbPr**
CVBSpro **AES EBU L/R BAL**



IP TV HD



DVB T HD
DVB C HD
QAM HD
ATSC HD
ISDB T HD

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

- ✓ *Professional HD/SD Digital Video RF Modulator / Streamer*
- ✓ *Selectable HD-SD input : HDMI / HD-SDI / Component / CVBS*
- ✓ *Selectable Audio input : Embedded / AES EBU / Analog XLR / Analog LR*
- ✓ *Superb Quality of Picture & Sound – Same as the original*
- ✓ *RF out for DVB-T – DVB-C – US Clear QAM – ATSC - ISDB-T*
- ✓ *Simultaneous IPTV streaming and ASI output*
- ✓ *Fully editable Service Descriptors and LCN*
- ✓ *Rack Mount Ears Kit Included*
- ✓ *Features Rich with Breakthrough Price !*



Enjoy TRUE FULL-HD Quality Everywhere



Why VeCOAX-PRO1-UNI is the solution ?

VeCOAX- PRO1-UNI is the perfect, final and affordable solution to distribute Quality Full-HD 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-PRO1 UNI converts One video and stereo or surround sound selectable between the HD/SD SDI embedded input, HDMI, HD/SD Component, SD Cvbs, AES EBU AUDIO, BAL/UNBAL Audio, 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 will receive it as it would be just another standard broadcast program. All resolutions as SD, 720P / 1080i / 1080p are supported with advanced Digital Video Processing for the highest picture quality

True HD Full-Quality on all your HD TVs

VeCOAX-PRO1 UNI 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.

Connects to any Video Source

VeCOAX-PRO1 UNI is compatible to any Broadcast HD/SD SDI embedded video source well DVI and HDMI

HD-SDI and HDMI inputs makes this converter suitable for pro applications where perfectness of HD Picture Quality is most wanted.

Easy Setup and Control

VeCOAX-PRO 1 UNI can be totally controlled via the local Display and Keyboard or via our PRO NMS software, included

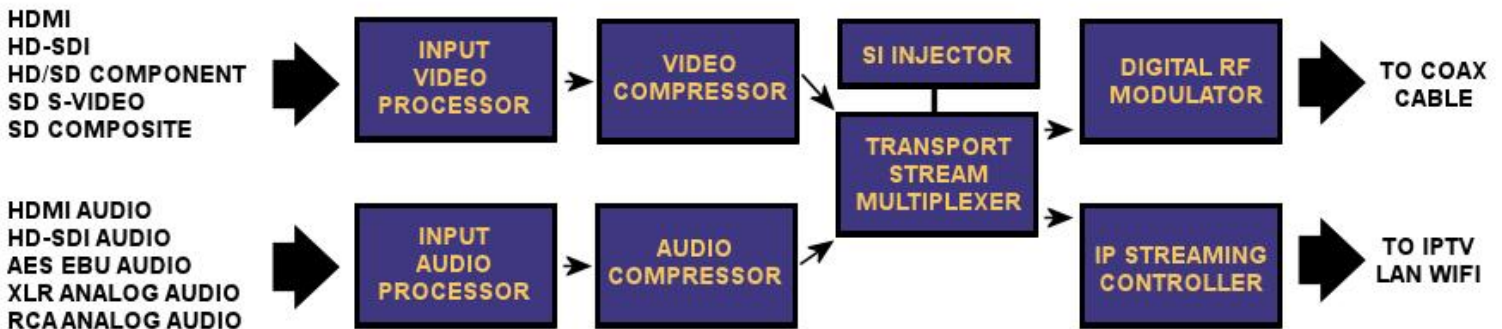
At a Glance

- ✓ **ONE** input selectable HD/SD SDI, HDMI, YPbPr, CVBS
- ✓ 1080p / 1080i / 720 / SD
- ✓ Rack Mount & Desktop
- ✓ Noiseless & Cold operation
- ✓ Pro Connectors & Components for Non-Stop operations
- ✓ Available Versions for DVB-T / DVB-C / US QAM / ATSC / ISDBT RF Output
- ✓ VHF/UHF out with LCN/VCT
- ✓ RF Mix IN / RF Mixed out
- ✓ ASI out
- ✓ Simultaneous IPTV out
- ✓ Services Descriptors editor
- ✓ Control via LCD/Keyboard
- ✓ Also Remote Control NMS
- ✓ Perfect Full-HD Picture quality, same as the original
- ✓ Mix to the existing antenna coax together with other Adjacent TV signals
- ✓ 5 Years of warranty
- ✓ **Breakthrough price and Quality**

Total Quality, Never been so simple



BLOCK DIAGRAM



Save on Cables & Adapters

VeCOAX-PRO 1 UNI 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 1 UNI 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 seamless 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 1 UNI 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 1 UNI 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

- ✓ All-Flavors HD/SD inputs 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.
- ✓ HD-SDI & HDMI inputs 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 daisy-chaining
- ✓ Free premium services world wide through our USA & EU centers

Perfect choice, Affordable & Built To Last



Video Input

HDMI

- 1x HDMI Full HD Input
36-bit color depth
1080p / 1080i / 720P Resolutions
59,94 / 50 Frames/Fields
- HDMI Audio Stereo/Surround

HD-SDI

- 1x HD-SDI Digital Video Input
1080p / 1080i / 720P Full HD
59,94 / 50 Frames/Fields
576i/480i (PAL/NTSC SD)
- Embedded Audio stereo /surround
selectable from any SDI group

Computer DVI

- DVI Digital via DVI-HDMI Cable
- Set your PC Resolution to
1080i or 720p
- 59,94 / 50 Frames/Fields
- Audio Via Analog or AES/EBU

HD/SD Component

- HD/SD Analog input
- 3x BNC 75 Ohm Connectors
- Y-Pb-Pr Components 0 – 0.7V
- 640X480, 720X480, 800X600,
1024X768, 1152X864, 1176X664,
1280X720, 1280X786, 1280X800,
1280X960, 1280X1024, 1360X768,
1440X900, 12680X1050,
1920X1080

Composite CVBS

- SD Analog input
- 1x BNC 75 Ohm Connector
- CVBS 0 – 0.7V
- 576i (Pal), 480i (NTSC)

Audio Input

HDMI

- HDMI Audio Stereo/Surround

HD-SDI

- Embedded Audio stereo /surround
selectable from any SDI audio group

Balanced XLR

- Stereo L/R balanced XLR

Unbalanced XLR

- Stereo L/R unbalanced RCA

Digital AES/EBU

- Digital AES/EBU Stereo /Surround
- SPDIF via RCA to AES/EBU cable

Video Encoder

Video Encoding profiles

- Mpeg-4 H.264 AVC
- HD HP@L4 High Profile @ Lever 4.0
1920x1080p, 1920x1080i, 1280x720p
All levels Main And High Profiles and
levels are supported / selectable
- SD HP@L3 High Profile @ Level 3.0
576x720i, 480x720i
- RF Out follows encoding settings

Compression Modes

- Broadcast-Quality Hierarchical motion
estimation
- VBR Statistical Multiplexing
- Also CBR Mode
- 0.3 Mbps to 20 Mbps
- User defined Program Name, Service
Provider, and other PSI information
- User defined PIDs

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)

Audio Encoder

Audio Encoding profiles

- Mpeg-1 Layer II – All Modes
- AAC-LC AAC-HE (option)
- AC3 Stereo (option)
- Surround pass-through

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

- DVB-T Standard DVB NE300744
- HD Broadcast 1080i /720P
- Frequency range:
VHF 177.5-226.5 MHz
UHF 474 – 858 MHz
- Channel Bandwidth : 7/8 Mhz
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- MER: Professional-Grade >45 dB
- Spectrum Shoulders: 55 dB for perfect 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 + US Clear QAM Version

- DVB-C Standard DVB EN300429
- And North American Clear QAM
- Frequency range:
47 – 862 MHz
(channel 2-141)
- RF IN – built-in Mixer
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression
- 1 to 74990 Ms/s
- - **ITU-T J.83 B (USA)**
- - 64 QAM / 256 QAM
- - **ITU-T J.83 A/C (Europe/Japan)**
- - 16/32/64/128/256 QAM

ATSC 8VSB Version

- North American ATSC 8VSB
- PSIP descriptors edit and Injection
- Frequency range:
47 – 862 MHz
- RF IN – built-in Mixer
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and

RF Modulator Out

ISDB-T Version

- South American ISDB-Tb
- Frequency range:
47 – 862 MHz
- RF IN – built-in Mixer
- RF Out Level: from -30 to -10 dBm
- Impedance : 75 Ohm (50 opt.)
- Spectrum Shoulders: 55 dB for excellent adjacent-channel operations
- Out Filter: -70 dB of Harmonic and spurious suppression

IPTV Out

IP Streaming out

- MPTS IP Streaming out
- Simultaneous to RF out
- Ideal for Wifi and Lan Simulcast
- UDP Multicast with full IGMP support
- Unicast up to 90 Mbit/s of requests.
- Complete config of network param.
- Compatible with any IP Set Top Box, Video player software, VLC, etc.

Control

Full Local Control/Setup

- Instant Access to all fetures from the local Keyboard and Large Display, without the need for a PC.

Pro Remote Control

- The system comes with a full-featured Network Management Software, to control unlimited units from remote PCs via common IP connection and SNMP protocol.

Physical and Power

Power - 90 to 240 VAC 50/60 Hz - 28 Watts

Cooling - Almost Cold and quiet operation
internal fan side to side flow

MTBF - 40,000 Hours 24/7 non-stop

Dimensions 490x455x44.5 millimeters
(19.2 x 17.9 x 1.75 inches)

Weight - 6,5 Kilograms (14,3 lbs)

Operating Temperature

-10°C to 50°C (14°F to 122°F)

Relative Operating Humidity

10% to 90% (Non-condensing)

Mounting - Rack Mount via provided brackets
Desktop via provided Rubber Feet

Compliance

EN55022, EN61000-3-210, EN61000-3-310,
EN55024, CISPR22, EN60950-1, IEC60950-1
UL60950-1, UL60065, FCC Class B
Warranty - 5 Years on components

Ordering Information

VeCOAX-PRO1-UNI-x

Single channel Universal HD modulator

x = Output option

T for DVB-T RF out

C for DVB-C RF out

Q for J.83-B US Clear QAM RF out

I for ISDB-Tb RF out

A for ATSC 8VSB RF out

IP for IPTV only out no modulator

Audio Options

- **AC3** adds AC3 Stereo compression

- **AAC** adds AAC-LC Stereo Compression

