

# VeCOAX-*PRO1-IP*

HD Video over IP Distribution EASY



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



**IP TV** **HD**

## Turn Your HD Video into HD IP Streaming and multicast to all of your IP TV set top box and mobile devices

- ✓ *Professional HD/SD Digital Video Encoder & 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*
- ✓ *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-IP is the solution ?

*VeCOAX-PRO1-IP is the perfect, final and affordable solution to distribute Quality Full-HD or SD Video to unlimited standard IP TV HD set top boxes and IP video players via common LAN and wifi networks.*

### Simple Distribution via the WIFI and LAN

Based on the IPTV technology, the VeCOAX-PRO1-IP converts ONE HD/SD video and stereo or surround sound into a real time IP TV HD Streaming you can inject straight to the WIFI or LAN multicast-enabled networks, so all the connected IP Video players will receive it as it would be just another standard IP TV program. A 720P HD source can also be downscaled to SD in case SD Resolution is wanted for the IP distribution.

### True HD Full-Quality on all your HD TVs

VeCOAX-PRO1-IP 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-PRO1-IP output can be set to any multicast address and port, as well to simultaneous unicast. Multiple VeCOAX-PRO1-IP can be used to achieve the wanted number of distributed programs.

### Connects to any Video Source

VeCOAX-PRO1-IP is compatible to any DVI and HDMI video source

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

### Easy Setup and Control

VeCOAX-PRO1-IP can be totally controlled via the local Display and Keyboard without the need to connect a PC.

Remote Control is also possible via the standard IP LAN network through the included management software.

## At a Glance

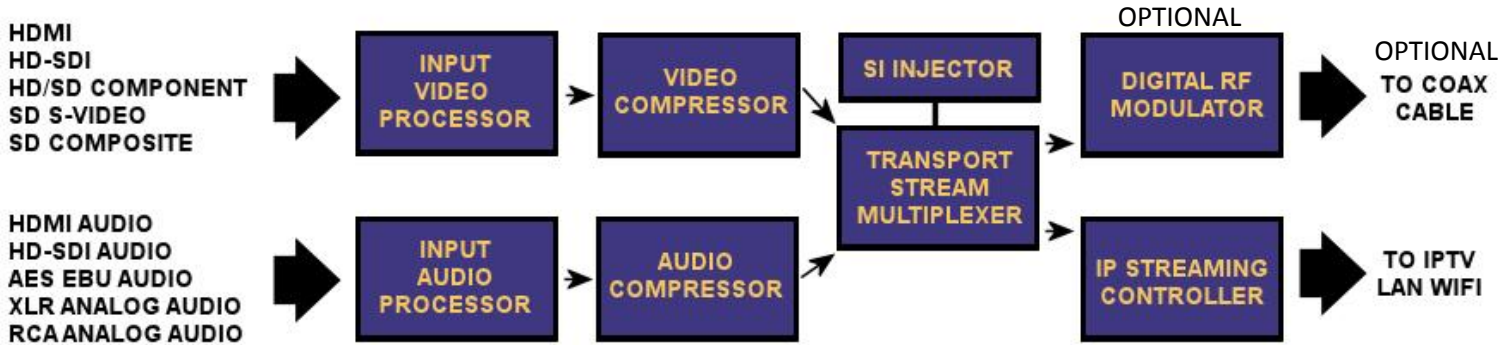
- ✓ **ONE** input selectable HD/SD SDI, HDMI, YPbPr, CVBS
- ✓ 1080p / 1080i / 720 / SD
- ✓ Rack Mount & Desktop
- ✓ Noiseless & Cold operation
- ✓ Pro Connectors & Components for Non-Stop operations
- ✓ Professional IPTV multicast out streaming
- ✓ Simultaneous ASI out
- ✓ Services Descriptors editor
- ✓ Control via LCD/Keyboard
- ✓ Also Remote Control NMS
- ✓ Perfect Full-HD Picture quality, same as the original
- ✓ Works with any network switch
- ✓ 5 Years of warranty
- ✓ **Breakthrough price and Quality**



# Total Quality, Never been so simple



## BLOCK DIAGRAM



## Save on Cables & Adapters

*VeCOAX-PRO1-IP runs on the same cable used for your VOIP ( voice over ip ) Telephone system, Internet access, and data.  
One CAT5 or higher cable only handles all of them and HD TV.*

### Home Entertainment

VeCOAX-PRO1-IP is the perfect HD Video distribution solution for any Home Entertainment system, connecting any Home-Video Master system to all the other TVs in each room without the need to duplicate the AV equipment.

Watch your favorite HD Contents on any Ipad, iPhone, PC, and IPTV Enabled TVs.



### Hotel TV

VeCOAX-PRO1-IP is the ideal choice to create unlimited HDTV channels in any Hotel, connecting source set top boxes and distribute to common IP TVs in every room via the same LAN cable used for VOIP Telephony and Internet Access. Digital Signage, Info Channels, Meeting channels, and any other video taken from any HD / SD Video source.



### Sport Bars & Casinos

VeCOAX-PRO1-IP is the perfect solution for quality distribution to HDTV screens in Sport Bars, Restaurants, Casinos



### And any other..

Campus, Schools, Hospitals, Cruise Liners, Boats, Stages, Airports, Metro, Corporates, 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 Network
- ✓ Direct reception on any Existing IP HD TV without and set top box or Player software
- ✓ 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



# Compatible to Everything



## Video Input

### HDMI

- 1x HDMI 1.3 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 res  
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
- VGA/XGA/SXGA/WSXGA/UXGA
- 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 )

### S-Video Y/C

- SD Analog input
- 1x 4-PIN DIN Connector
- 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
- All other levels up to 4.2 are supported
- 1920x1080p, 1920x1080i, 1280x720p
- SD HP@L3 High Profile @ Level 3.0  
576x720i, 480x720i
- RF Out follows encoding settings
- 720P can be scaled to SD

### Compression Modes

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

## Audio Encoder

### Audio Encoding profiles

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

## RF Modulator Out - OPTION

This unit is available with DVB-T or DVB-C  
simultaneous RF output to the IPTV.  
Please check the VeCOAX versions  
brochures.

## IPTV Out

### IP Streaming out

- IP Streaming 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 and detailed configuration  
of network parameters
- 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 - 26 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-IP



ProVideoInstruments [www.provideoinstruments.com](http://www.provideoinstruments.com) [info@provideoinstruments.com](mailto:info@provideoinstruments.com)