

# VeCOAX-7

Full HD Video Distribution made EASY



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

- ✓ *HD SDI – HDMI – Component – CVBS – SVIDEO - Analog & Digital Audio*
- ✓ *DVB-T output for Antenna Coax distribution*
- ✓ *IPTV streaming output*
- ✓ *Full Local control via Display & Keyboard*
- ✓ *Also remote control via PC*
- ✓ *Features Rich with Breakthrough Price !*



# Enjoy TRUE FULL-HD Quality Everywhere



The VeCOAX-T1 : converts your HDMI HD Video into DVB-T for broadcast over coax to unlimited standard HD TVs

## Why VeCoax-T1 is the solution ?

*VeCOAX 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-T Broadcasting technology, the VeCoax-T1 converts your HDMI, DVI, Component, SDI HD/SD video and stereo or surround sound into a real DVBT digital terrestrial frequency you can inject straight to the local antenna wall-mount socket, so all the TVs connected to the same coax cable will receive it as it would be just another standard DVB-T HD program.

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

VeCOAX-T1 does not compromise with your quality of picture, thanks to its broadcast-grade processor 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-T1 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-T1 comes with choice of selectable Video and Audio inputs, compatible to any BluRay Disk Player, DVD Player, Satellite and Cable HDTV set top box, DVI and HDMI computer output, USB Media Player, HD CCTV camera system, Home & Building Automations, and any other device with HD or SD digital or analog Audio/Video Outputs.

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

### Easy Setup and Control

VeCOAX-T1 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 Balance

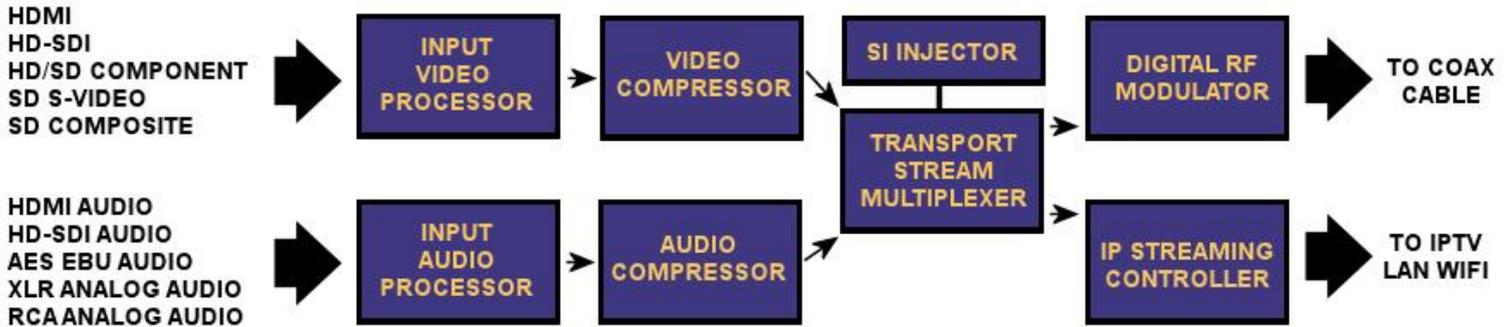
- ✓ HDMI Full-HD Input
- ✓ DVB-T RF Output
- ✓ Also IPTV Output
- ✓ Control via LCD/Keyboard
- ✓ Also Remote Control via PC
- ✓ Desktop & Rack-Mount
- ✓ Cool & Silent operation
- ✓ Professional Connectors
- ✓ Perfect and Clean picture on High Motion Video, Sport, Text Crawls, etc.
- ✓ VHF/UHF world-standards compatible
- ✓ Multiple Channels on the same Coax
- ✓ Infrared Remote Control Repeater ( option )



# Total Quality, Never been so simple



## BLOCK DIAGRAM



## Save on Cables & Adapters

*VeCOAX-T1 does not need any additional set top box, nor adapters, extra cables and power supplies on each TV in every room, since it distributes your Full HD Video via the common antenna cable. You'll be able to switch between your new HD channels and any other standard received channel just using the original TV remote control. Each room – just the TV – Clean, Easy, HD.*

### Home Entertainment

VeCOAX-T1 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. The IR option allows infrared remote control feedback from any room to the master AV system via the same Coax Cable.



### Hotel TV

VeCOAX-T1 is the ideal choice to create unlimited HDTV channels in any Hotel and distribute to common TVs in every room via the Coax Cable. Digital Signage, Info Channels, Meeting channels, and any other video taken from any HD / SD Video source.



### Sport Bars & Casinos

VeCOAX-T1 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..

## Benefits

- ✓ No Needs for any new cable Works on the existing antenna coax cable to all your TVs in every Room
- ✓ Save on adapters on each TV since it does not need anything but the TV.
- ✓ Add as Many TVs you need by just connecting it to the antenna coax cable.
- ✓ HDMI input provides the ultimate Deep Colors HD Quality and far better overall picture definition than Component.
- ✓ Use more units to inject multiple HD Video to the coax cable, also from different rooms/injection points
- ✓ Use the original TV remote control – no need for any additional remote control

# Compatible to Everything



## Video Input

### HDMI

- 1x HDMI 1.3 Full HD Input  
36-bit color depth  
1080i / 720P Resolutions  
59,94 / 50 Frames/Fields
- HDMI Audio Stereo/Surround

### HD-SDI

- 1x HD-SDI Digital Video Input  
1080i / 720P Full HD resolutions  
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  
1920x1080i, 1280x720p
- 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
- Programmable Low Delay  
100 -400 msec
- 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

### Modulation Standard

- DVB-T Standard DVB ET300429
- HD Broadcast 1080i /720P
- SD Broadcast 576i / 480i
- Frequency range:  
VHF 177.5-226.5 MHz  
UHF 474 – 858 MHz
- Channel Bandwidth : 7/8 Mhz
- RF Out Level: Adjustable  
from 91dBuV to 61dBuV
- 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
- 2x ASI Monitoring Outputs

## 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 - 1 Year Standard / 3 yrs Extended

## Ordering Information

**VeCOAX-T1 rackmount**

**VeCOAX-T1DT desktop**



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