VeCOAX-PRO4 SD

SD Multi-Video Distribution made EASY

VeCOAX PRO-4 DIGITAL HIGH DEFINITION VIDEO RF MODULATOR

VeCOAX HD Modulator
CH1:SPORT CH2:MOVIES CH3:SECURITY CH4:SAT

STATUS MONITOR
CH1 CH2 CH3 CH4 PWR
ALM ALM ALM ALM EXT

CONTROL PAD
NAV
ENTER ESCAPE MENU SYS LCK

HD

Pro Video Instruments

SDTV STANDARD DEFINITION TELEVISION

MPEG2

IPTV

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

5 YEAR WARRANTY
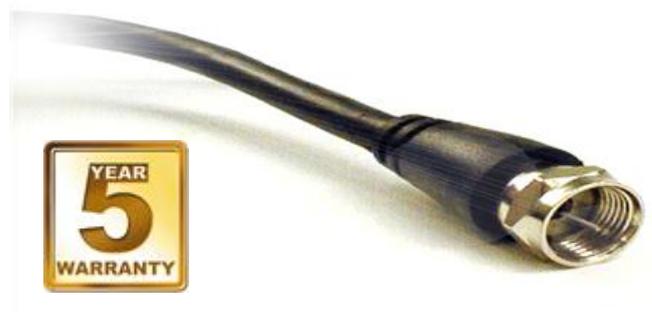
Turn Four Videos into a real digital RF

and broadcast to all of your DVB-T TVs via the antenna coax cable

- ✓ VECOAX-PRO4 SD with 4X CVBS Audio/Video inputs

- ✓ Quad independent HD channels operation

- ✓ Professional 14 Bits input with 4:4:4 processing for Extreme Picture Quality

- ✓ Rack-Mount & Desktop kits included - Noiseless

- ✓ Quality RF out for DVB-T – DVB-C – US Clear QAM – ATSC - ISDB-T

- ✓ Also IPTV output and ASI in Remux + ASI out

- ✓ Pro Connectors & Components for Non Stop Operation

- ✓ Free World-Class tech support and customer services

- ✓ Lowest Cost per channel - Breakthrough Price !

PVI
PRO VIDEO INSTRUMENTS

Your SD Signals Anywhere – Simple & Easy

The VeCOAX PRO4SD : converts <u>FOUR</u> CVBS SD Videos to a Digital RF Channel to distribute to TVs via the antenna cable

Why VeCoax-PRO4SD is the Right Choice ?

VeCOAX-PRO4SD is the perfect, final and affordable solution to distribute FULL QUALITY Multi-Video to unlimited standard digital 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 Digital Broadcasting technology, the VeCoax-PRO4SD converts FOUR independent CVBS SD videos and stereo or surround sound into a real Digital TV Channel you can inject straight to the local antenna wall-mount socket, so all the TVs connected to the same coax cables will receive it as it would be just another FOUR standard digital TV programs. Each Video input is independent and can operate 16:9 or 4:3.

PROFESSIONAL VIDEO QUALITY on all your HD TVs
VeCOAX-PRO4SD does not compromise with your quality of picture, thanks to its broadcast-grade VIDEO Pre-Processors, Noise Reduction, Time Base Correctors and Triple Pass Encoding processors that captures and distribute your SD 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-pro4SD 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 TV programs through the same Coax Cable to all your TVs.

Connects to any Video Source
VeCOAX-PRO4SD is compatible to any BluRay Disk Player, DVD Player, Satellite and Cable set top box, computer Video outputs, USB Media Player, CCTV camera system, Home & Building Automations, and any other device with SD Audio/Video Outputs.
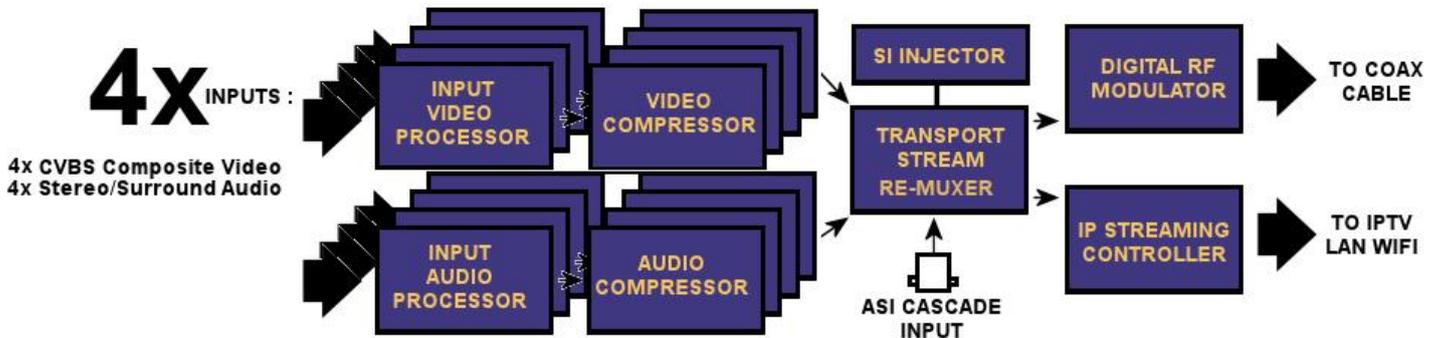
Easy Setup and Control
VeCOAX-PRO4SD can be totally controlled via the local Display and Keyboard without the need to connect a PC.
Remote Control is also possible via the standard IP LAN network through the included management software.

At a Glance

- ✓ <u>FOUR</u> CVBS Video inputs
- ✓ 14 Bits TOP Video Quality
- ✓ 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 in / out with remux
- ✓ Simultaneous IPTV out
- ✓ Services Descriptors editor
- ✓ Control via LCD/Keyboard
- ✓ Also Remote Control NMS
- ✓ Perfect Picture quality
- ✓ Mix to the existing antenna coax together with other Adjacent TV signals
- ✓ 5 Years of warranty
- ✓ Best price & Quality

Perfect Integration & Compatibility

BLOCK DIAGRAM

4x INPUTS :
4x CVBS Composite Video
4x Stereo/Surround Audio

INPUT VIDEO PROCESSOR → VIDEO COMPRESSOR → SI INJECTOR → DIGITAL RF MODULATOR → TO COAX CABLE

INPUT AUDIO PROCESSOR → AUDIO COMPRESSOR → TRANSPORT STREAM RE-MUXER → IP STREAMING CONTROLLER → TO IPTV LAN WIFI

ASI CASCADE INPUT

Save on Cables & Adapters

VeCOAX-PRO4SD works sharing the existing antenna coax cables to all of your TVs, so there is no need to wire new cables. Moreover, the VeCOAX-PRO4SD can be directly received by any TV without the need of any additional local 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-PRO4SD is the perfect solution to distribute all your SD 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-PRO4SD is the ideal choice to create unlimited TV channels in any Hotel Environment and distribute these to standard 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 TOP Video Quality 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 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.**

- ✓ **14 BITS CVBS Video Inputs and 4:4:4 DNR Processing for Extreme quality of picture and full digital resolution**

- ✓ **Pro Connectors & Components for Non-Stop operations**

- ✓ **5 YEARS of warranty**

- ✓ **Expandable with Multiple units chaining**

- ✓ **Free On-Line World-Class Support to Assist you if and when you need from our American And European Centers / Time Zones**

Perfect choice, Affordable & Built To Last

The VeCOAX-PRO4SD is available with different RF output standards for every world-wide country, and is compatible to any Digital TV set. It connects in minutes to your video sources and the existing Antenna Coax cable distribution system so the created TV programs can be received by any connected TV, just rescanning the frequencies, easy.

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

Video Input

Composite CVBS
- 4x SD CVBS Analog Video inputs
- 4x BNC 75 Ohm Connector
- CVBS 0 – 0.7V
- 576i (Pal), 480i (NTSC)
- 4x BNC to RCA professional Adapter Cables Included

Audio Inputs

Unbalanced
- 4x Stereo L/R unbalanced
- 4x BNC to RCA professional Adapter Cables Included

Video Encoder

Simultaneous SD 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-2 SD MP@ML
- PAL 720x576i, 704x576, 640x576 320x288, 176x288, 176x144
- NTSC 720x480, 544x480, 352x480 320x240, 176x240, 176x120
- RF Out follows the sum of the encoding settings

Compression Modes per each channel
- Broadcast-Quality Hierarchical motion estimation
- VBR Statistical Multiplexing
- Also CBR Mode
- 1 Mbps to 20 Mbps

Audio Encoder

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

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 New programs from the 4 CVBS in.
- 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)

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)

IPTV Out

Simultaneous 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.

ProVideoInstruments - www.provideoinstruments.com info@provideoinstruments.com

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.)
- MER: Professional-Grade >47 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 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 Mega Symbols

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

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 fetures 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 490×455×44.5 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, EN61000-3-210, EN61000-3-310,
EN55024, CISPR22, EN60950-1, IEC60950-1
UL60950-1, UL60065, FCC Class B
Warranty - 5 Years Registering the product

PRO VIDEO INSTRUMENTS

Ordering Information

VeCOAX-PRO4x-SD – Quad Channels AV Digital Modulator

OUTPUT TV STANDARD
change the above **x** letter with one of the following RF 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

VeCOAX PRO4-SD
Rack Mount Ears are included
as well Desktop Feet

Have a question? Please contact us at

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