



# An Independent and Dynamic Leader in IP Video Technology

DVEO is a well-established technology company since 2001, with its core team based in San Diego, California, augmented by three dynamic development teams in Florida, India, and the Netherlands. Operating without depending on venture funding or bank loans, and profitable from the outset, DVEO is able to direct its resources without concern for external investors. This has led to an uncompromising focus on providing the most advanced and yet affordable products for its global customer base.

DVEO's vision is to offer innovative digital video and telco TV encoding/transcoding and streaming solutions for IPTV, OTT, and broadcast applications that anticipate the evolving needs of progressive operators and equipment vendors globally.

Our mission is to enable deployment of high-quality and easy-to-use, yet affordable, solutions that enhance our clients' profits and success by reducing CAPEX and OPEX. Since its launch DVEO has focused on fostering longterm relationships, and this client-first attitude has positioned us as a trusted solutions provider for customers of all types.

Today, DVEO provides software-based encoders/transcoders, media servers, and ad insertion solutions, together with patent-pending and award-winning IP gateway technology ensuring error-free real-time video delivery over UDP. All solutions are built on Linux OS and Intel-based platforms to ensure 24x7 reliability, and feature DVEO-developed software for maximum flexibility, upgradability and cost effectiveness.

The DVEO solutions are enhanced by valuable pre-sales consultancy, outstanding post-sales support, and—not least—unusual affordability.

## HIGH-PERFORMANCE REAL-TIME ENCODING, TRANSCODING AND STREAMING

Until recently, broadcasters and enterprises have had to make significant investments in fragmented systems for high-performance real-time encoding, transcoding, and multi-protocol streaming. Now, all of that has changed.

The **DVEO Encoder Transcoder Family** is an affordable way to perform real-time encoding and transcoding, and to deliver the highest-quality live and on-demand IPTV and OTT services by supporting all common adaptive bitrate (ABR) streaming protocols and resolutions.

The **DVEO Atlas Media Server Family** delivers live and on-demand multi-bitrate IPTV and OTT services. Offered turnkey with pre-configured hardware, software and DVCare™ customer support, these CAPEX friendly servers shorten time-to-market with reduced project risk compared to build-it-yourself software alternatives.

Moreover, DVEO's award-winning and patent-pending DOZER technology, featuring **automated UDP packet recovery algorithms**, guarantees error-free UDP video transport over any type of IP network including the public Internet.

Utilizing the product line's advanced capabilities enhanced by pre-integrated content security and digital rights management (DRM), and field-proven compatibility with major

CDNs, organizations can respond with confidence to a constantly evolving media landscape while containing both CAPEX and OPEX.

### Applications

- ✓ Real-time encoding and transcoding to multiple bitrates, resolutions and ABR protocols
- ✓ Live and on-demand streaming for IPTV and OTT delivery over managed and unmanaged networks
- ✓ Ideal for multi-screen content delivery, network PVR, go-back TV, catch-up TV, and more
- ✓ Streaming of live video from remote sites to CDNs including repurposing of SDI and HD-SDI video feeds
- ✓ Build low-cost, high-quality video CDNs utilizing the public Internet enhanced by automated packet recovery

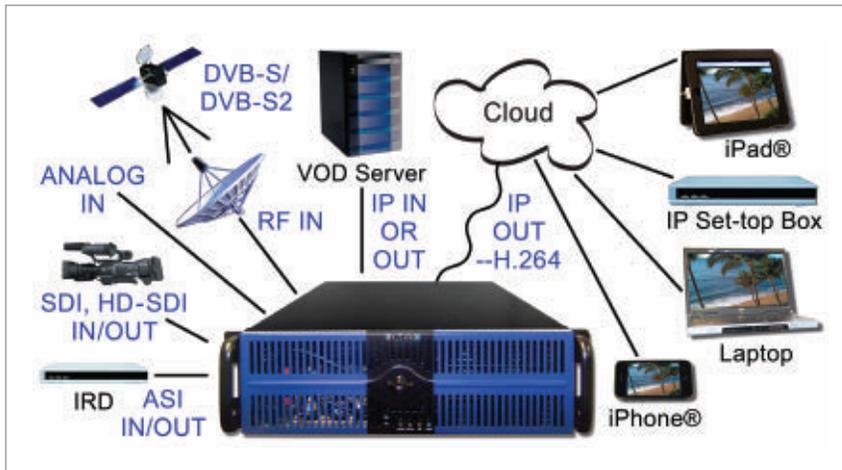
### Features

#### LINUX OS – RELIABILITY 24X7

Linux is universally acknowledged as the most reliable and efficient OS for mission-critical applications. It is also extremely cost effective.

#### MULTI-NETWORK CONTENT DISTRIBUTION ARCHITECTURE

Efficiently deliver live and on-demand media via multicasting and unicasting, featuring multi-protocol and multi-wrapper IP output (UDP, RTP, and multiple HTTP protocols), live grooming, and DVEO's award winning DOZER Automated Packet Recovery technology. Support for input formats such as SDI, HD-SDI, HDMI, GigE and 10 GigE, and all major audio formats.



### SCALABLE REAL-TIME ENCODING AND TRANSCODING

Encode large numbers of HD and SD channels at various quality levels from a single, Linux-based appliance. Support for variable bitrate encoding maximizes ABR video quality and bandwidth efficiency using protocols such as HTTP Live Streaming (HLS), MPEG-DASH, and Microsoft® Smooth Streaming.

### REMOTE GUI AND MANAGEMENT

Control encoders and transcoders from anywhere via the Remote GUI, including control of scheduling, and through standards-based APIs: SNMP, REST, and SOAP.

### CONTENT SECURITY AND DRM

Integrated with industry leading content security, including Verimatrix® VCAS™ and Microsoft PlayReady. Support for AES-128 encryption as well as Simulcrypt (ECMG).

### MEDIA DISTRIBUTION ECOSYSTEM

Connect to any streaming architecture and network types while accommodating diverse sets of live ingest and on-demand content. Deliver multi-screen services to smart TVs, IP-STBs/DVRs, iOS and Android smart phones and tablets, PCs, Macs, and video game consoles.

Tested with leading CDNs and video streaming service providers, such as Akamai (incl. Octoshape), Limelight, Ustream, Verizon (incl. Edgecast), etc., and compatible with IP receivers from suppliers such as Amino, Roku, Dune

HD, etc. Pair with DVEO's Atlas Media Server and third-party servers such as Wowza and Adobe Flash Servers.

## ENCODERS, TRANSCODERS, STREAMERS AND MEDIA SERVERS

### MULTISTREAMER™

- ✓ SD/HD H.264 AVC encoding and stream replication appliance (1 RU)
- ✓ GigE, SDI, HD-SDI, or HDMI inputs; HLS or RTMP out
- ✓ OTT streaming support for 500+ simultaneous HLS users

### GEARBOX™

- ✓ Broadcast quality, multi-channel transcoder, .1-15 Mbps (3 RU)
- ✓ RF, SDI, HD-SDI in, IP out; SD/HD MPEG-2, H.264 in/out

### BRUTUS™

- ✓ Enterprise class, 160 Ch. Adaptive Optimized Transcoder and re-streamer for OTT, mobile and Telco TV multiscreen services (1 RU)
- ✓ Ideal for IPTV/OTT/ISP/CDN multi-bitrate stream replication
- ✓ Flash, HLS, RTMP, HTTP, Smooth, and Live output streaming
- ✓ Available in several blade configurations and capacities.

### D-STREAMER IP/DIG™ – IP RECEIVER/DECODER

- ✓ The perfect complement to the DVEO IPTV Encoders and Transcoders
- ✓ H.264/MPEG-4 AVC or MPEG-2 decoding, SD and HD, all resolutions

**DVEO**  
Digital Video ExtraOrdinaire™

- ✓ Input: Bursty or smooth IP; multicast or unicast, UDP, RTP, RTSP, RTMP, and all ABR protocols
- ✓ Outputs SDI, HD-SDI or, optionally, HDMI; single channel and multi-channel models (1-12 Ch.; 1 and 3 RU)
- ✓ Configure/operate via remote GUI together with SNMP/REST/SOAP mgmt.

### ATLAS MEDIA SERVER™

- ✓ Powerful IP Video Distribution Server (1 and 3 RU models)
- ✓ Ingests MPEG-2, H.264, H.265/HEVC live streams over IP
- ✓ Multi-channel live grooming for Live and VOD applications by adding wrappers: HLS, MPEG-DASH, etc.
- ✓ Three sizes and capacities that can serve up to 8,000 users simultaneously
- ✓ Ideal for IPTV/OTT operators, hospitality, closed circuit apps, and building low-cost CDNs

### DOZER IP/IP™ –

#### PERFECT VIDEO DELIVERY OVER UDP

- ✓ Ensures error-free real-time video transmission over UDP, unicast or multicast
- ✓ Features DVEO award winning and patent pending automated packet recovery algorithms
- ✓ Recovers lost packets and re-orders out-of-sequence packets
- ✓ Integrated in DVEO's encoders/transcoders and receivers; SW license available for third-parties

## CONTACT US

Call +1 858 613-1818 or visit  
[www.dveo.com](http://www.dveo.com)

### ABOUT DVEO

DVEO® is a strong supplier to Telco TV, cable TV, and OTT operators around the world. We provide software-based encoders, decoders, transcoders, ad insertion solutions, Live/VOD Media Servers, Playout Servers, H.265 encoders, and packet recovery technology. Our affordable (\$1,995) turnkey appliance, Atlas Streaming Server™ I, streams live events to 1,000 simultaneous users.