

IPTV Controller™

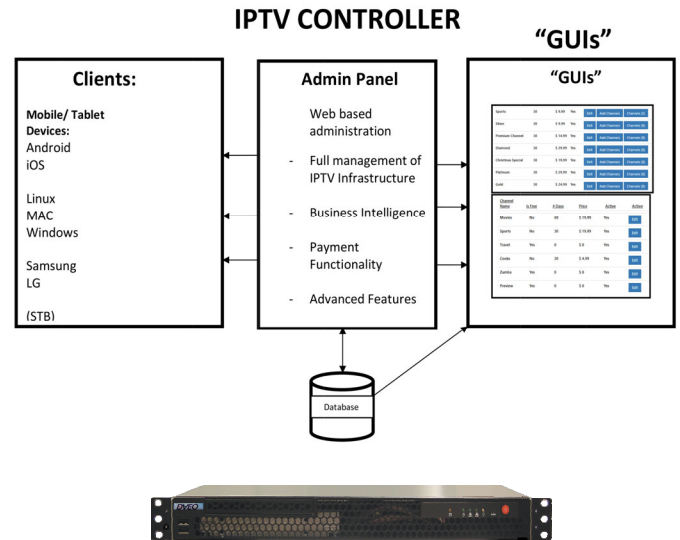
zXORA™/JW Player™/THEOplayer™ + VAST
On Premises or Cloud Based IPTV oriented video
player management workstation. Designed to feed video
and manage your zXORA™ or third party video players
like THEOplayer™, X Player™, or JW Player™. This
workstation is designed to both manage your player
parameters such as Access Control, EPG, Network,
Video Quality, Notifications, Device Types, DRM, and
feed your player with the appropriate URLs for content.

Target Features (Not all present)

- Event listener
- Player configuration
- Configure advertising
- Configure DRM
- Configure network
- Configure video quality
- Configure notifications
- Configure options
- Manage VAST scripts
- Configure VOD and Catchup
- Configure EPG
- Configure ad insertion modes and modalities
- Personalization
- Self serve tools
- CDN and ISP support
- Audience analytics capture
- Thumbnails
- Access control
- Video security
- Geofencing: Restrict playout to geographic area

Applications

- Manage and control all your video playout to video players
- Configure video security, notifications, and more
- Capture audience data and analytics



VAST 3.0



Overview

IPTV is taking over as the preferred in-house communication and learning methodology for schools, stadiums, universities, cruise ships, corporations, and MDU (Multiple Dwelling Unit) operators. Previously these organizations relied on in-house cable, or individual VCR or DVD players to disseminate video to their clients. IPTV has become affordable and convenient since one can watch the videos at will.

The IPTV Controller plays a key part of any IPTV platform. It is the manager for everything that happens on the IPTV platform. It manages the functions of the player, establishes security authentication, and manages ad insertion functionality. For extra measure it collects permitted information about each user's watching times and habits. This data provides great value as a means of targeted advertising.

The IPTV Controller is also available as an OEM product to those who wish to use their own encoders and servers or build their own IPTV or OTT platforms.



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Inputs/Outputs – Standard System



LAN WAN
(Either can be used for IP Input or Output)

Inputs/Outputs – Compact System

GigE Port 2



GigE Port 1
(for IP Input or Output)

Sample of GUIs

Channel Management

Channel Name	Is Free	# Days	Price	Active	Action
Movies	No	60	\$ 19.99	Yes	Edit
Sports	No	30	\$ 19.99	Yes	Edit
Travel	Yes	0	\$ 0	Yes	Edit
Cooks	No	30	\$ 4.99	Yes	Edit
Zumba	Yes	0	\$ 0	Yes	Edit
Preview	Yes	0	\$ 0	Yes	Edit

- Add new channels or modify old ones
- Edit channel specifications
- Edit rights for users and make them active or inactive

Package Management

Sports	30	\$ 9.99	Yes	Edit	Add Channels	Channels (2)
Silver	30	\$ 9.99	Yes	Edit	Add Channels	Channels (0)
Premium Channel	30	\$ 14.99	Yes	Edit	Add Channels	Channels (0)
Diamond	30	\$ 29.99	Yes	Edit	Add Channels	Channels (0)
Christmas Special	30	\$ 19.99	Yes	Edit	Add Channels	Channels (0)
Platinum	30	\$ 29.99	Yes	Edit	Add Channels	Channels (0)
Gold	30	\$ 24.99	Yes	Edit	Add Channels	Channels (0)

- Create new packages or modify the details of old ones and make them active or inactive
- Add/delete channels for particular packages

User Management

Student List	Package Name	Subscribed On	Username
User 1	Silver	18/08/17	user1@dveo.com
User 2	Silver	18/11/17	user2@dveo.com
User 3	Gold	11/11/17	user3@dveo.com
User 4	Diamond	28/01/18	user4@dveo.com
User 5	Premium	18/08/17	user5@dveo.com
User 6	Sports	28/08/17	user6@dveo.com
User 7	Silver	21/12/17	user7@dveo.com
User 8	Platinum	28/08/17	user8@dveo.com
User 9	Gold	01/11/17	user9@dveo.com

- View details about how many users have subscribed for channels under which package

Ordering Information

IPTV Controller: zXORA
IPTV Controller: THEOplayer
IPTV Controller: JW Player

CDNs Tested With:

- | | | | |
|--------------|---------------|--------------|-------------------|
| 1. Akamai* | 4. Octoshape | 7. Highwinds | 10. Mirror Image |
| 2. Limelight | 5. CDNetworks | 8. Verizon* | 11. Tulix* |
| 3. Tata | 6. Internap | 9. Ustream* | 12. More to come! |
- *Certified

Specifications

Supported Resolutions – Input and Output

1920 x 1080	720 x 480	480 x 480	qHD
1280 x 720	704 x 480	480 x 320	H.264up
720 x 576	640 x 480	320 x 240	

Also supports any custom resolution not listed here. Note: Supports closed captions. H.265 output resolutions supported are 1080, 720, 576, 480. H.265 576/480 resolutions only have 4:3 aspect ratio.

IP Input

IP Input protocols, “wrappers”:	UDP, RTP, RTSP, HTTP, HTTP Live (HLS), RTMP (pushed from Flash server). Supports NewTek™ NDI® input.
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IP Output

Outputs:	One 1080i/p stream at 6 Mbps; or one 720p60 HD stream at 4 Mbps; or 3 480 streams at 2 Mbps, or one HD and one SD stream at 6 Mbps
Audio Output:	AAC, MPEG-1 Layer II, optional MP3, and/or optional “SurCode for Dolby Digital” AC-3
Output “wrappers”:	UDP, RTP, HTTP, HTTP Live (HLS), RTMP (Open Flash)
Type:	IP-multicast, IP-unicast with “wrappers”
Bit Rates:	Multiple H.264 video streams at different bit rates (.1 to 15 mbps), resolutions, and protocols, wrappers, and containers Optional H.265: H.265 average bit rate supported. No constant or variable.
Quality:	8 bit encoding with 4:2:0 color sampling
Video:	NTSC or PAL
Encoding Latency:	1.2 seconds (fixed)

Administration

Access:	Web interface, SSH (Secure command line interface)
SNMP:	Monitoring and alerts
Scheduling:	On, Off support for timeslots

Security

Ports security scanned to MIL requirements prior to shipment
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CPU and Operating System – 1 RU

CPU:	Intel® Xeon® processor
OS:	DVEO embedded Linux® on SSD
Hard Drive:	1 TB (Option)

Physical & Power – 1 RU

Size – 1 RU high (W x D x H):	19 x 14.96 x 1.7 inches (483 x 380 x 43.4 mm)
Voltage:	100-240V, 4-2A, 60-50 Hz, 220 watts
Operating Temperature:	10°C to 35°C
Non-operating Humidity:	20% to 90% non-condensing
Weight:	15 lbs. (6.8 kg)

Conformities:	UL, BSMI, CSA, FCC, CE, RoHS      
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CPU and Operating System – Compact System

CPU:	Intel® Core i3
OS:	DVEO embedded Linux® on SSD
Hard Drive:	8 GB RAM
Memory:	120 GB SSD Intel

Physical & Power – Compact System

Size (W x D x H) and Weight:	7.5 x 6.5 x 1.7 inches (190 x 165 x 43 mm); 3 lbs. (1.36 kg)
Power:	External 90W fanless power adapter Input: 100-240V AC, 50/60 Hz; Output: 19V DC, 4.74A
Power Consumption:	Maximum 90 watts
Operating Temperature:	0°C to 50°C

Processor Cooling:	Heat pipe processor cooling with 2 60 mm fans on upper side of chassis
Relative Humidity:	10% to 90% non-condensing
Conformities:	UL, BSMI, FCC, CE, RoHS, C-Tick, CB, ETL 