

# EZ TV IPTV System

## Digital Video Delivery Solution for Enterprise Networks



### EZ TV IPTV System is an advanced solution that empowers organizations to deliver live, on-demand and recorded video over their IP networks

Optibase EZ TV allows military units, government agencies, enterprises, and educational institutions to deliver real-time and recorded video over their LANs and WANs. Using EZ TV Web Portal, administrators can create and manage video assets and distribute them effectively across the network. EZ TV System user groups and access privileges can be easily defined based on existing Microsoft Active Directory groups.

The browser-based EZ TV Player uses the most flexible digital video codec to offer CPU-efficient high quality playback of IPTV streams. With powerful features such as user-selected mosaic views of 1, 2, 4, 9 or 16 concurrent video feeds, de-interlacing engine for smooth viewing of high motion content, closed captioning and support for multiple audio tracks, EZ TV Player packs professional grade decoding capabilities in thin client architecture. EZ TV Player supports low latency smooth playback, powered by TurboVideo™ technology. Its decryption engine enables secure delivery of Optibase MGW-encrypted streams with AES-256/128-bit encryption.

With the EZ TV VOD/NDVR Server, administrators can easily upload pre-recorded content for on-demand playback by users. Live channels can be recorded automatically at scheduled times or archived continuously and accessed by users at any time. In addition, authorized users may record channels for their own private use. The advanced recording engine automatically detects and tags duplicate requests to record content, optimizing storage space and eliminating data redundancy.

For conference rooms and executive offices, EZ TV STB Module integrates commercial IP set-top-boxes into the EZ TV ecosystem, allowing users to view content on their HD or SD TV monitors. A powerful middleware graphical interface makes it easy to view live and on-demand content.

#### Benefits

- The most deployed H.264 enterprise IPTV delivery system in the world.
- VeriSign secured and DOD verified browser plug-in for seamless deployment.
- Format-agnostic IPTV delivery platform seamlessly handles locally produced, off-air, and on-demand video content for play on PCs and TV monitors.
- Virtualization and High Availability ready. Deployable in virtual IT environments.
- Intuitive player interface makes selection of desired content and combinations simple.
- Single interface for managing, provisioning and monitoring all IPTV services.

#### Applications

- Tactical and Situational Awareness
- Corporate Communication
- Video Monitoring and Video Confidence
- Training and Education
- TV over IP

## Key Features

- Supports HD and SD live and on-demand streams in MPEG-1/2/4 and H.264 formats
- Advanced channel guide with grouping and access control, integrated with Microsoft Active Directory
- Mosaic viewer for 2, 4, 9 or 16 concurrent videos
- Browser-based player with seamless installation
- Web-based administrative interface
- Advanced VOD Trick-Play services including VOD pause, resume and skip ahead/back
- VOD files and recorded content is available to use immediately after copied to storage
- NDVR functionality allows recording of live channels for delayed playback
- Emergency broadcast system remotely tunes all clients to operator-specified channel
- Seamless integration of TV monitors and IP STBs, including automatic channel guide synchronization
- Customizable user interface
- CPU Meter offers complete control of client machine resources used by the IPTV application
- Secure HTTP Interface for management
- SAP Listener offers dynamic detection of Optibase and third-party streams for aggregated playback
- Supports Closed Captions overlay for MPEG-2 and H.264 streams

## System Components

- **EZ TV Portal** - Powerful browser-based administration interface with full control over all aspects of the EZ TV IPTV system.
- **EZ TV Player** - Browser-based client with the ability to play live and on-demand content using a multi-window mosaic view with 1, 4, 9 or 16 concurrent streams.
- **EZ TV Player Lite** - A compact and streamlined version of the powerful EZ TV Player with a single-channel floating window that is fully resizable and can be positioned anywhere on the screen. Also available as a gadget for Win7/Vista OS.
- **EZ TV VOD** - Add-on module, adds the ability to store, distribute and publish offline video assets. Enables on-demand access as well as scheduled streaming and recording in the EZ TV IPTV system.
- **EZ TV STB Module** - Add-on module that adds a graphical interface to IP set-top-boxes, with full access to the entire EZ TV channel lineup.
- **EZ TV Remote Control** - Add-on module that enables remote management of IP STBs from a single or multiple locations.

## Technical Specifications

### EZ TV Portal Server

- License for up to 5,000 concurrent viewers
- Secure HTTP interface for management
- 1-RU rack mountable 17" x 22" x 1.7"
- Power: AC 110/230 V (50/60 Hz), 350 W
- Redundant network cards

### EZ TV Player

- Operating systems: Microsoft Windows XP/Vista/2003/2008/Windows 7; Mac OS X 10.6
- Internet Browsers: Windows Internet Explorer 7 and higher; Mac Safari 4.0
- Video Formats: MPEG-1/2/4/H.264/WMV/Quick Time
- Protocols: UDP, RTP, RTSP, ISMA, SAP, HTTP, Multicast and Unicast

### EZ TV VOD/NDVR Server

- Streaming Capacity: 200Mbps (100Mbps to STBs)
- NDVR: Up to 10 concurrent SD/HD channels
- Storage Space: 500GB
- Power: AC 110/230 V (50/60 Hz), 350 W
- 1-RU rack mountable 17" x 22" x 1.7"

### EZ TV VOD/NDVR Professional Server

- Streaming Capacity: 400Mbps (200Mbps to STBs)
- NDVR: Up to 20 concurrent SD/HD channels
- Storage Space: 2TB configured as RAID 5
- Power: AC 110/230 V (50/60 Hz), 2 x 835W
- 1-RU rack mountable 17" x 28" x 1.7"
- Redundant power supplies and network cards