



TelVue Princeton HyperCaster™

IPTV Digital Broadcaster

20 Channels of IPTV Local Origination In One Box

The TelVue Princeton HyperCaster™ Digital Broadcasters represent a new generation in hyperlocal broadcasting and local channel origination. Delivering up to 20 pure digital, IP broadcast channels in one box and supporting both native CableLabs™MPEG-2 and H.264 SD/HD transport streams, the HyperCaster eliminates the cost, quality loss, and space requirements of external encoders and dramatically streamlines the ease of management of local origination and leased access channels.

Broadcasters, cable companies, and telcos can now cost-effectively launch new local channels, DTV "dot" channels, and converge existing leased access and local origination channels to all-digital. Additionally, the HyperCaster features channel partitioning on a single server for Discrete Channel Assignment, and the ability to offer new private channels as a commercial offering, along with long-form interstitial programming including Infomercials. Integrated support of bounded Enhanced TV Binary Interchange Format (EBIF) enables interactivity within local programming.

The HyperCaster streamlines and enhances workflow with drag and drop content ingest and management, integrated scheduling, and even publishes a searchable program guide automatically right to your website. Browser-based management with remote Internet access enables control of the HyperCaster with a Web browser from anywhere in the world. The HyperCaster integrates seamlessly into an IPTV network, typically interconnecting with edge aggregation Routers, and also integrates well at a cable network's broadband service routers used for IP aggregation and/or switched broadcast (SDV) services.

With common hooks for traffic and middleware systems and a powerful open API, HyperCaster operators will be able to leverage a growing community of TelVue IPTV broadcast applications, and take advantage of an increasing array of Internet content and Web-based interactive television applications. Additionally, operators will have the ability to create new segments of services associated with community and public access, educational, government, local and now 'hyperlocal' programming.

- Create more enhanced bundles and better differentiate from satellite television service providers.
- Consolidate or centralize PEG channel services through highly efficient co-operatives or consortiums.
- Offer industry-specific broadcast programming as commercial services to local business.
- Offer leased access channel services for origination by public or private businesses.
- Create specialized interstitial services and Infomercials.



Intuitive Content Management Service



User Friendly Drag and Drop Scheduling

APPLICATIONS

- IPTV broadcast origination
- Local Channel Origination
- Leased Access Channels
- Infomercials
- PEG channel consolidation
- Hyperlocal programming

FEATURES

- A complete "Digital TV Station-In-A-Box" system
- Supports up to 20 SD or 4 HD channels
- CableLabs/MPEG/IP/H.264 compliance
- Up to 4TB of internal RAID storage
- IT-Friendly, supports FTP, SMB, HTTP & NTP
- Operate remotely from any Web browser
- Simplified scheduling with drag and drop
- Program guide generation and export
- Content, schedule and open APIs
- Third party traffic system integration

BENEFITS

- Low cost and easy to operate
- Store hundreds of hours of video
- Designed for 24 x 7 reliability
- Just 3RU (5.25") of rack space
- Intuitive CMS User Friendly Drag and Drop Scheduling

HyperCaster Specifications

We've engineered the HyperCaster with simplicity and reliability in mind through our use of Linux open source technology. Its innovative play-out scheduler makes it easy to broadcast a full schedule of recurring and one-time programs. All scheduling features are available using a standard Web browser. Remote control and management gives you unmatched flexibility.

Video Playback	
Output	MPEG-2 TS over IP (Gigabit Ethernet)
Channels	Standard and H.264 with 4 SD or 1 HD channels. Option to expand up to 20 SD channels or 4HD channels.

Program Scheduling	
Interface	Integrated HTML browser - based (secure)
Playlists	Scheduled time - based program playouts
Recurring	Scheduled recurring playout
Station Timing	Locked to NTP standard
Continuity	Auto-play default content on program gaps

Storage	
Capacity	2 TB Usable Standard (up to 3.2TB optional)
Drives	8 x 1 TB optional expansion
RAID Levels	RAID 1 on OS/RAID 6 on storage
High Availability	High Availability/High Redundancy

Physical	
Power	100 - 240VAC / 700 Watts
Dimension	17.2" x 5.25" x 25.2" (W x H x D)
Weight	60 lbs
Form Factors	3RU Standard

External Interfaces & Connections (Typically Used)	
Front Panel	Power/Fail/Drive LEDs, Power/Reset Switch
Rear Panel	Dual 10/100BT/1000BT, Link/Data LEDs
Output	MPEG-2 TS over IP (Gigabit Ethernet)

Content	
Formats	MPEG-2-Transport stream
	Constant Bit Rate (CBR)
High Availability	Content Analysis & Validation
	ATSC & CableLabs™ compatible

Content Introduction	
Protocols	FTP & SMB
Throughput	Up to 80 Mbps
Interface	10/100/1000BT

Network Management	
Interfaces	Web Browser
Protocols	SMB, HTTP, NTP
	Remote management and software upgrades
Features	Environment monitoring

Software	
OS	Linux
Device Drivers	All standard drivers
Application	Schedule Playout
	Drag and Drop scheduling, event recur and ripple
	Content management
	Custom, searchable metadata and categories; Thumbnails
	Website program guide automatic generation
	Playlist import/export
	Integrated Network Firewall
	XML - TV / TV Guide Metadata
	GDP Traffic
	VDCP

Note: Specifications are subject to change without notice.

TelVue Corporation is a broadcast technology innovator and leader in community and hyperlocal television broadcast delivery. TelVue's professional quality equipment and services, including digital video servers, live internet streaming and Video on Demand (VOD) services, and web-based bulletin board applications enable our customers to dramatically streamline and enhance channel programming and delivery, reduce costs, and be better positioned to meet the new challenges of a rapidly evolving industry.

