



TelVue Princeton™ B3000

Digital Broadcaster

Broadcast TV - Without the Cost and Complexity

Eliminate the complexity and expense associated with videotape based play out systems. The TelVue Princeton™ B3000 Digital Broadcaster is a digital broadcast system that provides a fully integrated "TV Station-in-a-Box"

The TelVue Princeton B3000 Digital Broadcaster is an all-in-one video system that can be ready to broadcast 24/7 video programming within minutes of setup. It was designed to be easy to use yet powerful. First time operators can schedule a full day of programming in minutes. More experienced operators may utilize advanced features like graphic overlays to prepare a TV channel that rivals many professional broadcast systems.

Uploading video files and ingesting DVD programming to the TelVue Princeton B3000 is as simple as drag and drop. Add internet access, and you can control your B3000 from anywhere in the world. The B3000 also automatically publishes a searchable program guide for your website.

The B3000 Digital Broadcaster builds upon the success of the venerable B1000 by adding up to 4 Terabytes of RAID storage, triple redundant power supplies, and an integrated encoder option. And, expansion of the B3000 is easy and economical.

The base server works with TelVue Princeton's complete offering of video archive servers, encoders, transcoders and editing solutions. Upgrade options include the ability to control video matrix switchers and legacy playback equipment. Additionally, when you're ready to move your successful TV channel to the Internet, TelVue provides the tools necessary for live streaming and Video-on-Demand with our newly launched PEG.TV™ solution.

The B3000 Digital Broadcaster optionally integrates seamlessly with TelVue's WEBUS® Video Messaging system, providing true multi-user video message board services to the important organizations in your community.



Content Management



Drag and Drop Scheduling

APPLICATIONS

- Local TV Channel Origination
- Public, Educational & Government (PEG) Channels
- On-Campus Student TV Broadcasting
- Community Info / Emergency Channels
- Digital Signage
- Digital Cinema & Entertainment Channels
- DTV Auxiliary Video Channels
- LO/LA

FEATURES

- The complete "TV Station-In-A-Box" system
- Broadcast MPEG files, DVD & image files
- Up to 4TB of internal RAID storage
- Triple redundant power supplies
- Optional integrated MPEG Encoder
- IT-Friendly, supports FTP, SMB, HTTP & NTP
- Operate securely from any Web browser
- Simplified scheduling with drag and drop
- Customizable content categories
- Overlay graphics and lower thirds
- Virtual trims, auto-fade & continuity
- Control optional switchers, decks & IR devices
- Program guide integrated on your website

BENEFITS

- Low cost and easy to operate
- Store hundreds of hours of video
- Expandable chassis
- Designed for 24 x 7 reliability
- Just 3RU (5.25") of rack space



B3000 Specifications

Our high performance TelVue Princeton™ B3000 Digital Broadcaster can transform your entire TV station operation. Yet, we engineered it with simplicity in mind. The 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.

Video Playback	
Video Output	NTSC Composite (B3400 4x outputs)
Audio Output	Analog Stereo (Bal or Unbalanced)
MPEG Decoder	Integrated H/W decoder to D1 resolution (720x480)
IP Streaming	Simultaneous MPEG over IP

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 or auto-switch on program gaps
Events	Video, image, capture, switch, device, overlays

On-Screen Display & Emergency Notifications	
OSD	Station logos
	RSS based - Date, time and temperature
Emergency	Text and graphic emergency messaging
	Trigger emergencies remotely via the web

Storage	
Capacity	2TB Usable Standard (up to 4TB optional)
Drives	8 x 500GB SATA II Standard (8x750GB optional)
RAID Levels	Hardware RAID 5 (Lite Version - Software RAID1 for system and 5 for media)
High Availability	RAID 5
	Hot Swap & Hot Spare
External	Integrates with standard NAS/SAN

Options	
Encoder	MPEG-2 15 Mbps CBR/VBR
Video Switch	Control Knox, Sigma, Sierra and more via RS-232
Device Control	8 IR, 2 - RS-232/422, 4 - Contact Closures per Ethernet-enabled Controller

Physical	
Power	100 - 240VAC / 760 Watts
	Triple Redundant Power Supply
Dimension	17.2" x 5.25" x 25.2" (W x H x D)
Weight	60 lbs
Form Factors	3RU Standard

Content	
Formats	MPEG-1/2 CBR & VBR, DVD, Flash, JPEG, BMP, GIF, PNG,HTML
	MPEG-1 Layer II, AC-3, Linear PCM Audio
Bit Rates	Up to 15 Mbps
High Availability	Content Analysis & Validation

Content Introduction	
Protocols	FTP & SMB
Throughput	Up to 150 Mbps
Interface	10/100/1000BT

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

Applications	
Cable / DTV / Sat.	NTSC Video Broadcast (PAL Optional)
IPTV	MPEG-2 over UDP
Point-of-Sale	Playout to video monitors
Digital Signage	Playout to video monitors

Software	
OS	Linux
Device Drivers	All standard drivers
Application	Schedule Playout, Overlay, Switch, Encoder, Device events
	Drag and Drop scheduling, event recur and ripple
	Content management
	Custom, searchable metadata and categories; Thumbnails
	Integrated drag and drop DVD ingest
	Website program guide automatic generation
	Playlist import/export

External Interfaces & Connections (Typically Used)	
Front Panel	CD-ROM , USB
	Power/Fail/Drive LEDs, Power/Reset Switch
Rear Panel	Dual 10/100BT/1000BT, Link/Data LEDs
Output A/V	Video on BNC, Audio on mini-XLR (RCA with cable),Ethernet for IPTV

Note: Specifications are subject to change without notice.

TelVue Corporation is a broadcast technology company that helps hyperlocal television channels achieve professional results at affordable prices. TelVue achieves these results by using our proprietary digital media software and today's open technologies to simplify professional broadcast equipment and workflow. As a result, our customers benefit from improved programming, reduced costs and are better positioned to meet the new challenges of a rapidly changing industry.

