



More broadcasting with less hardware!

The HyperCaster AIO (All-In-One) B2000 gives you ultimate flexibility in a single, powerful, broadcast server. Each SDI port can be configured as an input or output for multiple channels of Playback & Encoding, plus native SDI & IP Switching all-in-one! Optional HD/SD Simulcast is perfect for PEGs delivering SD on Cable, with full HD Streaming/OTT. The AIO Series includes a user-friendly, access-from-anywhere, browser-based interface for scheduling, content management, and designing on-air graphics. Simplify your workflow, trim your equipment, and get the best of both SDI & IP with the HyperCaster AIO.

INPUTS

- Up to 12 auto-sensing HD-SDI inputs
- HD-SDI switching & file encoding
- StreamThru IP Switching & optional Capture
- Files: MPEG-2 PS/TS, DVDs, MP4, MOV, AVI
- Streams: Transport, RTMP, HLS
- Codecs: MPEG-2 & H.264, SD & HD

OUTPUTS

- Up to 4 simultaneous HD-SDI playback channels
- Built-in Up & Down Conversion
- Optional HD/SD Simulcast (2 ports/channel)
- Dynamic Downstream Graphics on all sources
- Motion Logos, Tickers, Snipes, Squeezebacks
- CEA-608/708 Closed Captions

AND BECAUSE IT'S A TELVUE SERVER, YOU ALSO GET:

- Browser-based, easy content and scheduling tools
- 24/7 Support – Expandable Design – Future-Proof Technology
- Powerful Options
 - Streaming & OTT Integration with TelVue CloudCast™
 - Cloud Contributor Upload & Media Exchange with TelVue Connect™
 - InfoVue™ Plugin Module for Per-Channel Community Bulletin Board
 - Real-time Audio Loudness Plugin (CALM Compliant)
 - Archive Integration (NAS, Archive.org)

HyperCaster® AIO B2000 Specifications

I/O Configuration	
Channels	Up to 5 total Playback + Encodes (MAX 4 Playback, 4 Encodes)
HD-SDI Ports	Up to 12
SDI Inputs	All SDI ports not used for Playback available as auto-sensing, switchable inputs
IP Inputs	Transport, RTMP, HLS via GigE. StreamThru™ IP Switching, optional Capture
HD/SD Simulcast	Optional, requires 2 ports per Channel
Storage	
OS/System	SSD
Media	11.5TB, 8 Drive RAID 6 standard. Up to 32 TB.
Archive	Optional Archive to NAS (FTP, CIFS) and Archive.org
Content	
File Formats	MPEG-2 Program, MPEG-2 Transport, DVDs, VOB, MP4, MOV, AVI
IP Streaming Formats	MPEG-2 TS over UDP, RTP (Unicast, Multicast, SSM Multicast), RTMP, HLS
Video Codecs	MPEG-2, H.264
Audio Codecs	MPEG-1 Layer II, AC-3, AAC, MP3, LPCM
Closed Captions	CEA-608/708
Video Bit Rates	Up to 20 Mbps
Upload Protocols	FTP, CIFS
Recording	
Encode	MPEG-2 Transport (MPEG-2 and H.264 SD/HD)
IP Capture	Optional up to 4 Simultaneous
Playback	
Video Resolutions	SD 480i/29.97 NTSC & 576i/25 PAL, 720p50/59.94/60, 1080p23.98/24/25/29.97/30, 1080p50/59.94/60, 1080p50/59.94/60, 1080i25, 1080i29.97, 1080i30 Automatic up/down-conversion
Audio Format	48 kHz, 16 bit
Audio Channels	Stereo
Audio Processing	Optional Real-time Audio Loudness Management (CALM Compliant)
VANCs	CEA-608/708 Closed Captioning
Downstream Graphics	
	Bugs, Tickers, Snipes, Squeezebacks, Motion Logos, Emergency Tickers
Network Management	
System Health Notifications	SNMP, Email, REST API, and Web Browser UI.
Other	Built-in Firewall & Routing Table, Remote Management, Station Timing Locked to NTP

Note: Specifications are subject to change without notice.

Physical	
Power	100 - 240 VAC / 740 Watts
Dimensions	17.2" x 3.5" x 25.5" (W x H x D)
Weight	35 lbs.
Form Factor	2RU Rackmount, 19" Standard
High Availability	Watchdog Timer Solid State System Drive, RAID 6 Content Storage, Redundant Power Supplies

External Interfaces & Connections (Typically Used)	
HD-SDI ports	Up to 12
External Reference	Blackburst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD format.
Copper NICs	Quad 10/100/1000 BT
Other NICs	Option for Dual Fiber 10/100/1000 BT in lieu of 2x Copper.
Front Panel	Power/Fail/Drive LEDs, Power/Reset Switch/ LCD Interface

Application Software	
Operating System	Linux, Standard Drivers
User Interface	Integrated, HTML Browser-based
Content Management	Custom Metadata, Hierarchical Categories, Videos Previews with Virtual Trim Editing, Advanced Search, Bulk Actions, Optional Archiving Management
Scheduling	Drag & Drop, Copy/Paste, Block Copy, Bulk Modify, Recur, Ripple, Import/Export
Continuity	Auto fill Program Gaps with Playlists or Live sources
Graphics	Built-in, WYSIWYG Editor, Multiple Simultaneous Overlays, Alpha Channel, Drop Shadow Text, Date & Metadata Variables
Reports	As Run, First/Repeat Run, Missing Files
TV Listing	Embeddable, Searchable Website Program Guide, Rovi X-List, XMLTV, Minerva, RSS
Traffic & Billing	Optional CCMS
APIs	REST, RSS, SNMP
User Management	Roles, Emergency-only User, Preferences

Cloud Services	
	Optional Streaming & OTT with TelVue CloudCast™, Cloud Upload with TelVue Connect™

Model	AIO B2000-12	AIO B2000-8	AIO B2000-4
Max Playback Channels	4	2	1
IO Mix	Up to 5 Playback/Encodes	Up to 3 Playback/Encodes	1 Playback + 1 Encode
HD-SDI Ports	12	8	4
Storage	11.5TB, 8 Drive RAID 6 standard. Up to 32TB	11.5TB, 8 Drive RAID 6 standard. Up to 32TB	5.5TB, 4 Drive RAID 5 standard. Up to 32TB (8 x RAID 6)