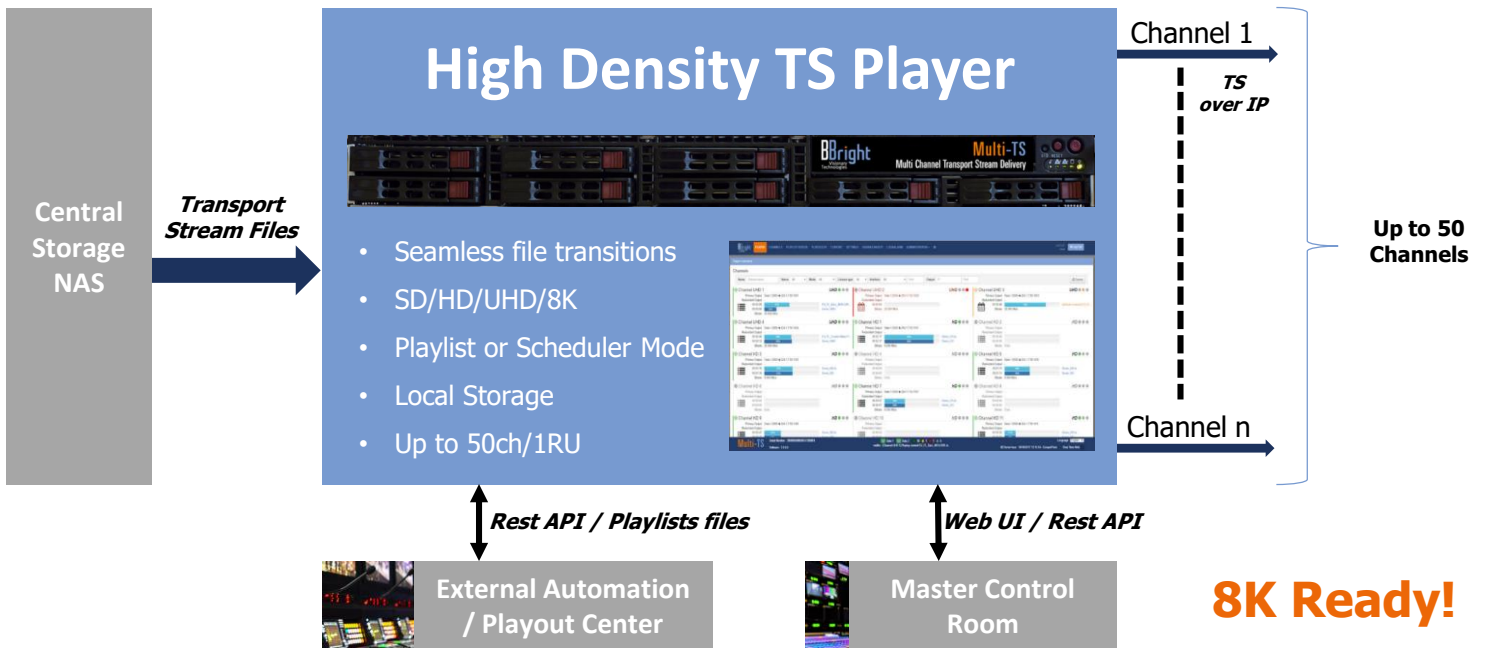


■ Highlights

- ✓ Seamless file transition
- ✓ Load pre-encoded Transport Stream Files
- ✓ SD / HD / UHD / 8K
- ✓ Playlist loop or Scheduler mode
- ✓ Local RAID 5 Storage
- ✓ UP to 50 channels per server



■ Specifications

■ Video:

- ✓ Multi-Codec support: HEVC / H264 / MPEG2 / JPEG2000
- ✓ SD, HD, UHD & 8K
- ✓ Up to 130 Mbps per channel
- ✓ HDR: HLG, HDR10, Dolby Vision, SL-HDR1, SL-HDR2

■ Audio:

- ✓ AAC, HE-AAC (v1 & v2), AAC-LC / MPEG-1 Layer II / PCM
- ✓ Dolby Digital, Dolby Digital+, Atmos, DolbyAC-4

■ TS processing:

- ✓ PCR and Continuity Counter processing
- ✓ PTS/DTS Restamping
- ✓ GOP cleaning
- ✓ PID Remapping: 1x Video, 10x Audio, 5x Subtitles
- ✓ Null-packet stuffing for CBR output
- ✓ Raw Mode

■ Monitoring:

- ✓ Video Thumbnails
- ✓ Audio Bargraph for monitoring
- ✓ Bitrate overshoot alarms

■ Inputs:

- ✓ SPTS and MPTS ingest (FTP / NAS) or USB
- ✓ Transport stream container (.ts)

■ Outputs:

- ✓ Multiple SPTS Multicast over IP in UDP or RTP (or MPTS)
- ✓ FEC/SMPTE 2022-1
- ✓ Stream duplications on secondary Multicast address
- ✓ Max. 500 Mbps combined SPTS outputs

■ Controls:

- ✓ Web UI
- ✓ Rest API
- ✓ 1 + 1 Main and Back-up server's content redundancy
- ✓ Playout control by text-based, xml, json traffic import

■ Chassis & Connectivity:

- ✓ Two IP-bonded GbE ports for GUI control/ingest
- ✓ Two independent GbE ports for TS over IP streaming
- ✓ Redundant power supplies

UHD-TS / Multi-TS / Multichannel Transport Stream Player

Markets and Use Cases

- ✓ Linear Channel
- ✓ Barker Channel / Disaster Recovery
- ✓ Lab TS Source
- ✓ Satellite Service Providers
- ✓ IPTV Service Providers
- ✓ R&D Labs

Storage

Type	Reference	Storage	Hours @ 5 mbits/s	Hours @ 10 mbits/s	Hours @ 20 mbits/s
Appliances	TSO_UHDTS	4x 1TB RAID 5	1 400 hours	700 hours	350 hours
	TSO_MULTITS_SILVER	4x 1TB RAID 5	1 400 hours	700 hours	350 hours
	TSO_MULTITS_GOLD	8x 1TB RAID 5	3 260 hours	1 630 hours	815 hours

User Interface

The screenshot displays the bbright Multi-TS web interface. The top navigation bar includes 'CHANNELS', 'PLAYLIST EDITOR', 'SCHEDULER', 'CONTENT', 'SETTINGS', 'USB/NA'S INGEST', 'LOGS/ALARM', and 'ADMINISTRATION'. The main content area is divided into several sections:

- Channels:** A list of 13 channels on the left, including '#1 - Channel 1 UHD', '#2 - TEST PRO UHD', '#3 - TEST_GCH4HD', '#4 - Channel 4 UHD', '#5 - Dolby CTP UHD', '#6 - TEST_ATM8SP', '#7 - damien UHD', '#8 - DEMO Mar4HD', '#9 - Test_Sam UHD', '#10 - Test_Sam UHD', '#11 - Test_Sam UHD', and '#13 - Channel 13HD'.
- #1 - Channel 1 - Output Signal Configuration:** Shows TS settings (Raw TS, Bitrate, Program number, PID, PMT, Video, Audio, Subtitle) and Network settings (UDP/RTP, FEC, TTL, TS packets, Primary Output, Redundant Output).
- #1 - Channel 1 - Playback:** Displays a video player with a progress bar, video info (Codec: HEVC, Profile: Main 10, Resolution: 3840x2160, HDR: HDR10/10PQ, Color info: 60000/16200/200, Pixel format: 4:2:0 10b), and network interfaces (Data 1, Data 2).

The bottom status bar shows 'Name: MyPlatform', 'Serial Number: BBRIGHT700001', 'Software: 1.5.0.6 build10', 'multi - [Test_Sam] Playing content info-People_DoW_UHD_00_H265-1Mbps_JOC+JOC-64R0ps.ts', 'Server hour: 23/07/2020 10:22:09 - UTC', and 'Real Time Web'.

Ordering Options

Type	Reference	Description	Compatibility		
Appliances	TSO_UHDTS	Ultra-HD Transport Stream Player with playlist editor and TS processing – 3 TB storage. 1RU. Single Channel	X		
	TSO_MULTITS_SILVER	Multichannel Transport Stream Player. 3TB Storage. Playlist mode and PTS/DTS/PCR reprocessing included. Up to 20 Channels. 1RU.		X	
	TSO_MULTITS_GOLD	Multichannel Transport Stream Player. 7TB Storage. Playlist mode and PTS/DTS/PCR reprocessing included. up to 50 channels. 2RU.			X
Software Options	TSO_MULTITS_PIP	User-license for a single PiP channel		X	X
	TSO_MULTITS_SD	User-license for a single SD channel		X	X
	TSO_MULTITS_HD	User-license for a single HD channel		X	X
	TSO_MULTITS_UHD	User-license for a single UHD channel		X	X
	TSO_MULTITS_8K	User-license for a single 8K channel		X	X
	TSO_UHDTS_SCH	Daily, weekly, monthly scheduler on GUI for UHD-TS playout server External text-based traffic playlists import	X	X	X
	TSO_MULTITS_SCH20	For multiple channels: Daily, weekly, monthly schedulers on GUI for Multi-TS playout server. External text-based traffic playlists import. up to 20 channels playback		X	X
	TSO_MULTITS_SCH50	For multiple channels: Daily, weekly, monthly schedulers on GUI for Multi-TS playout server. External text-based traffic playlists import. Up to 50 channels playback			X