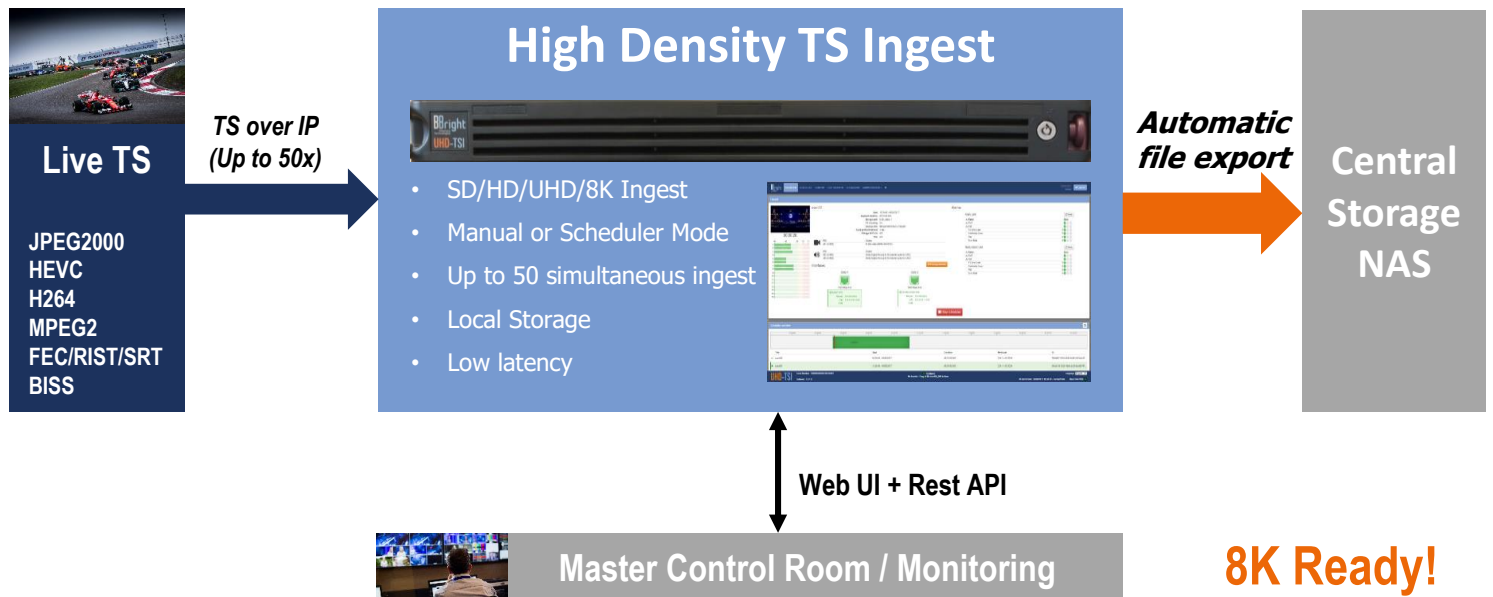


■ Highlights

- ✓ Up to 50 simultaneous channels ingest with recording scheduler
- ✓ Multi-Codec support: HEVC, J2K, H264, MPEG2
- ✓ Maximize video quality (no transcoding)
- ✓ SD / HD / UHD / 8K
- ✓ Internal RAID 5 Storage



■ Specifications

■ Video & Audio:

- ✓ Multi-Codec support: HEVC / H264 / MPEG2 / JPEG2000
- ✓ SD, HD, UHD & 8K
- ✓ Up to 130 Mbps per ingest channel
- ✓ Video thumbnails and audio bar graphs monitoring
- ✓ 24 - 7 recording event scheduler
- ✓ HDR10 / HLG / Dolby Vision / SL-HDR1&2
- ✓ AAC, HE-AAC (v1 & v2), AAC-LC / MPEG-1 Layer II / PCM
- ✓ Dolby Digital, Dolby Digital+, Atmos, DolbyAC-4

■ TS processing:

- ✓ PID filtering (for video, audio, SCTE-35)
- ✓ SPTS & MPTS support
- ✓ Black video and silent audio TS insertion in case of input loss

■ Controls:

- ✓ Intuitive Web UI
- ✓ Rest API

■ Inputs:

- ✓ Multicast or Unicast TS over IP on dual Gb Ethernet ports
- ✓ Redundant Transport Stream Input
- ✓ SPTS or MPTS (PID Filtering)
- ✓ ETR 101-290 level 1 input error monitoring
- ✓ FEC/SMPTE 2022-1

■ Outputs:

- ✓ Automatic transfer of recorded files to NAS (CIFS or NFS)
- ✓ Ingest Files recorded on local storage (RAID5)
- ✓ Older recordings purge when HDD space becomes required

■ Chassis & Connectivity:

- ✓ Two IP-bonded GbE ports for GUI control & Rest API
- ✓ Two independent GbE ports for TS over IP streaming
- ✓ Two IP-bonded GbE ports for Data out / NAS
- ✓ Redundant power supplies

■ Operations

- Event can be recorded as single file or chunked in multiple shorter segments for easier and faster preview/QC. Black and silence insertion ensure an uninterrupted file in case of contribution input loss. A proprietary HEVC / AVC transport stream chunking algorithm at starting and ending points ensure seamless file playout when reused later (either VOD, transcode or playout).
- File transfers from the internal storage to a central NAS are fully automated.
- The embedded scheduler, within the web-based GUI, allows an easy sequencing of all recording events over days, weeks and months.

UHD-TSI / Multi-TSI / Multichannel Transport Stream Ingest

Markets and Use Cases

- ✓ High end contribution recording
- ✓ Live events recording for VOD
- ✓ Time delay
- ✓ Compliance recording
- ✓ Broadcast Centers
- ✓ VOD & CatchUp TV service providers
- ✓ UHD & 8K special events recording

Storage

Type	Reference	Storage	Hours @ 5 mbits/s	Hours @ 10 mbits/s	Hours @ 20 mbits/s
Appliances	TSI_UHDTSI	4x 1TB RAID 5	1 400 hours	700 hours	350 hours
	TSI_MULTITSI_SILVER	8x 1TB RAID 5	3 260 hours	1 630 hours	815 hours
	TSI_MULTITSI_GOLD	12x 1TB RAID 5	5 120 hours	2 560hours	1 280 hours

User Interface

The screenshot displays the BBright Recorder interface. The main section shows recording details for 'TEST RECORD3' starting at 10:44:31 on 22/07/2020. It lists segment duration, storage path, TS chunking, black profile, filtering, and HDR settings. Video and audio details are provided, including PIDs, codecs (H.265 and Dolby Digital Plus), and interfaces (Data 1 and Data 2). A 'Main link' is active at 90,000 Mb/s. An 'Alarms' section on the right shows the status of Main and Redundant links, including PMT, PAT, TS Sync Loss, Continuity Count, PID, Sync Byte, and RTP Packet Lost. The bottom status bar shows 'RUNNING', 'Data 2 link presence: Alarm [UID: 2] raised (counter 412584)', and server information.

Ordering Options

Type	Reference	Description	Compatibility	
Appliances	TSI_UHDTSI	High bit rate HEVC Transport Stream File Ingest Station including recording event scheduler – 3TB storage- Native HDR / HD HFR. 1RU. No extra license required.	X	
	TSI_MULTITSI_SILVER	Native all HDR format, HD HFR, up to 20 simultaneous Channel Ingest . 8TB. 1RU.		X
	TSI_MULTITSI_GOLD	Native all HDR format, HD HFR, up to 50 simultaneous Channel Ingest - 12TB. 2RU.		X
Software Options	TSI_MULTITSI_SD	User-license for a single SD channel Ingest		X X
	TSI_MULTITSI_HD	User-license for a single HD channel Ingest		X X
	TSI_MULTITSI_UHD	User-license for a single UHD channel Ingest		X X
	TSI_MULTITSI_8K	User-license for a single 8K channel Ingest		X X
	TSI_MULTITSI_SCH20	For multiple channels: Daily, weekly, monthly schedulers on GUI for Multi-TS playout server. External text-based traffic record lists import. up to 20 Ingest channels		X X
	TSI_MULTITSI_SCH50	For multiple channels: Daily, weekly, monthly schedulers on GUI for Multi-TS playout server. External text-based traffic record lists import. up to 50 Ingest channels		X X