

# STREAMPROBE



ST 2110 ST 2022-6

## QoS & QoE monitoring throughout the entire video delivery chain

STREAMPROBE SOLUTION PROVIDES A CENTRALIZED OVERVIEW OF THE **SERVICE AVAILABILITY AND VIDEO QUALITY THROUGHOUT ALL THE STRATEGIC STAGES OF THE MEDIA PROCESSING & DELIVERY FLOW, BY 24/7 MONITORING**. IDEAL FOR ALL **TV SERVICE PROVIDERS & NETWORK OPERATORS** – LINEAR BROADCAST TV, IPTV, CABLE TV, SATELLITE TV, OTT, VOD, NPVR – **TRANSPORT CONTRIBUTION & DISTRIBUTION** AND **SERVICE PLATFORM PROVIDERS**, LOOKING TO **ENSURE THE BEST END-USER QUALITY OF EXPERIENCE** ALL WHILE **OPTIMIZING OPEX**.

## APPLICATIONS

- **End-to-end Availability (QoS) and Quality (QoE) for all Video Services**
- **Increase uptime** by detecting issues before your customers do  
By 24/7 real-time supervision & alerting
- **Optimize daily operation & maintenance**  
Drill down analysis, on-error proof recording
- **Quality Reports generation for SLA commitments**
- **Compliance 24/7 recording**

### QoS - Service Availability & Integrity

- Uncompressed streams over IP: SMPTE ST 2110, ST 2022-6 (SDI over IP)
- **IP transport** issues detection (RTP, FEC)

### Live Thumbnail Mosaic Wall

- **All services view at-a-glance** on a thumbnail wall, real-time update
- **Highly customisable per user**: grouping, audio levels, penalty box
- **Monitoring by exception**: display only faulty services – penalty box



## BENEFITS

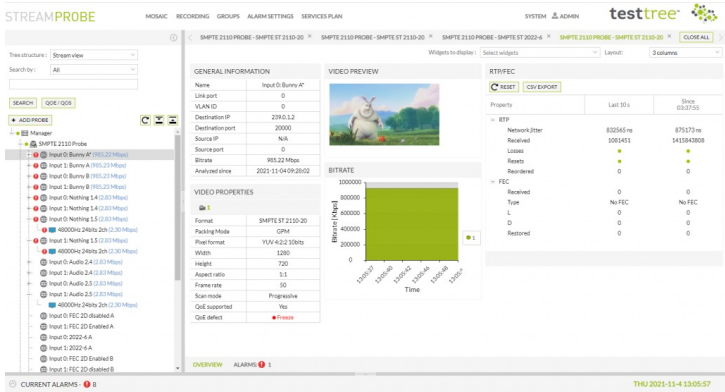
- **One single unified web GUI for all Services Management**  
Contribution, encoding, packaging, transport, linear, VOD  
Fast training of operational teams
- All Services Quality view at-a-glance: **Live Thumbnail Mosaic Wall**
- **Pay as you grow with flexible licensing & deployment architecture**  
HighDensity full SW solution – up to 100Gbps of uncompressed streams per 1RU Appliance

### QoE - Service Audio/Video Quality

- Full content monitoring
- **Audio & Video defect** detection: freeze, black screen, silence
- Video thumbnails display
- SD, HD, 3G, UHD support

### System Integration & NBI

- **Configurable alarming thresholds**: general, daily and weekly alarm profiles **configurable per service**
- NMS integration: **SNMPv2** support for alarm traps
- Monitoring information available via an **open API** (HTTP/JSON API)
- **Service provisioning API** for 3rd party NMS **Orchestration**



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MONITORING FEATURES

|  |   |
|--|---|
| QoS - Service Availability & Integrity check | ST2110-20, ST2110-30 PCM, ST2022-6 video<br>FEC support (packets recovered/lost), IP jitter   |
| QoE - Service Audio/Video Quality            | Video defect detection: freeze, black screen<br>Audio defect detection: silence, level too low/high, noise<br>Video pixel format: YCbCr-4:2:2; bits depth: 8 bits, 10 bits, Interlaced/Progressive<br>Audio sample rate: 44100, 48000, 96000; number of channels up to 64; sample depth: 16 bits, 24 bits<br>SD, HD, 3G, UHD  |
| Thumbnail Mosaic view                        | All services view at-a-glance on a thumbnail wall, real-time update<br>Highly customisable per user: grouping, audio levels, penalty box<br>Monitoring by exception: display only faulty services – penalty box   |
| System Integration & NBI                     | Configurable alarming thresholds: general, daily and weekly alarm profiles configurable per service<br>Alarm log history CSV export<br>SNMPv2 support for alarm traps<br>Monitoring information available via an open API (HTTP/JSON API)<br>Service thumbnails can be retrieved via API call – for 3rd party dashboard display<br>Service provisioning API for 3rd party NMS Orchestration |

TECHNICAL CHARACTERISTICS

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| SW solution: custom Linux OS   |
| Performance CPU, RAM, HDD depending on the bitrate capacity to monitor |
| 100Gbps maximum capacity per Appliance                                 |
| Supporte input(s): 25Gb IP ports                                       |

ORDERING\_CODES

|                  |   |
|------------------|---|
| StreamProbe 2110 | Video QoS & QoE Monitoring for Uncompressed Streams |
|------------------|---|

|         |  |
|---------|--|
| options | Bitrate (Gbps) : Define the bitrate capacity to monitor<br>SW Pack ACCESS : Full QoS & QoE |
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