



The VB7880 Objective QoE Content Extractor performs objective video and audio measurements of MPEG-2, H.264 and HEVC streams and offers remote video-wall capability. The VB7880 content extractor offers thumbnail and metadata extraction for up to 100 TV multicast streams concurrently via GigE interfaces. The VB7880 content extractor is ideal for visual at-a-glance monitoring in the NOC, VOC, head-end or remotely via any standard web browser.

The VB7880 is typically placed before scrambling insertion in the head-end and the extracted metadata and decoded imagery is fed to the VideoBRIDGE Controller. Disruption of descrambling services is one of the main causes for service production disruptions in the head-end, and for the first time cost-effective monitoring of scrambling is available.

Further applications are in middleware scenarios for generating channel mosaics or for extracting channel metadata such as picture resolution, video bandwidth or wide screen signalling information.

Each VB7880 runs an HTTP server with the client as a web browser, so there is no need to install custom software on computers needing access to the measurement data.

The VB7880 content extractor runs on any standard server that meets the specifications. With this hardware the VB7880 can round-robin 100 H.264 services within 15 seconds, each round generating thumbnail picture, testing for freeze/black frame and monitoring loudness (EBU R128, ATSC A/85, ITU 1770).

Typical server specifications are: Dual 6-core Intel E-Series 2.0GHz CPU, 32GB 1600MHz DDR memory, 2 x 1GigE interface, 1TB HDD, Red Hat Enterprise 7 OS.

KEY FEATURES

- GigE interface
- Thumbnail extraction of up to 100 concurrent services in base version
- Thumbnail mosaic
- Display of audio level bars and metadata for selected multicast
- MPEG-2, H.264 and HEVC decoding
- SD and HD decoding plus support for resolutions to 4k
- Decoding supported: MPEG-2 Transport Stream (ISO/IEC 13818-1:2000)
- Protocol formats: nTS/UDP, nTS/RTP/UDP n=[1:7] (ETSI TS 102 034)
- Custom video PID definition for non-PSI streams
- Visual alarm icons for standard errors
- Scrambling expected alarming
- Clear expected alarming
- Freeze frame detection and alarming, regular freeze and color freeze
- Audio silence detection
- Searchable alarm lists
- Built-in web-based management
- Optional central management via VideoBRIDGE Controller server (VBC)
- IPv6 management
- NMP multi-destination trapping
- Eii™ External Integration Interface for easy integration into any 3rd party OSS / NMS system

Remote Video Wall Features Include:

- Browser based for unlimited clients
- 4 pages with up to 16 services per page, with flexible layout
- Presentation of VBC alarms
- Thumbnails refresh according to round-robin interval of extractor
- Support for IPv4 and IPv6

SPECIFICATIONS

Objective QoE Content Extractor VB7880

