

Applications

- Sophisticated Hyperion content quality management tools allow true assessment of the value of the signal, not just presence, ideal for streamlined operations
- Automated scale-able content QC, suited to:
 - Multi-channel playout facilities and complimentary monitoring of high value content
 - Automated ingest processes including timecode logging for accurate location of Hyperion alarms
 - Remote location monitoring such as business continuity sites and unmanned teleport facilities
 - Single to quad channel options provide a cost-effective flexible solution
 - Dedicated monitoring outputs with OSD for Hyperion audio/video alarms and audio level meter information
 - Real Time content QC against genre profiles ensure any on air issues are identified with minimal potential impact on revenue, such as scheduling errors or dropped frames on commercial content
- Remote monitoring over TCP/IP via video Thumbnails
- Legal & Technical validation of signal including detection and reporting of closed captions, content advisory rating, XDS Program data
- Automated ingest QC significantly increases throughput efficiency over manual QC processes
- Hyperion alarm data integrates with all major Video display wall processors to streamline alarm reporting in playout facilities

QC Station Advanced Hyperion™ Intelligent Monitoring Workstation



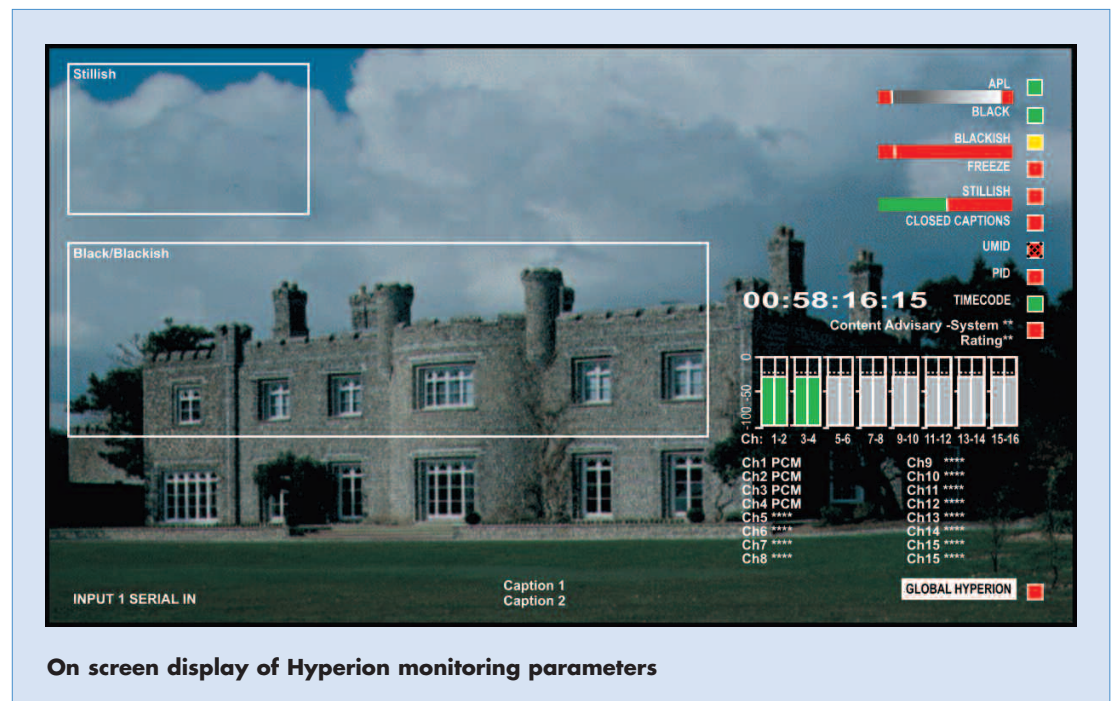
QC station is a dedicated advanced monitoring system providing 4 Hyperion advanced monitoring nodes in a compact 1U solution. QC station uses revolutionary Hyperion content monitoring to provide the advanced QC tools required for modern broadcast operations. Hyperion is designed to continuously and automatically monitor signal content providing verification of whether legal and technical obligations are being met and to provide guidance as to whether the content is within the required parameters to be considered as valid. For video factors such as motion level within the content, the amount of darkness and amount of picture color are monitored. Audio factors reported include Dolby D/E or PCM audio presence, likeness and level information such as silent, quiet, loud and overload.

Picture regions can be monitored to allow for animated logos and on-screen graphics such as crawls. Alarm thresholds can all be adjusted allowing profiles to be set by the user for different material types (genres).

Content may be tracked through the broadcast chain by the insertion and reading of SMPTE UMDs or Internal House Number, title and duration metadata. This data can be used to track content, verify that the correct content is being transmitted and even frame count the duration of every piece of content to ensure contractual obligations are being met. For ingest applications timecode information can also be interpreted and stamped on any Hyperion alarms to enable efficient location of QC alarms.

All alarms from this product can be integrated into the major Video display wall processors to streamline alarm reporting and reported through SNMP to other vendor Control & Monitoring systems.

For remote content identification, delivery of video thumbnail images and audio level monitoring provide a secondary manual level of confidence that content is correct at both internal and remote locations.



On screen display of Hyperion monitoring parameters

Order codes

QCSTATION1 - Single Channel
Hyperion Intelligent processing and
content monitoring workstation

QCSTATION2 - Dual Channel
Hyperion Intelligent processing and
content monitoring workstation

QCSTATION3 - Triple Channel
Hyperion Intelligent processing and
content monitoring workstation

QCSTATION4 - Quad Channel
Hyperion Intelligent processing and
content monitoring workstation

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improvement. Specifications are therefore
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Inputs & Outputs

Signal Input

Electrical 1.5Gbit/s HD-SDI, SMPTE 292M
270 Mbit/s SDI, SMPTE 259M-C
Connector / Format BNC/ 75ohm panel jack on standard S&W
connector panel
Input Cable Length Up to 140m Belden 1694A @ 1.5 Gbit/s
Up to 350m Belden 1694A @ 270 Mbit/s
Return loss > -15dB

Signal Outputs

Electrical 1.5 Gbit/s HD-SDI, SMPTE 292M
270 Mbit/s SDI, SMPTE 259M-C
Connector / Format BNC/ 75ohm panel jack on standard S&W
connector panel
HD / SD-SDI Outputs per channel
x 7 (1 selectable main or monitoring)
Return loss > -15dB

Specifications

Electrical Standards supported: 625/50, 525/59
1080/25i, 1080/29i, 720/50p, 720/59p

Power Consumption

Max Power Consumption TBA

Controls per Hyperion Channel

Indicators
Power OK (Green)
CPU OK (Flashing)
FPGA OK (Flashing)
Content Status Summary OK (Green)
Warning (Yellow)
Error (Red)

Functions

Main output OSD On/Off
Monitor output OSD On/Off
Monitor output select Main/Monitoring

Video

Video Thumbnails over TCP/IP
Motion Level (Stillish)
Picture Darkness (Blackish)
CRC/EDH Reporting
Average Picture Level
Luma High/Low
Chroma High/Low
Chroma/Luma Underflow
Video Bit Depth
Black
Input Status
Input Standard
Freeze Detect

Audio

Audio Presence
Audio Type Detection (PCM, Non-PCM,
Dolby E, AC3, MPEG Audio (SMPTE 338M))
Audio Bit Depth
Audio Level Metering
Audio Silence
Audio Quiet
Audio Loud
Audio Overload
Audio Out of Phase (Polarity)
Audio Mono/Stereo Detection

Metadata

SMPTE UMID
(Insert, Report & Scrub)
Program ID
House Number Watermarking (Insert, Report
& Scrub)
Closed Captions Detection (CEA608,
CEA708, WSS, AFD, VI)
Content Advisory Rating
(XDS, V-chip)
ANC Timecode (720p, 1080i)
VITC Timecode (525, 625)
User Definable ANC Detectors
Dolby E Guardband reporting
Timecode Logging

On Screen Display

Picture Region Configuration On/Off
Audio Level Meters
Audio Presence & Type
Content advisory system & rating
2 x 19 character caption generators
Timecode display
Average picture level

User Memories

16 x Save / Recall / Rename

