



ContentProbe Compliance and Monitoring Solutions

ContentProbe Verification - An overview....

The ContentProbe range comprises high performance 1U Video & Audio Compliance Recording and Monitoring units that can be used stand-alone or as part of a flexible IP networked monitoring system. ContentProbes can be deployed anywhere there is an internet connection and a signal you wish to monitor.

Low cost remote content monitoring and verification of TV signals.

IdeasUnlimited.tv's fully-scalable ContentProbe product makes tiny, precise, digital 'FingerPrints' of any TV signal, which it then monitors and compares with other signals in real-time using low bandwidth internet connections. The robust, non-invasive method does not alter the picture as it transported separately and survives compression, including web-casting. Using ContentProbe, you can be certain that you are sending the right pictures in the right format with the right sound, ensuring you satisfy Quality of Service standards.

With so many TV channels now, it's very difficult to monitor a signal through a large number of separate processes and transmission paths. ContentProbe can automatically compare the original signal and the received signal at any point in the chain. Full logs are available for audit purposes including minipics and browse proxies. Alerts can be generated in real-time including email, SMS, SNMP and GPI triggers.

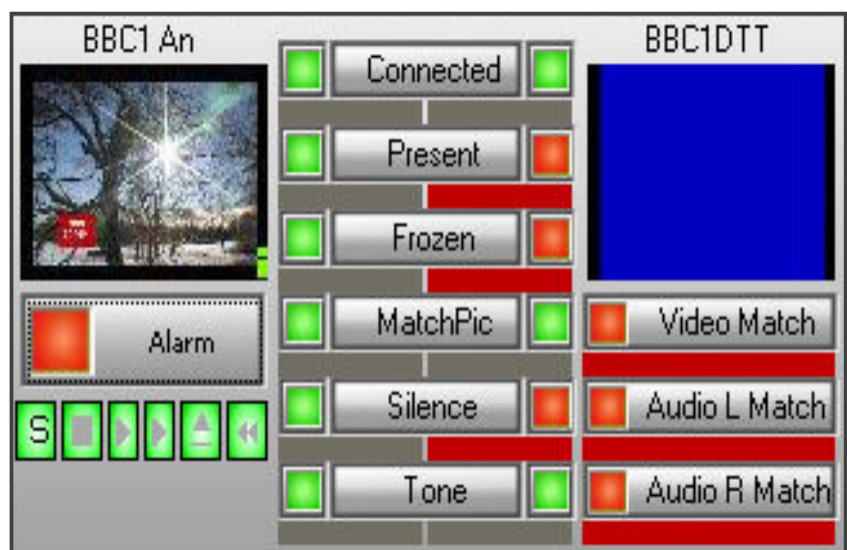
Operational costs can be cut substantially by the reduction in the need for both monitoring staff and for many organisations the need for expensive return path circuits can be eliminated. Return on investment can often be measured in months rather than years.

There are of course, sound commercial reasons why broadcasters need to know that their correctly-formatted signal is reaching its intended audience. The protection of brand image and on-screen style is important, particularly to large broadcasters competing against the proliferation of smaller channels working to different – and less rigid – agendas. It is essential that commercial networks can verify that the advertisements sent out to their affiliates are broadcast correctly.

ContentProbe Verification from IdeasUnlimited.tv solves this problem.

ContentProbe Verification software provides real-time comparison of any number of signals and checks them for content, aspect ratio and audio presence/faults. The software can also be integrated with Transmission Automation systems.

A Desktop Viewer gives quick and easy access to media and comprehensive engineering logs on any P.C, alternatively have the reports emailed. Standard layouts can be customized to suit your operation, from a single green light to a comprehensive multi-channel status display.



Desktop

Viewer

ContentProbe Verification - continued...

In a typical television transmission chain, the signal may pass through many separate processes and switching stages, any one of which may fail or detrimentally affect the picture or – worse still – the wrong video or audio signal could be switched through. ContentProbe monitors picture content, audio content, aspect ratio etc.

In today's sophisticated, multi-channel environment, the number of processes during which a problem may occur has increased dramatically, the potential signal paths to the consumer have multiplied and there has been a proliferation of channels being transmitted. As a result, it has now become virtually impossible for staff to monitor a signal through all these separate processes and transmission paths.

ContentProbe Verification allows direct comparison between the original signal at any point of the processing chain or transmission path and, the processed or received signal. This provides the broadcaster the capability to verify local and remote transmissions, with a full logging facility for audit purposes.



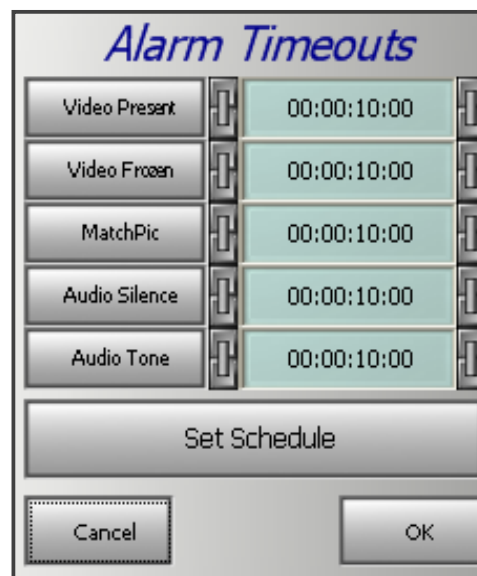
Example emailed PDF Alert



Log Viewer with easy access to PDF Reports



Stream & Rewind on demand

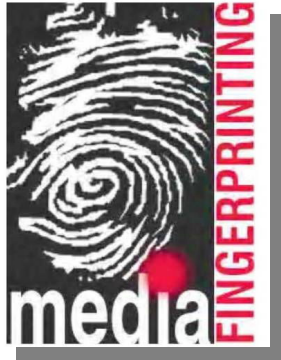


Adjustable Alerts

Comprehensive event logging and has adjustable alarm triggers are provided which can be via E-mail or SNMP (also SMS or GPI with hardware option). 30-second WM9 files can be automatically attached to emailed reports.

ContentProbe Verification - continued....

Media FingerPrint Generation



This powerful module can be added to any of the ContentProbe models and generates Media FingerPrint data of any video & audio signal which can then be used to compare any number of TV signals in real-time and check for content match. FingerPrint data is like “DNA for video” providing an accurate method of checking and comparing signals in real-time. For further information see separate documentation.

IdeaUnlimited.tv's SMPTE-registered Media FingerPrinting technology enables users to store FingerPrint metadata within the MXF file as part of the ingest process.



Features & Options	Model				
	FTS1000	FTV1000	MRF1000	CRE2000	CRF2000
Compliance Recording	x	x	✓	✓	✓
Mark up and export clips	x	x	✓	✓	✓
RAID5 Protection with battery backup	x	x	x	✓	✓
90 to 300 Days Storage at 512kb/s (total)	x	x	○	○	○
360 Days Storage at 512kb/s (total)	x	x	x	○	○
720 Days Storage at 512kb/s (total)	x	x	x	○	○
Archive/expanded storage module	x	x	○	○	○
AdCert Compatible	✓	✓	✓	✓	✓
FaultTracker	✓	✓	✓	x	✓
Video Present Detection	✓	✓	✓	x	✓
Video Freeze Detection	✓	✓	✓	x	✓
Audio Silence Detection	✓	✓	✓	x	✓
Audio Tone Detection	✓	✓	✓	x	✓
Image/Still Detection from list	✓	✓	✓	x	✓
Scheduled monitoring	✓	✓	✓	x	✓
Full logging of all alerts/errors	✓	✓	✓	x	✓
Alert level/delay user definable by channel/type	✓	✓	✓	x	✓
Email error reports with PDF	✓	✓	✓	x	✓
Report log annotation	✓	✓	✓	x	✓
Email error reports with 30 second WM9 file	✓	✓	✓	x	✓
Email Alarms	✓	✓	✓	x	✓
SNMP Alarms	✓	✓	✓	x	✓
GPI Alarms	○	○	○	x	○
SMS Alarms	○	○	○	x	○
Daily Reports	○	○	○	x	○
Monitoring live streams	✓	✓	✓	✓	✓
Instant Rewind/rewind live signal	✓	✓	✓	✓	✓
24 Hour Browse Storage	✓	✓	✓	✓	✓
Video Thumbnail/JPEG's on PC desktop	✓	✓	✓	✓	✓
Confidence Audio Level indication on desktop	✓	✓	✓	✓	✓
User definable PC desktop layouts	✓	✓	✓	✓	✓
FingerPrint Generation Module/Verification	○	✓	○	○	○
Real-time matching of FingerPrints	○	✓	○	○	○
Hardware 1RU	✓	✓	✓	✓	✓
Available with 1, 2 & 4 input channels in 1RU	✓	✓	✓	✓	✓
Available for Composite, SDI & HD SDI	✓	✓	✓	✓	✓
RAID5 Protection	x	x	x	✓	✓
RAID1 Protection (mirrored drives)	✓	✓	✓	x	x
Hot Swap Drives in Caddy	x	x	x	✓	✓
Hot Swap PSU	x	x	x	✓	✓
Tool free access to case	x	x	x	✓	✓

- ✓ Standard
- Option
- x Not currently available

Correct at time of publishing, subject to change without notice.

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