Video Clarity

Tools for Video Analysis

New For NAB 2012

Video Clarity Products

- ClearView AV Analyzers for Product R&D, QA and Television Lab Use
  - ClearView Shuttle
  - ClearView Extreme
  - ClearView QA
- RTM and RTM Manager for Real-Time TV/OTT Network Testing and Manufacturing QA
  - RTM also combines with ClearView on a 3 RU platform
- ClearView Player / Recorder
  - Dual output model and single 3G HDSDI w/HDMI
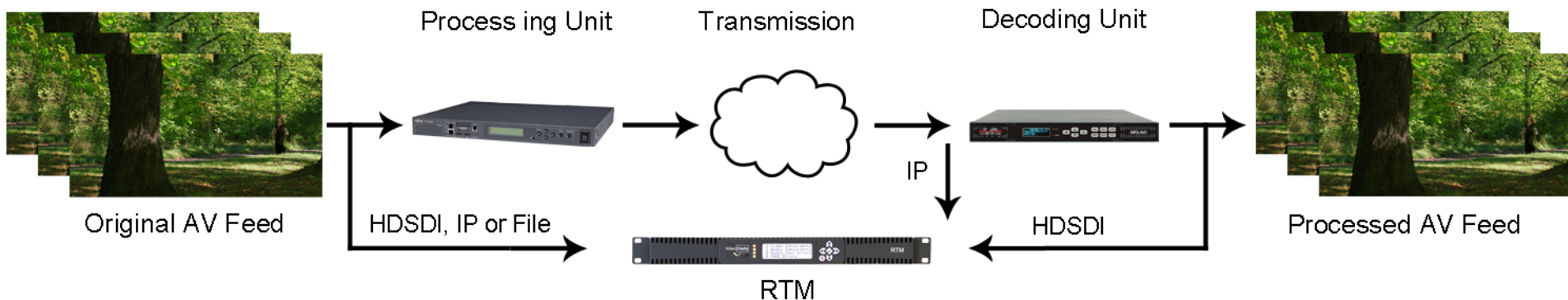 - Built for QA or product lab and continuous use

2011 Recap

- ➢ At NAB last year
  Video Clarity introduced…
- ➢ RTM Manager
  - ➢ Web server for remote Dashboard showing connection on-line to in-service RTMs and their error status
  - ➢ Includes Automatic AV Archive from RTMs on IP network
    - ➢ Client – Server application running continuously in RTM Manager pulling logs and recordings from all RTMs using a non-dedicated facility network
  - ➢ Includes RTM Player
  - ➢ 1.8 TB of storage
  - ➢ Small 1 RU form factor saves space
- ➢ For broadcast, cable, IPTV and satellite network multichannel facility
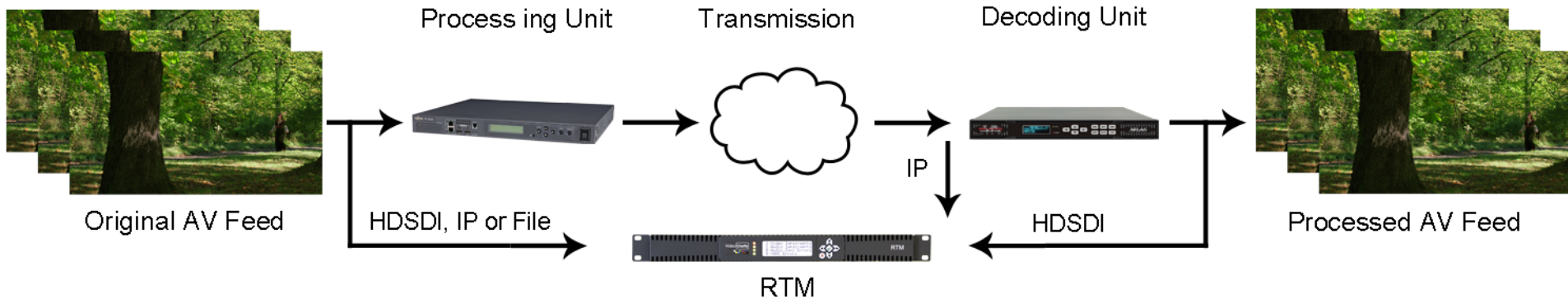
2011 Recap cont…

- In Q3 Video Clarity delivered…
- PEAQ for ClearView
  - Audio Perceptual Quality Measurement
  - ITU recommended practice
- ClearView File Importer
  - MPTS selective decode
  - Video Scaling – Crop tool
  - Trim before import and parameter settings in one GUI pane
  - CLI command set adding to ClearView automation capabilities
- Additional quality measurements for ClearView
  - A-Freq – Video Clarity audio impairment metric
  - A/V Offset (Lip-Sync)

> ## New RTM System Test Features
>> ### Introducing IP real-time testing for Over-The-Top Television and Entertainment Delivery (OTT)
>>> - De-encapsulation of IP reference and IP delivered sample
>>> - Two stream demux and decode operation
>> ### Provides all features of RTM for IP OTT test
>>> - AV quality, AV offset (lip-sync), VANC data check
>>> - …and one more thing on next slide…

New At NAB 2012

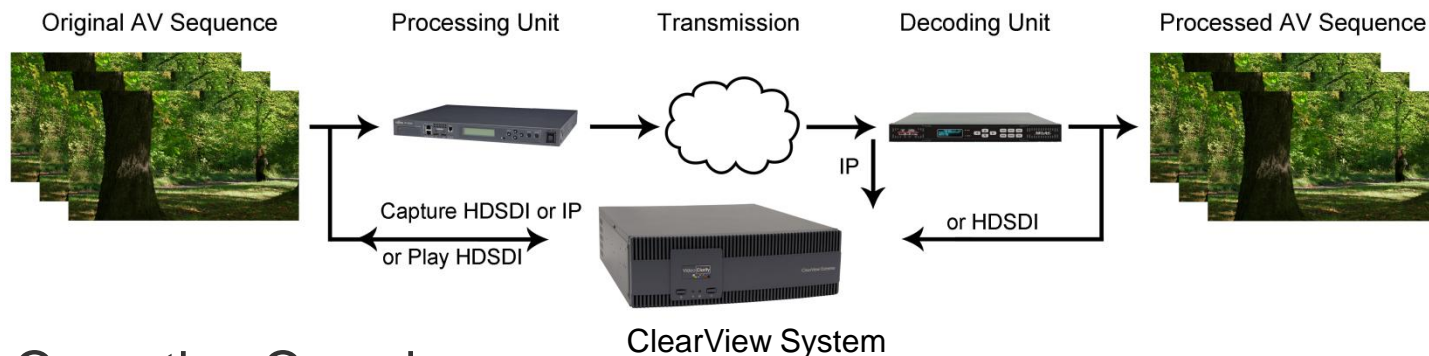- ➤ RTM
  - ➤ New loudness monitoring
    - ➤ LKFS meters on GUI for real-time visual check
    - ➤ Threshold alert, impairment log or average log history
    - ➤ Measurement according to ITU-R BS.1770

New at NAB 2012

- ➢ New ClearView Shuttle
  - ➢ Yes it's very small!
  - ➢ 2 rack units in height, half rack width
  - ➢ Two models to choose from
    - ➢ Dual HDSDI or HDSDI/HDMI with analog IO
  - ➢ Light weight – 11.5 lbs. – 5.4 Kg
    - ➢ Very portable with its included hard case
  - ➢ 1.3 TB storage in a single volume
    - ➢ New SSD storage configuration provides high performance IO
    - ➢ Additional reliability and smaller system package
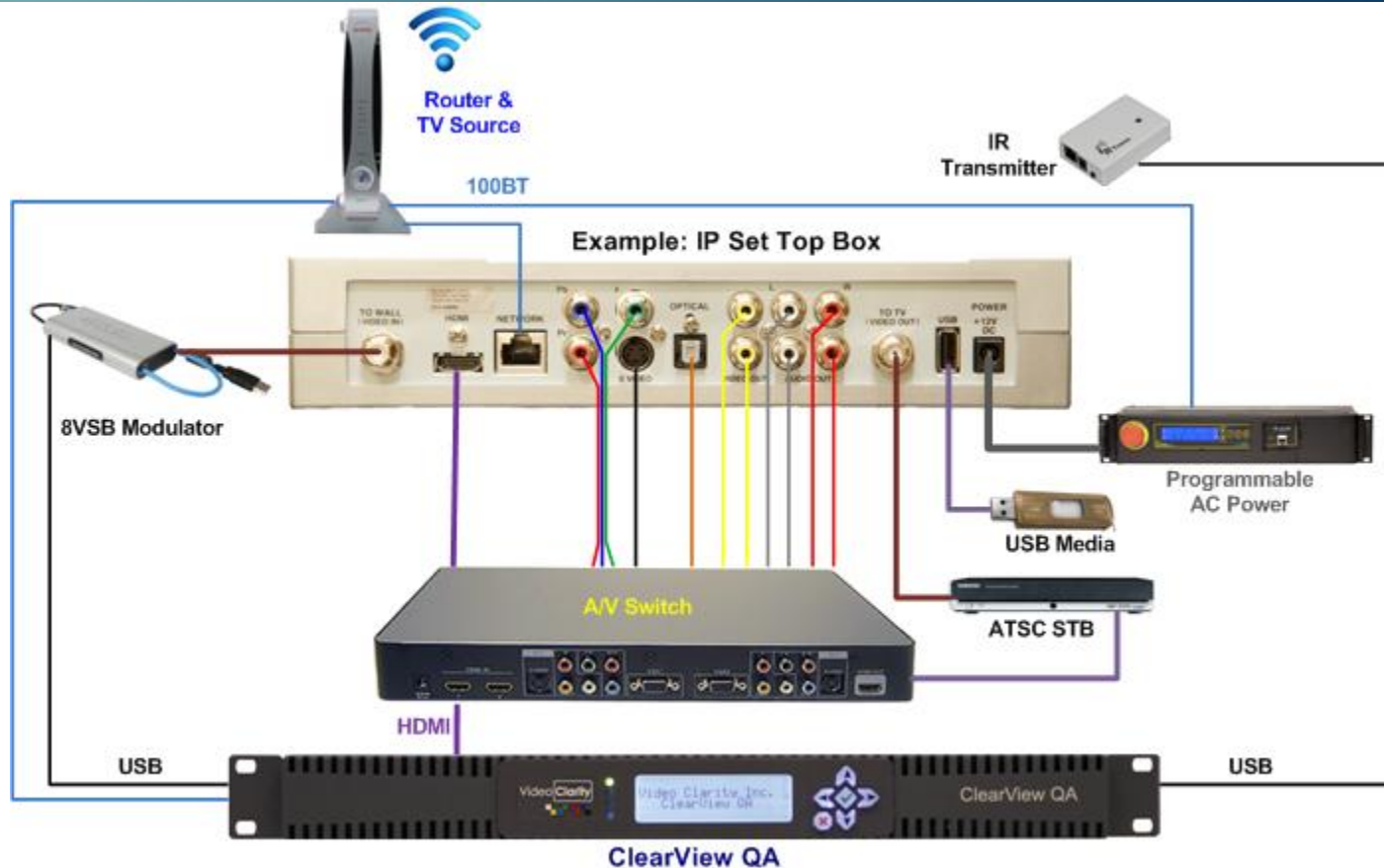   - ➢ Half the size and weight of previous Shuttle model

New at NAB 2012

➢ New ClearView IP Input

➢ Provides new product or service test workflow

  ➢ For IP network based encoder and transcode testing

  ➢ Input two IP streams or test saved reference files against directly recorded IP streams

➢ Operation Overview

  ➢ Input IP, select de-encapsulation target stream

  ➢ Real-time demultiplex-decode-import to ClearView

  ➢ Automated test routines available with system purchase
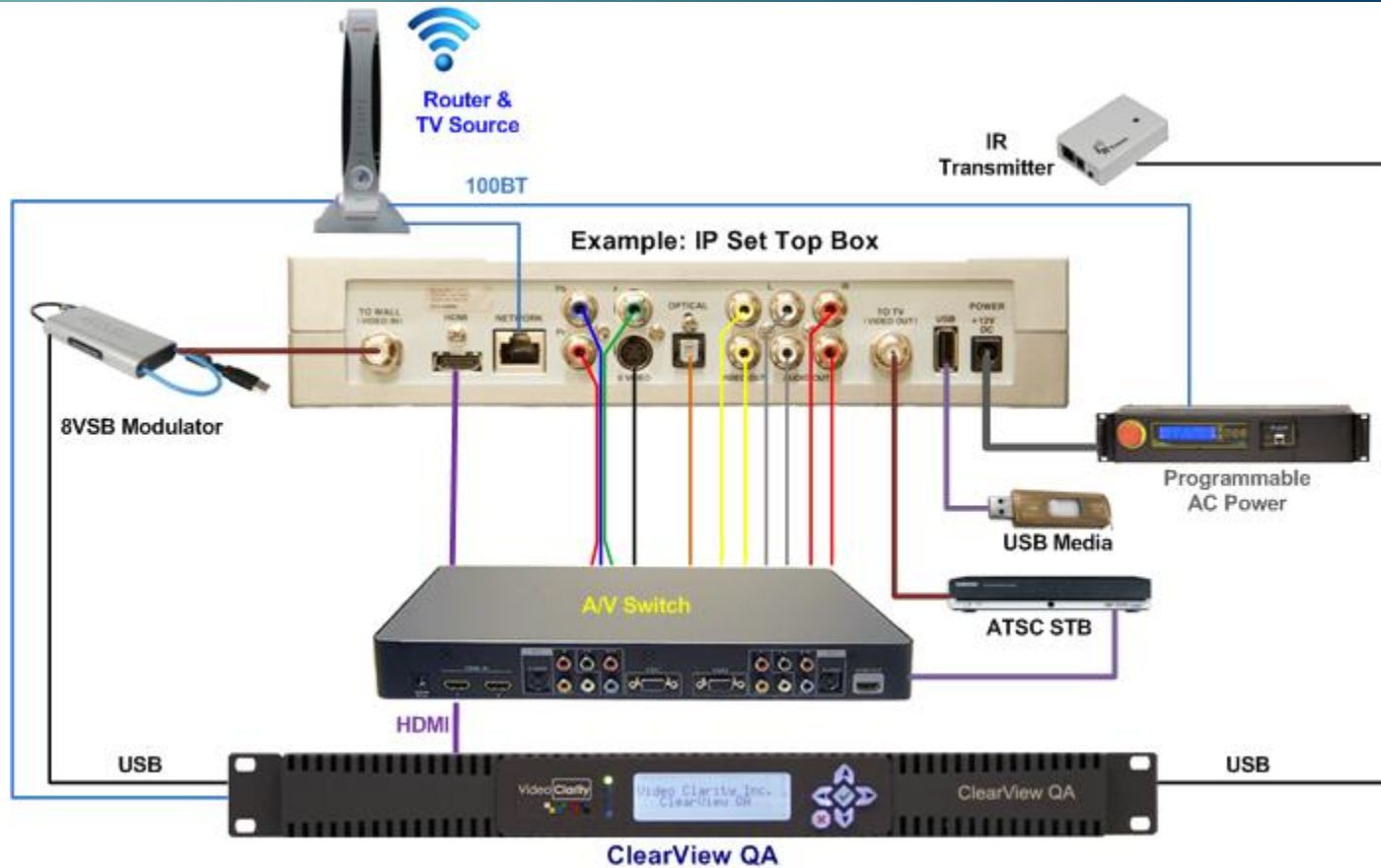
New Automated Set Top Test Suite

Example: IP Set Top Box

Testing Steps and Status Screens			
Check power-up time	Configure Hard Network	Check Component Video Outputs	Capture system info and SN
Check boot screen	Test Hard Network	Check Composite Video Outputs	Reset to Factory Defaults
Check Firmware Version	Configure Wireless Network	Check S-Video Output	Shut down device
Reset to Factory Defaults	Test Wireless Network	Check Optical Audio Output	Create Report
Check re-boot time	Receive stream from network	Check Analog Audio Outputs	Sound Pass/Fail Indicator
Check screen colors	Check A/V quality, and lip-sync.	Check RF Input	
Test all HDMI Video Resolutions	Record to DVR	Check RF Output	
	Check DVR A/V quality, lip-sync.	Check access to Media on USB drive	

New Automated Set Top Test Suite

Example: IP Set Top Box

➢ Samples provided for evaluation and customization
➢ Field proven solution available now

Thank You

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