

# FEED BACK: ATSC 3.0™

**Real time multichannel ATSC 3.0 System that performs multi-channel HEVC HDR decoding monitoring and analysis of ATSC 3.0 broadcasting streams in real time from MMT/ROUTE inputs. Outputs HDMI 2.0 and HD SDI Supports AC-4;MPEG-H 3D Audio.**



**HDR**

**ATSC 3.0**

## Features

- Multi-channel decoding and multi-point monitoring up to 4K@4CH or 2K@16CH
- Designed for live or buffered TV applications with custom content persistence requirements
- Input signal error monitoring
- SLT, SLS signaling information analysis/display
- MMT/ROUTE packet analysis/display
  - ✓ Service bit rate, media bit rate, signaling information bit rate, etc.
  - ✓ Arrival time difference of audio and video
  - ✓ Display of log information such as packet error occurrence
- Real time HEVC video decoding and monitoring
  - ✓ Bit rate, resolution, frame rate, MPU/Segment duration, etc.
- Real time AC-4/MPEG-H 3D audio decoding and monitoring
  - ✓ Bit rate, number of channels, channel configuration, MPU/Segment duration, etc.
- HDR-10, HLG support (HDMI to SDI converter option)
- Web UI support
- Inputs: MMT/ROUTE, ALP, STL
- Outputs: DVI, HDMI 1.4a/2.0, HD-SDI, 3G-SDI (optional)

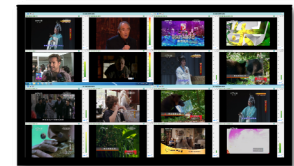
## Overview

ATSC 3.0 is here after many years of hard work by the U.S. and Korean engineers coming together to create the next generation of RF broadcasting. In order to compete with upcoming 5G cellular and broadband, the new standard had to support 4K 60p HDR UHD and much higher bit rates along with interactivity later on. Its RF modulation relies on OFDM.

Being that ATSC 3.0 is still in its early stages there are relatively few tools in existence and the ones available are expensive. With this in mind we saw a need for a relatively affordable multichannel MMT decoder-viewer and basic analyzer that allows engineers to view many MMT streams all at once. Supports stream analytics MMT/ROUTE. Please see the charts for information about our analytics.



**Old Method – Numerous Video Monitors**



**New Feed Back: ATSC 3.0 – Single PC Monitor**



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