## New Features

- Added Wowza streaming mode – supports Wowza-generated configuration files and configuration URLs
- Added support for Huawei ME909U-521, E3276, and Sprint AC341U modems
- Added RTMP backend configuration – automatically tailors encoder parameters based on platforms' preferred ingest format
- Added SEI timing option to advanced encoder settings
- Added 480i and 576i widescreen options for SDI decoders

## Changes/Improvements

- Added universal license for PC resolution support – XGA, SVGA, and VGA
- Improved accuracy of broadcast status reporting

## Bug Fixes

- Devices with static IP address configuration would not automatically reconnect to a wireless network
- IP address configuration was not preserved when switching wireless modes
- Bond did not save custom modem settings over a firmware upgrade
- 1080p25 input resolution alignment was incorrect
- HDMI encoders did not start when connected to a widescreen 480p or 576p source
- Teradek logo appeared if both paid and demo transport stream licenses were installed
- Bitrate values were displayed incorrectly on Slice and Edge
- Stability improvements for firmware upgrade process
- Fixed possible NTP DDoS vulnerability

## New Features – 7.1.12

- None

## Changes/Improvements – 7.1.12

- Renamed “Verizon Wireless Pantech 4G” modem preset to “Verizon Wireless Pantech UML – 290” to avoid confusion with the Verizon Wireless Pantech UML – 295
- When Bond is connected to a Cube, Front Panel will now say “Bond: Connected” instead of “3G/4G: Not installed”

## Bug Fixes – 7.1.12

- Disabled SEI packets as certain CDNs had problems, such as iStreamPlanet and YouTube Live
- Patched a security hole where NTP can be used in a DDoS attack
- Canon and ARRI proxy recording trigger modes were switched
- Improved Front Panel status when broadcasting manually to an authenticated RTMP server
- RTMP stream name would be truncated after an ‘=’ sign or when the text length is exactly 18 characters

## New Features – 7.1.10

- New features for Zixi Streaming:
  - Dynamic Bitrate – Encoder will adapt to the network conditions by adjusting the bitrate
  - Improved performance – Capable of streaming up to 7 Mbps
- New licensing scheme for Zixi:
  - Full version universal license to enable ZiXi on both the encoder and decoder.
  - Decoder dependent paid license to enable the “Decoder Accept Mode”. Used for point to point, encoder to decoder only

## Changes/Improvements – 7.1.10

- Quickview audio is now enabled by default

## Bug Fixes – 7.1.10

- Fixed WiFi detection of WPA – Enterprise networks for Clip
- Improved webpage of Clip
- Fixed an error where PES PCR timestamp in MPEG – TS would be malformed after PTS reaches certain value (after ~ 20 hours). Third party decoders were experiencing audio issues. Cube decoders and VLC were not affected
- Fixed issue with encoder not starting up when Deinterlacer is enabled and Quickview is disabled for SD inputs
- Fixed bonding settings not being applied in Sputnik Direct mode.

## New Features – 7.1.9

- New font for the burn-in text
- Added audio enable/disable option to Quickview stream

## Changes/Improvements – 7.1.9

- Maximum transmission rate can be set as low as 100 kbps

## Bug Fixes – 7.1.9

- Some USB modems would not connect to Cube
- Embedded audio was not present on Cube xx5 headphone output
- Sputnik remote control did not work after encoder settings were changed
- HDMI audio sample rate is now ignored when using Analog input
- AP icon hidden, was displayed on Cubes without WiFi capability
- Cube decoder headphone output was present on line input jack
- Bond 2 and Bond Pro would report 5 modem ports
- Intra Refresh was not enabled at the decoder when switching from Automatic to Manual mode
- Decoder can now connect to a TDS stream in Automatic mode

## New Features – 7.1.8

- Add iPhone/iPod default qualities for Clip

## Changes/Improvements – 7.1.8

- User must be logged in to download recordings from Cube Pro
- Recordings are displayed in a separate overlaid window

## Bug Fixes – 7.1.8

- Analog audio did not work on older model Cubes
- Fix some usability/display issues with Clip network UI
- Cube decoder front panel did not start successfully
- SD-SDI input detection did not work with recording enabled
- Burn-in text would disappear if changed without restarting the codec

## New Features – 7.1.7

- Initial Cube Pro release
    - Adds recording and media control interface
    - Adds WiFi Streaming server
    - Supports Cube Pro hardware

## Changes/Improvements – 7.1.7

- None

## Bug Fixes – 7.1.7

- Analog audio did not work on older model Cubes
- 480i/576i did not work with deinterlacer and Quickview stream disabled

## New Features – 7.1.6

- None

## Changes/Improvements – 7.1.6

- None

## Bug Fixes – 7.1.6

- Fixed audio dropout during RTMP start/stop broadcast
- Bond now auto-detects Pantech UML295 modem
- Bonding Network Interface Settings available for Link & Edge
- Fixed Web interface bug when switching Bond Modes
- Fixed analog audio issue when switching from embedded audio
- Front panel now displays WiFi channel correctly
- Fixed aspect ratio on the Quickview stream

## New Features – 7.1.5

- Added Cube – 306 model as the BASE decoder

## Changes/Improvements – 7.1.5

- Improved audio sample rate detection

## Bug Fixes – 7.1.5

- Fixed $N filename macro to work with Manual Recording
- Fixed issue with SDI video detection when transitioning from vidloss
- Removed warning when enabling closed captioning without the recording license

## New Features – 7.1.4

- Support for Edge platform
- Added Bonding Dashboard for Link and Edge
- Support for 480i and 576i HDMI input only on Cube 205, Cube 255, and Bond II - HDMI
- Bonding Mode
    - Support  for QoS in Transport Stream
    - Support for USB WiFi
    - Added Auto-Start option
- New TDS streaming (Teradek Streaming Protocol)
- Support for Closed Captioning (SDI only)
- Added an option to allow UDP packets to be shorter than others while using MPEG TS UDP
- Added advanced settings for Sputnik Direct (constant bitrate, TS info)
- Proxy recording media prioritization (SD Card > USB > Network)
- Added audio preview on headphones when using embedded audio input
- Added “$N” counter macro for proxy recording filenames (SDI only)
- Cube Decoder now supports Clip
- Cube Decoder will automatically decode the stream if there is only one Cube Encoder on the network.

## Changes/Improvements – 7.1.4

- Added Adaptive Bitrate support for RTMP
- Improved Front Panel Menu System
- Added feedback for proxy recording on Front Panel
    - Icon indicates current media selected for recording
    - Message when Cube fails to write to the SD card

- Updated Modem support for Bond, Bond II, and Bond Pro
- Cube Decoder displays output resolution on front panel if set to ‘Auto’

## Bug Fixes – 7.1.4

- Bond Pro does not show battery indicator on boot up
- Embedded audio fixed for proxy recording
- Fixed issue decoding RTP stream from Wowza when audio is present
- Fixed SD Card indicator on Bond Pro
- Fixed issue with 1080i video input while deinterlacer is disabled
- Ustream now handles additional characters (ie. “!”) in username and password
- Fixed issue when RTMP URL was not all lower case
- Fixed issue with audio and video packet ordering, which caused issues when RTMP is recorded on the video platform (ie. Livestream)
- Key frame interval is based on input resolution instead of hardcoded to 60
- Fixed an issue with Quickview cropping the output
- Fixed 1080p25 support
- IFB now functional with 576i video input
- Fixed issue when streaming 1 channel of audio to a Decoder
- Fixed framerate display on Encoder information page for interlaced resolutions
- Fixed issue with WiFi scanning on Cube 120 and Cube 220 series