

## OEM B160 Release Notes

### v5.1 - 17th December 2025

<b>codec</b>	b160_update_v5.1.tar
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#### **New Features**

- Support for data channel at 230400 baud

#### **Improvements**

- Much quicker upgrades as core codec firmware is now fixed
- FPGA version status on web page

#### **Bug Fixes**

- Presets fail to apply key missing from current config
- Build issue causing non-deterministic behaviour
- Relay (SDI/HANC) mode could randomly fail to lock

### v4.5 - 27th October 2025

<b>codec</b>	b160_update_v4.5.tar
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#### **New Features**

- Option for extracting Type 1 User Application ancillary data

#### **Improvements**

- SRT version updated to v1.5.3
- RF power status on front panel reflects attenuation

#### **Bug Fixes**

- RF attenuation accepted non-numeric values
- Camera control status page appears on front panel
- TX status information occasionally reports garbage

### v4.4.1 - 1st August 2025

codec	b160_update_v4.4.1.tar
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### Bug Fixes

- UML or Narrowband occasionally fail to start correctly

### v4.4 - 12th June 2025

codec	b160_update_v4.4.tar
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### New Features

- UML dual pedestal mode

### Improvements

- Updated metadata to include camera recording state

### v4.3.2 - 11th June 2025

codec	b160_update_v4.3.2.tar
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### Bug Fixes

- Ancillary data not passed in 1080psf format

### v4.3 - 21st March 2025

codec	b160_update_v4.3.tar
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### New Features

- Narrowband modulation bandwidths
- Domo Node Finder configuration and password reset support

### Bug Fixes

- Audio de-embedder noise with certain camera sources

### v4.2 - 19th February 2025

codec	b160_update_v4.2.tar
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## New Features

- UMLV deep interleaving mode
- Domo Node Finder discovery support

## Improvements

- Add TDT packets for more complete SI

## v4.0 - 20th September 2024

codec	b160_update_v4.0.tar
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## New Features

- New pattern source which doesn't force audio tones

## Improvements

- Sample format options now includes HFR
- Updated support information

## v3.10.1 - 20th May 2024

codec	b160_update_v3.10.1.tar
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## Bug Fixes

- CA descriptor missing when encrypting in BISS1 mode

## v3.10 - 3rd May 2024

codec	b160_update_v3.10.tar
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## New Features

- DTC style return metadata for temperature, voltage and video lock
- Additional return metadata for camera control status where available

## Improvements

- PID clashes are automatically resolved
- PIDs are clipped automatically for dual pedestal modulation
- Add EIT/CAT packets for more complete SI

## Bug Fixes

- Power output too low on early revision boards with v3.9

## v3.9 - 30th January 2024

codec	b160_update_v3.9.tar
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## Improvements

- Improved filtering on modulator output modes

## Bug Fixes

- Excess noise in UMLV shoulders

## v3.8.1 - 12th September 2023

codec	b160_update_v3.8.1.tar
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## Bug Fixes

- Most VANC too large for ancillary pass-through
- Ancillary data can cause audio packet loss

## v3.8 - 22nd August 2023

codec	b160_update_v3.8.tar
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## New Features

- DVB-T dual pedestal mode
- UMLV parameter remote commands
- Ancillary recording flag remote command

## Bug Fixes

- ISDB-T intermittently failed to output
- ISDB-T bitrate not updating on front panel changes
- Baud rate resolution on data input could cause loss of data
- Video bitrate not clipped at very low ASI rates

## v3.7.3 - 15th June 2023

codec

b160\_update\_v3.7.3.tar

### New Features

- Allow SQD sample format for slow motion camera support
- Method of setting system time

## v3.7.1 - 25th May 2023

codec

b160\_update\_v3.7.1.tar

- ⓘ Earliest supported version for 1.0-1.5GHz transmitter bands

### Improvements

- Discovery protocol more likely to respond

### Bug Fixes

- UMLV intermittently started up with errors
- UMLV PCR re-stamping not working, jitter out of specification

## v3.7 - 24th April 2023

codec

b160\_update\_v3.7.tar

### New Features

- UMLV modulation

## v3.6.3 - 14th April 2023

codec

b160\_update\_v3.6.3.tar

### New Features

- USB recording options on front panel
- Recording triggers supported with on mode

### Bug Fixes

- Camera control frequency not clipping to valid steps
- Certain conditions causing multiple recording/streaming instances to run on boot

## v3.6.2 - 21st March 2023

codec

b160\_update\_v3.6.2.tar

**i** Earliest supported version for 2.0-2.9GHz and 3.2-3.7GHz transmitter bands

### New Features

- Recording trigger and status remote commands
- PA enable status remote command

### Bug Fixes

- 12G/6G-SDI lock reliability on boot or mode change
- Can't set video formats below 720p via remote command

## v3.6 - 7th February 2023

codec

b160\_update\_v3.6.tar

### Bug Fixes

- ISDB-T interleaving broken since v3.4.2
- Quick successive TX remote commands could be missed
- Web hosted json files could be read whilst still incomplete
- TX presets rejected on load

## v3.5 - 25th January 2023

codec

b160\_update\_v3.5.tar

### Improvements

- Reduced power consumption with B170 and RF off

### Bug Fixes

- Turning RF on/off created burst of RF noise

### v3.4.3 - 21st December 2022

codec	b160_update_v3.4.3.tar
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#### New Features

- Recording triggers and metadata for RPME integration
- USB disk present remote command

### v3.4.2 - 25th November 2022

codec	b160_update_v3.4.2.tar
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#### New Features

- Power up with RF disabled in RPME integration
- Remux local return data along with SDI/HANC input in RPME integration

#### Bug Fixes

- High jitter on ASI output from MDR RX with ISDB-T modulation

### v3.4.1 - 24th November 2022

codec	b160_update_v3.4.1.tar
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#### New Features

- Remux mode for ASI relay via SDI/HANC used in RPME integration

#### Improvements

- Remux mode now has ASI lock and bitrate status on web interface and front panel
- Status on web interface for number of minutes recorded to disk

### v3.4 - 18th November 2022

codec	b160_update_v3.4.tar
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#### New Features

- ISDB-T modulation
- RS-232 Raw mode (Gigawave style packetisation)

## v3.3 - 10th November 2022

codec	b160_update_v3.3.tar
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### Improvements

- Quality of audio clock generation for analogue inputs

### Bug Fixes

- No SDI lock occasionally on boot or after video format change
- Embedded audio contained artifacts/tones from 6G/12G inputs
- Embedded audio not functioning from 3G Level B inputs

## v3.2.2 - 28th October 2022

codec	b160_update_v3.2.2.tar
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 Earliest supported version for B160 revision 2.0

### New Features

- Remote command for starting playback

## v3.2 - 25th July 2022

codec	b160_update_v3.2.tar
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### New Features

- Support for 5MHz bandwidth DVB-T
- More MPEG audio bitrates, some Layer 2 rates are more efficient in low/normal latency modes

### Improvements

- Increased audio PTS vs sample delay to give more flexibility in alignment

## v3.1.1 - 12th May 2022

codec	b160_update_v3.1.1.tar
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### Bug Fixes

- H.264 AVC encoder level set too high in HD formats for practical 3rd party support

## v3.1 - 6th April 2022

codec	b160_update_v3.1.tar
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### New Features

- Domo Broadcast Systems branding
- Remux mode allowing ASI input over RF
- IP/SRT status remote commands

### Improvements

- Allow audio -24dB reference level

### Bug Fixes

- RS-232 control not working alongside B170

## v3.0 - 21st December 2021

codec	b160_update_v3.0.tar
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 For details on v3.0 or earlier releases see old release notes document