4K UHD Receiver/Decoder

Product Release Notes
Maintenance Release v1.2.1

About Sencore

Sencore is an engineering leader in the development of high-quality signal transmission solutions for the broadcast, cable, satellite, IPTV, telecommunications, and professional audio/video markets. The company's world-class portfolio includes video delivery products, system monitoring and analysis solutions, and test and measurement equipment, all designed to support system interoperability and backed by best-in-class customer support. Sencore meets the rapidly changing needs of modern media by ensuring the efficient delivery of high-quality video from the source to the home. For more information, visit www.sencore.com.

Revision History

Date (DD/MM/YYYY)	Version	Description	Author
29/07/2022	1.0	1.1.0 Features Release	Mills
17/02/2023	1.1	1.1.2 Maintenance Release	Mills
13/01/2024	1.2	1.1.4 Maintenance Release	Mills
09/02/2022	1.3	1.2.0 Features Release	Mills
01/03/2023	1.4	1.22.1 Maintenance Release	Mills

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Maintenance Release 1.2.1

The 1.2.1 release is a maintenance release for the Impulse400D. Version 1.2.1 obsoletes the previous release versions and any beta software builds that may have been previously provided. This software release adds several features and resolves a number of issues reported during product development and customer evaluation testing.

> ***Note:*** *New unlicensed features that were added will automatically show up and be available in the user interfaces. No additional licenses need to be purchased to support these features. New hardware support requires the purchase of the new hardware options in order to gain functionality.*

What's New in v1.2.1

- New Features: Dual audio
- Support receiving DVBS2 multistream signal

Update Information

Current Release File Names:	Impulse400D_1.2.1.tar,
Release Number:	1.2.1
Release Branch:	1.2.x

Resolved Issues

Impulse400D Issues:

IMPULSE400-624	-	DHCP fails on TSIP 1 and TSIP 2.
IMPULSE400-625	-	Memory leaking on dual audio.
IMPULSE400-525	-	WebGUI would have the potential to be abnormal after long term using.

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Feature Release 1.2.0

The 1.2.0 release is a feature release for the Impulse400D. Version 1.2.0 obsoletes the previous release versions and any beta software builds that may have been previously provided. This software release adds several features and resolves a number of issues reported during product development and customer evaluation testing.

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What's New in v1.2.0

- New Features: Dual audio
- Support receiving DVBS2 multistream signal

Update Information

Current Release File Names:	Impulse400D_1.2.0.tar,
Release Number:	1.2.0
Release Branch:	1.2.x

Resolved Issues

Impulse400D Issues:

IMPULSE400-520	-	UI gets unresponsive.
IMPULSE400-521	-	Packet error rate is not presenting in exponential format.
IMPULSE400-525	-	Front panel will lock up when user changes the DVBS2 setting.
IMPULSE400-549	-	Modify the audio volume, only the first audio channel would be applied the setting.
IMPULSE400-556	-	The second audio channel has no audio when decoding the single audio stream.
IMPULSE400-557	-	The lip sync of the second audio channel could not fit the requirement when the first audio channel is abnormal.
IMPULSE400-574	-	HLS input to MPEG/IP has CC errors on the output and ETR 290 errors.

IMPULSE400-607   -   The audio parameters take no effect on WebGUI.

IMPULSE400-608   -   Reboot has the potential to cause the lip sync becomes larger.

IMPULSE400-618   -   The unit could not acquire the stable value while testing the genlock stream.

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Maintenance Release 1.1.4

The 1.1.4 release is a maintenance release for the Impulse400D. Version 1.1.4 obsoletes the previous release versions and any beta software builds that may have been previously provided. This software release adds several features and resolves a number of issues reported during product development and customer evaluation testing.

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What's New in v1.1.4

- New Features: GPI, Dual audio.

Update Information

Current Release File Names:	Impulse400D_1.1.4.tar,
Release Number:	1.1.4
Release Branch:	1.1.x

Resolved Issues

Impulse400D Issues:

IMPULSE400-511	-	Swapping between two special streams will cause the unit failed to decode the program.
IMPULSE400-531	-	The ASI output signal is not restored after re-locking input T2MI signal.
IMPULSE400-547	-	Decode of the specific HLS stream is choppy.
IMPULSE400-553	-	The unit is unable to recognize aspect ratio, resulting in SDI not being able to output normally.
IMPULSE400-575	-	Service selection mode acquires unexpected services when descrambling.
IMPULSE400-581	-	The ffmpeg decoding mode cannot decode the DRA format stream. Switching back to the universal decoding mode will still result in HEVC format decoding failure.
IMPULSE400-589	-	The SRT connection status is incorrect.

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IMPULSE400-590   -   The input source resolution recognition p frames recognized as i frames.

IMPULSE400-591   -   Rebooting may cause SDI decoding to blur, while HDMI decoding is normal in some special streams.

IMPULSE400-602   -   The decoding feature displays dual audio, using WFM8300 to view only one set of sound columns

Maintenance Release 1.1.2

The 1.1.2 release is a maintenance release for the Impulse400D. Version 1.1.2 obsoletes the previous release versions and any beta software builds that may have been previously provided. This software release adds several features and resolves a number of issues reported during product development and customer evaluation testing.

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What's New in v1.1.2

- Input tuner: 8VSB
- Additional Features: Decode parameters, Logs (Alarm, Event).
- General Features: H.265 CC subtitle.
- New Features: BISS descramble, SNMP.

Update Information

Current Release File Names: Impulse400D_1.1.2.tar,
Release Number: 1.1.2
Release Branch: 1.1.x

Resolved Issues

Impulse400D Issues:

IMPULSE400-435   -   The web management has lagging phenomenon.
IMPULSE400-475   -   Optimize the input behavior.
IMPULSE400-452   -   Some characters in CC subtitle are lost.
IMPULSE400-463   -   HLS input cannot be enabled at front panel.
IMPULSE400-448   -   The CC are invalid with particular stream.

IMPULSE400-469   -   The last CC subtitle would remain at the video after switch different

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		CC stream to output.
IMPULSE400-470	-	No subtitles for particular streams.
IMPULSE400-474	-	SNMP object name is incorrect and SNMP network management has invalid entry options.
IMPULSE400-488	-	The 8VSB sometimes couldn't lock the signal after changing the frequency.

Feature Release 1.1.0

The 1.1.0 release is a feature release for the Impulse400D. Version 1.1.0 obsoletes the previous release versions and any beta software builds that may have been previously provided. This software release adds several features and resolves a number of issues reported during product development and customer evaluation testing.

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What's New in v1.1.0

- HEVC/4K decoding
- Support satellite input to 110Mbps .
- 2 channels multiplexing.
- IGMP V3 for UDP input.

Update Information

Current Release File Names:	Impulse400D_1.1.0.tar,
Release Number:	1.1.0
Release Branch:	1.1.x

Resolved Issues

Impulse400D Issues:

IMPULSE400-205	-	The HDMI and SDI would stuck after using the CI descramble.
IMPULSE400-260	-	The decode delay is more than 1s.
IMPULSE400-262	-	Tuner need to re-lock the signal over 1s.
IMPULSE400-323	-	When no signal locked or no program is chosen for decoding, the last decoding state still remains.

IMPULSE400-328	-	The status bar won't show the program name when receive the ATSC stream.
IMPULSE400-413	-	Disable the backup input, the front panel still exist the backup input status.
IMPULSE400-316	-	High bitrate jitter and lost package for particular streams.
IMPULSE400-436	-	The Web PID statistics are incorrect.
IMPULSE400-474	-	Switching the same format source will cause the frame rate identification exceptions.