T2 4K Series

DIGITAL RECORDER / PLAYER

Software version 3.5.0.2744

Release Notes
July 2023

COPY AND TRADEMARK NOTICE

TERMS AND CONDITIONS

Applicability

This build of T2 4K applies to the following products:

- T2 4K Elite, Pro, Express (A)
- T2 4K Elite, Pro, Express
- T2 4K Elite, Pro, Express Plus
- T2 4K Elite, Pro, Express with 12G I/O card

New Features

This update provides the following additional features:

- Support to modify GPI output trigger time window

Update History

This update fixes / improves the following issues:

- Audio dropouts during monitoring ingested audio if CPU load is high

- Video stutters while variable speed playback 4K clip that has alpha channel

- Analog audio output is delayed - unsynchronized with SDI embedded audio (SFDC00855117)

- Audio crackling noise occurs when stopping playback a playlist (SFDC00857647)

- If played audio ends within one second after "Stop playback" operation, audio dropouts

- Incorrect start TC is set if the value is modified at In point of loaded clip (SFDC00860155)

- Audio crackling noise occurs when loading /unloading a clip or playlist (SFDC00858509)

APPENDIX

Supported function in multiple channel video recording

Supported function depends on recording channel. Several functions are only supported in R1 channel

Function	3 in 0 out		
	2 in 1 out		
	R1	R2	R3
Supported codec for recording	Grass Valley HQX AVI or MXF *Other format is not supported		
VTR mode	Yes	No	No
Schedule recording	Yes	No	No
E to E	Yes	No	-
Automatic loading growing clip to playout channel	Yes	No	-
Automatic loading sub-clip to playout channel	Yes	No	-

AMP channel mapping

T2 supports AMP / BVW remote command for all channels. Channel mapping between AMP and T2 has been changed due to supporting multiple channels ingest

AMP channel	T2 channel
vtr_r1	R1
vtr_r2	R2
vtr_r3	R3
vtr_p1	P1
vtr_p2	P2
vtr_p3	P3

Video monitor output (HD / SD mode)

You can assign monitor output in I/O mode settings:

- T2 4K series: Any channel can be assigned to the monitor output
- T2 4K Plus series: Below are assignable matrix

2 in 1 out mode

SDI port#	Type	Channel	Assignable channel
SDI1	Recorder	R1	-
SDI2	Recorder	R2	-
SDI3	Monitor Output	-	R1, P1

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SDI4	Monitor Output	-	R1, P1
SDI5	Player	P1	-
SDI6	Monitor Output	-	R1, R2, P1
SDI7	Reserved	-	-
SDI8	Reserved	-	-

3 in 0 out mode

SDI port#	Type	Channel	Assignable channel
SDI1	Recorder	R1	-
SDI2	Recorder	R2	-
SDI3	Recorder	R3	-
SDI4	Reserved	-	-
SDI5	Monitor Output	-	R1
SDI6	Monitor Output	-	R1 or R2
SDI7	Monitor Output	-	R1 or R3
SDI8	Reserved	-	-

Assignable I/O channel for NDI

Assignable channel depends on selected format

Format	Assignable channel	NOTE
UHD	Either Input or Output	Fill / Key mode cannot be used
HD / SD	1x Input 1x Output	T2 allows simultaneously use of both channels
	2x Output	In should be turned off in IP mode settings

Notes on using VDCP

1. T2 starts (including restarting) in connectionless mode. After starting (restarting) the T2 or connecting a controller, follow below steps:
   1) Run Open command with the port number (input or output) to open the player or recorder from the terminal.
   2) Run Select Port command by using opened port number to select player or recorder.
   3) Remote control selected channel.
   4) Close the port by running Close Port command by using opened port number.
2. Delay of the transport command (Play, Stop or etc.) from sending to execution may be vary.
3. Below category of command are not supported
   - DEFERRED (TIMELINE) COMMAND
   - MACRO COMMAND
   - ARCHIVE COMMAND

XAVC / AVC Ultra files on multiple channel playback

Multiple channel playback (up to three channels) supports below formats :

XAVC HD Intra series

Codec	Container	Resolution	Frame rate / scan type	NOTE
XAVC HD Intra Class 100	MXF	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	Only allows 1 Channel playback for 59.94p and 50p
		1280 x 720	59.94p, 50p	-
XAVC HD Intra Class 50		1440 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	-

XAVC HD LongG series

Codec	Container	Resolution	Frame rate / scan type	NOTE
XAVC HD Long 50	MXF	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	-
		1280 x 720	59.94p, 50p	-
XAVC HD Long 35		1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	-
XAVC HD Long 25		1920 x 1080	59.94i, 50i	-

AVC Intra series

Codec	Container	Resolution	Frame rate / scan type	NOTE
AVC Intra 200	MXF	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	Only allows 1 Channel playback for 59.94p and 50p
		1280 x 720	59.94p, 50p	-

AVC Untra series

Codec	Container	Resolution	Frame rate / scan type	NOTE
AVC LongG 50	MXF	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	-
		1280 x 720	59.94p, 50p	-
AVC LongG 25		1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	Only allows 1 Channel playback for 59.94p and 50p
		1280 x 720	59.94p, 50p	-
AVC LongG 12		1920 x 1080	59.94i, 50i	-
		1280 x 720	59.94p, 50p	-
AVC LongG 6		1920 x 1080	59.94i, 50i	-
		1280 x 720	59.94p, 50p	-