

# T2 4K Series

**DIGITAL RECORDER / PLAYER** 

Software version 3.5.0.2624

Release Notes April 2023

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# **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 NDI for ingest and playback
- Support Video Disk Control Protocol (VDCP) for remote control of rec and play channel
- · Preserve and handle color space information on import, playback and export
- Adding several type of XAVC files that is allowed playback in multiple channels

# **Update History**

This update fixes / improves the following issues:

- Previously selected FTP location is not preserved
- Incorrect footage is output if speed is frequently changed while playback or scrubbing
- Video stutters while variable speed playback 4K clip that has alpha channel



# **APPENDIX**

## Supported function in multiple channel video recording

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

	3 in 0 out			
Function	2 in 1 out			
	R1	R2	R3	
Supported codec for recording		alley HQX AVI of ormat is not sup		
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#	Туре	Channel	Assignable channel
SDI1	Recorder	R1	-
SDI2	Recorder	R2	-
SDI3	Monitor Output	-	R1, P1



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

#### 3 in 0 out mode

SDI port#	Туре	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
HD / SD	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		1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	Only allows 1 Channel playback for 59.94p and 50p
100	MXF	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		1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	-
Long 50		1280 x 720	59.94p, 50p	-
XAVC HD Long 35	MXF	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	MXF	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	Only allows 1 Channel playback for 59.94p and 50p
200		1280 x 720	59.94p, 50p	-

#### **AVC Untra series**

Codec	Container	Resolution	Frame rate / scan type	NOTE
AVC	AVC	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	-
LongG 50		1280 x 720	59.94p, 50p	-
AVC	AVC LongG 25 MXF AVC LongG 12	1920 x 1080	59.94i, 50i, 29.97p, 25p, 23.98p	Only allows 1 Channel playback for 59.94p and 50p
Longo 20		1280 x 720	59.94p, 50p	-
AVC		1920 x 1080	59.94i, 50i	-
LongG 12		1280 x 720	59.94p, 50p	-
AVC LongG 6		1920 x 1080	59.94i, 50i	-
		1280 x 720	59.94p, 50p	-

