

# T2 Model Comparison

**Rev 8 (as of July 8, 2020)**

		T2 4K Series						T2 Series 3			
		Elite Plus	Elite	Pro Plus	Pro	Express Plus	Express	Elite 3	Pro 3	Express 3	
		www.grassvalley.com/products/t2_4k_series/						www.grassvalley.com/products/t2_series_3/			
		4K/HD Recorder/Players						Digital Recorder/Players			
		KTR4-ELT-CV00 KTR4-IO-CV80- KIT	KTR4-ELT-CV40	KTR4-PRO-CV00 KTR4-IO-CV80- KIT	KTR4-PRO-CV40	KTR4-EXP-CV00 KTR4-IO-CV80- KIT	KTR4-EXP-CV40	iDDR2-ELITE-3	iDDR2-PRO-3	iDDR2- EXPRESS-3	
<b>Features</b>		now available	now available	now available	now available	now available	now available	end of production	end of production	end of production	
<b>Recorder/Player</b>	4K DCI/4K UHD 59.94p/50p support	✓	✓	✓	✓	—	—	—	—	—	
	4K DCI/4K UHD 29.97p/25p support	✓	✓	✓	✓	✓	✓	—	—	—	
	Quad SDI – SQD (Square Division)	✓	✓	✓	✓	✓	✓	—	—	—	
	Quad SDI – 2SI (2 Sample Interleave)*1	✓	✓	✓	✓	—	—	—	—	—	
	3G-SDI (Level A/B)	✓	✓	✓	✓	—	—	—	—	—	
	HD 1080 59.94p/50p support	✓	✓	✓	✓	—	—	—	—	—	
	HD 1080 59.94i/50i support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	HD 1080 29.97p/25p support	✓	✓	✓	✓	✓	✓	—	—	—	
	HD 1080 24p/23.98p support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	HD 1080 24PsF/23.98PsF support*2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	YUV 4:2:2 10-bit depth for video recording*2	✓	✓	✓	✓	✓	✓	—	—	—	
	In/Out (4K) – AVI/MXF (Grass Valley HQX)	[4K] 1 in 0 out [4K] 0 in 1 out	[4K] 1 in 0 out [4K] 0 in 1 out	[4K] 1 in 0 out [4K] 0 in 1 out	[4K] 1 in 0 out [4K] 0 in 1 out	[4K] 1 in 0 out [4K] 0 in 1 out	[4K] 1 in 0 out [4K] 0 in 1 out	[4K] 1 in 0 out [4K] 0 in 1 out	—	—	—
	In/Out (4K) – MOV/MXF (Apple ProRes 422)*2	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	—	—	—
	In/Out (4K) – MXF (Avid DNxHR - HQ/SQ/LB)*3	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	[4K] 0 in 1 out	—	—	—
	In/Out (HD) – AVI/MXF (Grass Valley HQX)	[HD] 1 in 2 out [HD] 0 in 3 out	[HD] 1 in 2 out [HD] 0 in 3 out	[HD] 1 in 2 out [HD] 0 in 3 out	[HD] 1 in 2 out [HD] 0 in 3 out	[HD] 1 in 2 out [HD] 0 in 3 out	[HD] 1 in 2 out [HD] 0 in 3 out	[HD] 1 in 2 out [HD] 0 in 3 out	—	—	—
	In/Out (HD) – AVI (Grass Valley HQ)	—	—	—	—	—	—	—	[HD] 1 in 2 out	[HD] 1 in 2 out	[HD] 1 in 2 out
In/Out (HD) – MXF (XDCAM)	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 2 out	[HD] 1 in 1 out [HD] 0 in 2 out	[HD] 1 in 1 out [HD] 0 in 2 out	[HD] 1 in 1 out [HD] 0 in 2 out	[HD] 1 in 1 out [HD] 0 in 2 out	
In/Out (HD) – MXF (Apple ProRes 422)*2	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 2 out	[HD] 1 in 1 out [HD] 0 in 2 out	—	—	—	

		T2 4K Series					T2 Series 3			
		Elite Plus	Elite	Pro Plus	Pro	Express Plus	Express	Elite 3	Pro 3	Express 3
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		4K/HD Recorder/Players					Digital Recorder/Players			
		KTR4-ELT-CV00 KTR4-IO-CV80-KIT	KTR4-ELT-CV40	KTR4-PRO-CV00 KTR4-IO-CV80-KIT	KTR4-PRO-CV40	KTR4-EXP-CV00 KTR4-IO-CV80-KIT	KTR4-EXP-CV40	iDDR2-ELITE-3	iDDR2-PRO-3	iDDR2-EXPRESS-3
<b>Features</b>		now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
<b>Recorder/Player</b>	In/Out (HD) – MOV (Apple ProRes 422)*2	[HD] 0 in 3 out	[HD] 0 in 3 out	[HD] 0 in 3 out	[HD] 0 in 3 out	[HD] 0 in 2 out	[HD] 0 in 2 out	—	—	—
	In/Out (HD) – MXF (Avid DNxHD)*2	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 3 out	[HD] 1 in 1 out [HD] 0 in 2 out	[HD] 1 in 1 out [HD] 0 in 2 out	—	—	—
	HD 1 ingest and HD 2 playback support (simultaneously)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HD 3 playback support*1	✓	✓	✓	✓	—	—	—	—	—
	Scheduled recording	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Chasing playback while ingesting (HD/SD)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Direct ingest to external media/storage device	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ancillary data ingest and pass through*1	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Batch capture and external VTR control	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HD 2-channel synchronized playback support	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4K key/fill playback support*3	✓	—	✓	—	✓	—	—	—	—
	HD key/fill playback support	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cross conversion between 720 & 1080	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Loop playback	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VAR speed playback	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Playlist playback (trim, transition, end action, place holder, GPI trigger, timeline)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E-to-E (Electric to Electric) playback support*2	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4K video monitor output*2	✓	—	✓	—	✓	—	—	—	—
	HD video monitor output*2	✓	✓	✓	✓	✓	✓	Composite	Composite	Composite
On-screen display (burn-in)*2	Timecode Audio level meter	Timecode Audio level meter	Timecode Audio level meter	Timecode Audio level meter	Timecode Audio level meter	Timecode Audio level meter	Timecode	Timecode	Timecode	
Marker support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Audio output using ASIO audio device (USB audio interface, Dante Virtual Soundcard)*1	✓	✓	✓	✓	✓	✓	—	—	—	

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<b>Features</b>		now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
<b>Import/Export</b>	Watch folder transfers	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FTP transfers	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Transcode support – to AVI (Grass Valley HQX)	✓	✓	✓	✓	✓	✓	—	—	—
	Transcode support – to AVI (Grass Valley HQ)	—	—	—	—	—	—	✓	✓	✓
	Transcode support – to MXF (XDCAM) from AVI	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Transcode support – to MXF (Apple ProRes 422) from AVI*2	✓	✓	✓	✓	✓	✓	—	—	—
	Transcode support – to MXF (Avid DNxHR – HQ/SQ/LB) from AVI*3	✓	✓	✓	✓	✓	✓	—	—	—
	Transcode support – to MXF (Avid DNxHD) from AVI	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Editing</b>	Direct access to T2 data storage via CIFS	✓	✓	—	—	—	—	✓	—	—
	Export a growing AVI file via CIFS	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Export a growing MXF file via FTP	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Edit a growing file with EDIUS	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Remote</b>	Timecode chase playback with LTC input	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Remote control via GPI	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Remote control via RS-422 (Sony 9-pin)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Remote control via Network (AMP)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Constant delay playback (start/stop) via GPI/RS-422	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Misc.</b>	Workstation mode	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Keyboard shortcuts and mouse customization on workstation	✓	✓	✓	✓	✓	✓	✓	✓	✓
	T2-to-T2 data synchronization	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Maintenance tools	✓	✓	✓	✓	✓	✓	✓	✓	✓

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	4K/HD Recorder/Players						Digital Recorder/Players		
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Hardware	now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
Front Panel									
7-inch Touchscreen LCD	✓	✓	✓	✓	✓	✓	✓	✓	✓
Jog/Shuttle	✓	✓	✓	✓	✓	✓	✓	✓	✓
SD, SD(UHS-II/microP2), CF, SxS, 2.5-inch SSD slot	✓	✓	—	—	—	—	✓	—	—
Power supply unit									
Redundant	✓	✓	—	—	—	—	—	—	—
Single	—	—	✓	✓	✓	✓	✓	✓	✓
System storage									
M.2 SSD (64 GB)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data storage									
SSD RAID-0	SSD 2 TB (1 TB x2)	SSD 2 TB (1 TB x2)	—	—	—	—	SSD 2 TB (1 TB x2)	—	—
HDD RAID-10	—	—	—	—	—	—	—	HDD 1 TB (500 GB x4)	—
HDD RAID-0	—	—	HDD 2 TB (1 TB x2)	HDD 2 TB (1 TB x2)	HDD 2 TB (1 TB x2)	HDD 2 TB (1 TB x2)	—	—	HDD 1 TB (500 GB x2)
SSD RAID-0	SSD 2 TB (1 TB x2)	SSD 2 TB (1 TB x2)	—	—	—	—	SSD 2 TB (1 TB x2)	—	—
HDD RAID-10	—	—	—	—	—	—	—	HDD 1 TB (500 GB x4)	—
HDD RAID-0	—	—	HDD 2 TB (1 TB x2)	HDD 2 TB (1 TB x2)	HDD 2 TB (1 TB x2)	HDD 2 TB (1 TB x2)	—	—	HDD 1 TB (500 GB x2)

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<b>Hardware</b>	now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
<b>Video</b>									
<b>3G/HD-SDI input/output*4</b>	3G-SDI x8	3G-SDI x4	3G-SDI x8	3G-SDI x4	HD-SDI x8	HD-SDI x4	—	—	—
<b>SDI input</b>	—	—	—	—	—	—	1	1	1
<b>SDI output</b>	—	—	—	—	—	—	2	2	2
<b>DVI-I/Component input</b>	—	—	—	—	—	—	1	1	1
<b>DVI-I/Component output</b>	—	—	—	—	—	—	2	2	2
<b>Composite input</b>	—	—	—	—	—	—	1	1	1
<b>Composite output</b>	—	—	—	—	—	—	2	2	2
<b>SDI through output for SDI input</b>	—	—	—	—	—	—	1	1	1
<b>Monitor output (composite)</b>	—	—	—	—	—	—	2	2	2
<b>Audio</b>									
<b>AES/EBU input</b>	—	—	—	—	—	—	1	1	1
<b>AES/EBU output</b>	—	—	—	—	—	—	2	2	2
<b>XLR (Balanced analog audio) input</b>	—	—	—	—	—	—	2	2	2
<b>XLR (Balanced analog audio) output</b>	—	—	—	—	—	—	4	4	4
<b>Headphone jack for audio monitor (front)</b>	1	1	1	1	1	1	1	1	1
<b>Headphone jack for audio monitor (rear)</b>	—	—	—	—	—	—	1	1	1
<b>Audio monitor output (rear)</b>	2*5	2*5	2*5	2*5	2*5	2*5	—	—	—

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<b>Hardware</b>	now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
<b>Timecode</b>									
<b>LTC input</b>	1	1	1	1	1	1	1	1	1
<b>LTC output</b>	2*5	2*5	2*5	2*5	2*5	2*5	2	2	2
<b>Reference</b>									
<b>Input</b>	1	1	1	1	1	1	1	1	1
<b>Output (loop)</b>	—	—	—	—	—	—	1	1	1
<b>GPI</b>									
<b>GPI input/output</b>	D-Sub 25-pin (8 in 8 out)	D-Sub 25-pin (8 in 8 out)	D-Sub 25-pin (8 in 8 out)	D-Sub 25-pin (8 in 8 out)	D-Sub 25-pin (8 in 8 out)	D-Sub 25-pin (8 in 8 out)	D-Sub 15-pin (6 in 6 out)	D-Sub 15-pin (6 in 6 out)	D-Sub 15-pin (6 in 6 out)
<b>Remote</b>									
<b>RS-422 (D-Sub 9-pin)</b>	4 (in x3, out x1)	4 (in x3, out x1)	4 (in x3, out x1)	4 (in x3, out x1)	4 (in x3, out x1)	4 (in x3, out x1)	3 (in x2, in/out x1)	3 (in x2, in/out x1)	3 (in x2, in/out x1)
<b>LAN</b>									
<b>1 Gb Ethernet</b>	2	2	2	2	2	2	2	2	2
<b>USB</b>									
<b>USB 3.0 (front)</b>	2	2	2	2	2	2	2	2	2
<b>USB 3.0 (rear)</b>	4	4	4	4	4	4	4	4	4
<b>USB 2.0 (rear)</b>	4	4	4	4	4	4	4	4	4
<b>PC monitor*6</b>									
<b>DisplayPort</b>	1	1	1	1	1	1	1	1	<b>1</b>
<b>DVI-D</b>	1	1	1	1	1	1	1	1	<b>1</b>
<b>Power</b>									
<b>Power (rated input voltage, frequency)</b>	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz	AC 100 – 240V, 50/60 Hz
<b>Electric power consumption</b>	Up to 200W	Up to 200W	Up to 200W	Up to 200W	Up to 200W	Up to 200W	Up to 250W	Up to 250W	Up to 250W

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<b>Hardware</b>	now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
<b>Environmental</b>									
<b>Operating temperature range</b>	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)	5°C to 35°C (41°F to 95°F)
<b>Operating relative humidity</b>	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)	Max. 80% (non-condensing)
<b>Dimensions (W x D x H)</b>	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)	430 x 550 x 140 mm (16.9 x 21.6 x 5.5 in.)
<b>Weight</b>	16.5 kg (36.4 lbs.)	16.5 kg (36.4 lbs.)	16.5 kg (36.4 lbs.)	16.5 kg (36.4 lbs.)	16.5 kg (36.4 lbs.)	16.5 kg (36.4 lbs.)	15 kg (33 lbs.)	15 kg (33 lbs.)	15 kg (33 lbs.)

\*1 Firmware update to v3.1.0 or later is required.

\*2 Firmware update to v3.2.0 or later is required.

\*3 Firmware update to v3.3.0 or later is required.

\*4 Video input and video output are shared. (Some of these can also be assigned for video monitor outputs.)

\*5 Audio monitor output and timecode output are shared.

\*6 DisplayPort and DVI-D cannot be used at the same time.



CG-PUB-2-0692C-EN



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