

T2 Model Comparison

Rev 10 (as of April 1, 2021)

		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				
		KTR4A-ELT-CV00 KTR4-IO-CV80- KIT	KTR4A-ELT-CV40	KTR4A-PRO-CV00 KTR4-IO-CV80- KIT	KTR4A-PRO- CV40	KTR4A-EXP-CV00 KTR4-IO-CV80- KIT	KTR4A-EXP- CV40	iDDR2-ELITE-3	iDDR2-PRO-3	iDDR2- EXPRESS-3	
Features		now available	now available	now available	now available	now available	now available	end of production	end of production	end of production	
Recorder/Player	4K DCI/4K UHD 60p/59.94p/50p support	✓	✓	✓	✓	—	—	—	—	—	
	4K DCI/4K UHD 30p/29.97p/25p support	✓	✓	✓	✓	✓	✓	—	—	—	
	Quad SDI – SQD (Square Division)	✓	✓	✓	✓	✓	✓	—	—	—	
	Quad SDI – 2SI (2 Sample Interleave)	✓	✓	✓	✓	—	—	—	—	—	
	3G-SDI (Level A/B)	✓	✓	✓	✓	—	—	—	—	—	
	HD 1080 60p/59.94p/50p support	✓	✓	✓	✓	—	—	—	—	—	
	HD 1080 59.94i/50i support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	HD 1080 30p/29.97p/25p support	✓	✓	✓	✓	✓	✓	—	—	—	
	HD 1080 24p/23.98p support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	HD 1080 24PsF/23.98PsF support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	YUV 4:2:2 10-bit depth for video recording	✓	✓	✓	✓	✓	✓	—	—	—	
	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)	[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)	[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] 3in 0out [HD] 2in 1out [HD] 1in 2out [HD] 0in 3out	[HD] 3in 0out [HD] 2in 1out [HD] 1in 2out [HD] 0in 3out	[HD] 3in 0out [HD] 2in 1out [HD] 1in 2out [HD] 0in 3out	[HD] 3in 0out [HD] 2in 1out [HD] 1in 2out [HD] 0in 3out	[HD] 3in 0out [HD] 2in 1out [HD] 1in 2out [HD] 0in 3out	[HD] 2in 1out [HD] 1in 2out	[HD] 2in 1out [HD] 1in 2out	—	—	—
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 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 2 out	[HD] 1 in 2 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)	[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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Features		now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
Recorder/Player	In/Out (HD) – MOV (Apple ProRes 422)	[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)	[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	✓	✓	✓	✓	—	—	—	—	—
	Scheduled recording	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Chasing playback while ingesting (HD/SD)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Direct ingest to external media/storage device	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ancillary data ingest and pass through	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Batch capture and external VTR control	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HD 2-channel synchronized playback support	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4K key/fill playback support	✓	—	✓	—	✓	—	—	—	—
	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)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Transition effect (cross dissolve) when manually switching to another clip event in a playlist	✓	✓	✓	✓	✓	✓	—	—	—
	E-to-E (Electric to Electric) playback support	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4K video monitor output	✓	—	✓	—	✓	—	—	—	—
	HD video monitor output	✓	✓	✓	✓	✓	✓	Composite	Composite	Composite
On-screen display (burn-in)	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 Audio level meter	Timecode	Timecode	Timecode
Marker support	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Audio input/output using ASIO audio device (USB audio interface, Dante Virtual Soundcard)	✓	✓	✓	✓	✓	✓	—	—	—	

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Features		now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
Import/Export	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	✓	✓	✓	✓	✓	✓	—	—	—
	Transcode support – to MXF (Avid DNxHR – HQ/SQ/LB) from AVI	✓	✓	✓	✓	✓	✓	—	—	—
	Transcode support – to MXF (Avid DNxHD) from AVI	✓	✓	✓	✓	✓	✓	✓	✓	✓
Editing	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	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remote	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	✓	✓	✓	✓	✓	✓	✓	✓	✓
Misc.	Workstation mode	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Keyboard shortcuts and mouse customization on workstation	✓	✓	✓	✓	✓	✓	✓	✓	✓
	T2-to-T2 data synchronization	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Monitoring using watchdog timer (Hardware/Software)	✓	✓	✓	✓	✓	✓	—	—	—
	Maintenance tools	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

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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
Timecode									
LTC input	1	1	1	1	1	1	1	1	1
LTC output	2*2	2*2	2*2	2*2	2*2	2*2	2	2	2
Reference									
Input	1	1	1	1	1	1	1	1	1
Output (loop)	—	—	—	—	—	—	1	1	1
GPI									
GPI input/output	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)
Remote									
RS-422 (D-Sub 9-pin)	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)
LAN									
1 Gb Ethernet	2	2	2	2	2	2	2	2	2
USB									
USB 3.0 (front)	2	2	2	2	2	2	2	2	2
USB 3.0 (rear)	4	4	4	4	4	4	4	4	4
USB 2.0 (rear)	4	4	4	4	4	4	4	4	4
PC monitor*3									
DisplayPort	1	1	1	1	1	1	1	1	1
DVI-D	1	1	1	1	1	1	1	1	1
Power									
Power (rated input voltage, frequency)	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
Electric power consumption	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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Hardware	now available	now available	now available	now available	now available	now available	end of production	end of production	end of production
Environmental									
Operating temperature range	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)
Operating relative humidity	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)
Dimensions (W x D x H)	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.)
Weight	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 Video input and video output are shared. (Some of these can also be assigned for video monitor outputs.)

*2 Audio monitor output and timecode output are shared.

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



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