

K2 and T2 Comparison Guide

December 2018

With the K2 Solo 3G now at the “**End of Production**” phase in the product life cycle, two options are available to the market as versatile replacements in two channel configurations:

- T2 4K Elite and Pro
- XDP2 Express and Express 3G from K2 Summit

Below is a quick summary of the differences between the two options, with some ideal applications for the two solutions:

T2 4K:

- ✓ Ideal for Professional AV, smaller broadcast stations, houses of worship
- ✓ Provides versatility with a easy to use touchscreen interface and media card slots
- ✓ Used as a studio recorder, or a utility playback device
- ✓ Great for looped playback, key/fill payout, installed as means of control using a variety of protocols

K2 XDP2:

- ✓ Ideal for mobile environments, broadcast stations and remote broadcasting
- ✓ Provides performance in a 2 RU server with remote monitoring capability
- ✓ Is expandable beyond a 2-channel configuration as broadcast demands evolve
- ✓ File system redundancy for expectational reliability and performance
- ✓ Two channels of Key & Fill payout is available with K2-XDP2-EXPRS3G-4



| | | K2 Solo 3G End of Production | T2 4K Elite/Pro | K2-XDP2-EXPRS-4 K2-XDP2-EXPRS3G-4 |
|------------------|---------------------------------|--|---|---|
| Hardware | Size | 2 RU (half rack width) | 3 RU (full rack width) | 2 RU (full rack width) |
| | Storage | HDD only | Elite: SSD 2 TB Pro: HDD 2 TB | 5x 400 GB SSD-RAID 5 |
| Interface | LCD Touchscreen | No | 7-inch LCD Touchscreen (preview, managing & selecting media clips, clip editing, trimming & payout, playlist creation) | No |
| | Input Connections (Video) | SD/HD SDI | SD/HD SDI | SD/HD SDI |
| | Input Connections (Audio) | Embedded Audio, AES/EBU, XLR (option) | Embedded Audio | Embedded Audio, AES/EBU, XLR (option) |
| | Jog/Shuttle Control Knob | No | Yes | No |
| | Jog/Shuttle Control in Software | Yes, under AppCenter control | Yes, Workstation Mode only | Yes, under AppCenter SW control |
| | Media Card Reader | No | Elite: Yes (SD, SD (UHS-II), CF, SxS, 2.5-inch SSD) Pro: No | No |
| | USB Ports | Yes (6x USB 2.0) | Yes (6x USB 3.0, 4x USB 2.0) | Yes (2x USB 3.0, 3x USB 2.0) |
| Gigabit Ethernet | Yes (4 ports) | Yes (2 ports) | Yes (4 ports) | |
| Video | Channels | 2 record + 1 play (ChannelFlex: Elite only) 2 camera inputs and 1 play channel 1 Super SloMo camera input and 1 play channel 4 camera inputs 1 3D camera feed and 1 play channel Video+key record or payout on each channel | 4K: 1 record + 0 play 4K: 0 record + 1 play HD/SD: 1 record + 2 play | 3 record + 1 play (K2-XDP2-EXPRS3G-4 only) 2 camera inputs and 1 play channel 1 Super SloMo camera input and 1 play channel 4 camera inputs 1 3D camera feed and 1 play channel Video+key record or payout on each channel |

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|----------------------------------|--|---|--|
| Input Formats | DV100, XDCAM HD/HD422, AVC-Intra 50/100 (Elite only), QuickTime, MXF & GXF import | 4K: Grass Valley HQX HD/SD: MXF (XDCAM) compatibility | DV100, XDCAM, HD/HD422, AVC-Intra, QuickTime, MXF, GXF import, 1080p, ProRes, DNxHD, 3G (K2-XDP2-EXPRS3G-4 only) |
| Recording Capacity | 12 hours (DV100, MPEG-2 100 Mb/s) | 3.5 hours (4K UHD 59.94p, Grass Valley HQX) 7.5 hours (4K UHD 29.97p, Grass Valley HQX) 28 hours (HD 59.94i, Grass Valley HQX) 72 hours (HD 59.94i, XDCAM HD 422 50 Mb/s) | 33 hours (AVC 100) |
| Scheduled Recording | Yes, under AppCenter SW control | Yes | Yes, under AppCenter SW control |
| Proxy Encoding | Yes (MPEG-4, AAC) | No | Yes (MPEG-4, AAC) |
| Edit-in-Place | Yes | Yes | Yes |
| Output Formats (Native Playback) | XDCAM, XDCAM EX, XDCAM HD, XDCAM, HD422, AVC-Intra, MPEG-2, DVCPRO, H.264, QuickTime, MXF, GXF | 4K: AVI (Grass Valley HQX), MXF (Grass Valley HQX), QuickTime (Grass Valley HQX), MP4 (H.264/AVC), XAVC (QFHD Long (150/100/60)), XAVC S (H.264/AVC) HD/SD: AVI (Grass Valley HQX, Grass Valley HQ, DVCPRO HD, DVCPRO50, DVCPRO25, DV), MXF (MPEG-2, H.264/AVC, DNxHD (220/145/100/36), Grass Valley HQX, Grass Valley HQ, DVCPRO HD, DVCPRO50, DVCPRO25, DV, D10/IMX), QuickTime (ProRes 422, XDCAM (HD422/HD), XDCAM EX, Grass Valley HQX, Grass Valley HQ), MP4 (H.264/AVC), XDCAM (XDCAM HD422, XDCAM HD, XDCAM IMX, XDCAM DV, XDCAM EX), XAVC (HD Intra (200, 100, 50), HD Long422 (50/35/25)), XAVC S (H.264/AVC), P2 (AVC-LongG (50/25/12), AVC-Intra (200/100/50), DVCPRO HD, DVCPRO 50, DVCPRO, DV), AVCHD (H.264/AVC) | XDCAM, XDCAM EX, XDCAM HD, XDCAM, DNxHD, ProRes, HD422, AVC-Intra, MPEG-2, DVCPRO, H.264, QuickTime, MXF, GXF |
| Transcode Import | No | 4K: AVI* (Grass Valley Lossless, Grass Valley Uncompressed), MXF* (H.264/AVC), QuickTime* (ProRes422, ProRes4444), XAVC* (4K Intra (480/300), QFHD Intra (480/300), QFHD Long422 (200/140/100)), P2* (AVC-Intra 4K (422)), Windows Media* (Windows Media Video) HD/SD: AVI* (Grass Valley Lossless, Grass Valley Uncompressed), MXF* (JPEG2000), QuickTime* (ProRes 4444, H.264, MPEG-4, DVCPRO HD, DVCPRO 50, DVCPRO 25, DV, Motion JPEG, Uncompressed), MPEG-2* (PS, TS), Windows Media* (Windows Media Video), GXF** (Grass Valley HQ, MPEG-2 (Intra Frame), H.264/AVC (Intra Frame), DVCPRO HD, DVCPRO 50, DVCPRO, DV), Still Image* (Targa, Windows Bitmap, JPEG, TIFF, PNG, GIF, DPX, YUV Bitmap) * Convert to AVI (Grass Valley HQX) ** Rewrap to MXF | No |

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|---|-------------------------------|---|--|---|
| Video (cont.) | Up/Down/ Crossconversion | Yes | Yes | Yes |
| | 3D | Yes | Yes | Yes |
| | Video/Key | Yes | Yes | Yes |
| | Monitor Mode | SDI monitor out (with timecode burn-in), VGA Multiviewer mode (with text overlay) | No | SDI monitor out (with timecode burn-in), VGA Multiviewer mode (with text overlay) |
| | Slow | Yes (High Quality) | Yes | Yes (High Quality) |
| | Instant Replay | Yes (less than 1/2 second) | Yes | Yes (less than 1/2 second) |
| Remote Control | Protocol | BVW (RS-422), VDCP (RS-422), AMP (RS-422, Ethernet), K2.net native API | BVW (RS-422), AMP (Ethernet) | BVW (RS-422), VDCP (RS-422), AMP (RS-422, Ethernet), K2.net native API |
| | GPIO | Yes (12 in, 12 out) | Yes (8 in, 8 out, Trigger/Tally) | Yes (12 in, 12 out) |
| | Timecode Chasing by LTC Input | No | Yes | No |
| | VTR Emulation | Yes, Sony BVW75 protocol (w/o insert edit) | Yes, Sony BVW75 protocol (w/o insert edit) | Yes, Sony BVW75 protocol (w/o insert edit) |
| | K2 Dyno Support | Yes | No | Yes |
| Others | Embedded OS | Windows Embedded Standard 7 (K2 Summit v9.x) | Windows 10 IoT | Windows 10 |
| | Language (GUI) | English + Unicode support | English, Chinese (Simplified), Chinese (Traditional), French, German, Italian, Japanese, Spanish | English + Unicode support |
| | Workstation Mode | Yes, under AppCenter SW control | Yes (Workstation) | Yes, under AppCenter SW control |
| | Standalone Use | Yes (recommend control PC for payout) | Yes (Can use standalone, and GUI is optimized for playlist playback) | Yes (recommend control PC for payout) |
| | Effects | Fade up, Fade down Dissolves between two video tracks | Fade up, Fade down | Fade up, Fade down Dissolves between two video tracks |
| | Remote Monitoring | Yes (SNMP-based) | No | Yes (SNMP-based) |
| | Customize Playlist View | Yes | Yes (Icons/Tiles/List/Details View) | Yes |
| | Customize Keyboard Shortcuts | No (fixed shortcuts) | Yes | No (fixed shortcuts) |
| Synchronized Playback of Multiple Units | No | Yes (Constant delay playback by GPI Input, Timecode chasing by LTC Input) | No | |

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