

Hardware Comparison Chart

Which media server is right for you?

Compare hardware specs

| | VX4+ | VX3 | VX2+ | VX1 | GX3 | RX III | EX3+ | EX2C | EX2 | PX | PX+ | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|
| SYSTEM CONNECTIVITY - I/O | | | | | | | | | | | | |
| Video Output | 4x 4K outputs using VFC cards | 3x 4K outputs using VFC cards | 2x 4K outputs using VFC cards | 1x 4K output using VFC cards | 3x 4K outputs using VFC cards | RenderStream output only | 3x 4K outputs using DisplayPort 1.4 | 2x 4K outputs using DisplayPort 1.4 | 2x 4K outputs using DisplayPort 1.4 | 4x 4K outputs using DisplayPort 1.4 | 4x 4K outputs using DisplayPort 1.4 | |
| Video Input | 4x 12G inputs or 16x 3G inputs (HD-BNC connectors) | 3x 12G inputs or 12x 3G inputs (HD-BNC connectors) | 2x 12G inputs or 8x 3G inputs (HD-BNC connectors) | 1x 12G input or 4x 3G inputs (HD-BNC connectors) | 3x 12G inputs or 12x 3G inputs (HD-BNC connectors) | RenderStream input only | Up to 2x 4K DCI inputs or 8x Full-HD inputs via: 1x 12G or 4x 3G SDI (HD-BNC connectors) 1x HDMI 2.0 capture | Up to 1x 4K DCI input or 4x Full-HD inputs via: 1x 12G or 4x 3G SDI (HD-BNC connectors) 1x HDMI 2.0 capture | Video input via NDI only | 4x bidirectional 3G connections configurable for either video input or video output (BNC connector) | 4x bidirectional 3G connections configurable for either video input or video output (BNC connector) | |
| Dedicated GUI port | 1x DisplayPort 1.4 | 1x DisplayPort 1.4 | 1x DisplayPort 1.4 | 1x DisplayPort 1.4 (for VX1 with backplane version 2) | 1x DisplayPort 1.4 | No | No | |
| Video Sync | BNC Genlock | No | BNC Genlock | BNC Genlock | BNC Genlock | No | No | |
| Optical Audio | ADAT/SPDIF (Toslink connector) - 1x in, 1x out | ADAT/SPDIF (Toslink connector) - 1x in, 1x out | ADAT/SPDIF (Toslink connector) - 1x in, 1x out | ADAT/SPDIF (Toslink connector) - 1x in, 1x out | ADAT/SPDIF (Toslink connector) - 1x in, 1x out | No | No | No | No | No | No | |
| MIDI | MIDI (circular 5-pin DIN connector) - 1x in, 1x out | MIDI (circular 5-pin DIN connector) - 1x in, 1x out | MIDI (circular 5-pin DIN connector) - 1x in, 1x out | MIDI (circular 5-pin DIN connector) - 1x in, 1x out | MIDI (circular 5-pin DIN connector) - 1x in, 1x out | No | No | No | No | No | No | |
| Audio | Balanced XLR (circular 3-pin connector) - 2x in, 2x out Analogue (1/4 headphone jack) - 1x in | Balanced XLR (circular 3-pin connector) - 2x in, 2x out Analogue (1/4 headphone jack) - 1x in | Balanced XLR (circular 3-pin connector) - 2x in, 2x out Analogue (1/4 headphone jack) - 1x in | Balanced XLR (circular 3-pin connector) - 2x in, 2x out Analogue (1/4 headphone jack) - 1x in | Balanced XLR (circular 3-pin connector) - 2x in, 2x out Analogue (1/4 headphone jack) - 1x in | No | No | No | No | SDI Audio Input/Output - 16x channels | SDI Audio Input/Output - 16x channels | |
| General Network | 1x 10GbE/sec 2x 10GbE/sec | 2x 10 GbE/sec | 2x 10 GbE/sec | 2x 10 GbE/sec | 2x 10 GbE/sec | 2x 10GbE/sec | 2x 10GbE/sec | |
| High Speed Network | 2x 100GbE/sec port (QSFP28) | 2x 100GbE/sec port (QSFP28) | 2x 100GbE/sec port (QSFP28) | 2x 25GbE/sec port (SFP28) | 2x 100GbE/sec port (QSFP28) | No | No | |
| System Management Controller | 1x Management Port (Ethernet) | No | No | |
| Data/Peripherals | 5x USB 3.0 | 2x USB 3.2 (Gen 2+) | 6x USB 3.0 | 6x USB 3.0 | |
| PHYSICAL SPECIFICATIONS | | | | | | | | | | | | |
| Mounting System | 4U 19" rack mount | 2U 19" rack mount | |
| Unit Dimensions | W: 445mm (17.5") H: 178mm (7") D: 593mm (23.35") | W: 440mm (17.3") H: 176mm (6.93") D: 595mm (23.43") | W: 440mm (17.3") H: 176mm (6.93") D: 595mm (23.43") | W: 434mm (17.09") H: 177mm (6.97") D: 594mm (23.39") | W: 440mm (17.32") H: 176mm (6.93") D: 595mm (23.43") | W: 441mm (17.36") H: 176mm (6.93") D: 595mm (23.43") | W: 441mm (17.36") H: 88.4mm (3.48") D: 645.25mm (25.4") | W: 440mm (17.32") H: 88mm (3.46") D: 800mm (31.5") | W: 440mm (17.32") H: 88mm (3.46") D: 800mm (31.5") |
| Unit Weight | 21kg (46.3lbs) | 17.8kg (39.24 lbs) | 17.4kg (38.36 lbs) | 16.4kg (36.16 lbs) | 17.7kg (39.03 lbs) | 11.5kg (26.35 lbs) | 11.5kg (26.35 lbs) | 11.4kg (25.1 lbs) | 11kg (24.2 lbs) | 24.3kg (53.5 lbs) | 24.3kg (53.5 lbs) | |
| Unit + Rack Handles | W: 483mm (19") D: 625mm (24.45") | W: 483mm (19") D: 625mm (24.45") | W: 483mm (19") D: 621mm (24.45") | W: 483mm (19") D: 625mm (24.45") | W: 483mm (19.02") D: 625mm (24.61") | W: 483.6mm (19.04") D: 677.5mm (26.67") | W: 483mm (19") D: 621mm (24.45") | W: 483mm (19") D: 621mm (24.45") | |
| Environmental Tolerances | Temperature: 5-35°C (41-95°F) Humidity: 5-95% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 5-95% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 5-95% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 5-95% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 5-95% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 5-35°C (41-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 10-35°C (50-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) | Temperature: 10-35°C (50-95°F) Humidity: 20-80% (non-condensing) Altitude: 0-2700mm (0-8850 ft.) |
| HARDWARE SPECIFICATIONS | | | | | | | | | | | | |
| GPU | AMD RADEON Pro VII | NVIDIA RTX A4500 | NVIDIA RTX A4500 | NVIDIA RTX A4500 | NVIDIA RTX A6000 | |
| CPU | Intel Xeon 3.1Ghz | AMD EPYC 16C/32T 2.45Ghz | |
| Motherboard | PCIe 4.0 | PCIe 4.0 | PCIe 4.0 | PCIe 3.0 | PCIe 4.0 | PCIe 5.0 | PCIe 5.0 | PCIe 5.0 | PCIe 5.0 | PCIe 4.0 | PCIe 4.0 | |
| Memory | 128GB RAM (8x 16GB) | 96GB RAM (6x 16GB) | 96GB RAM (6x 16GB) | 24GB RAM (3x 8GB) | 96GB RAM (6x 16GB) | 96GB RAM (6x 16GB) | 96GB RAM (6x 16GB) | 96GB RAM (12x 8GB) | 96GB RAM (12x 8GB) | 64GB RAM (4x 16GB) | 96GB RAM (6x 16GB) | |
| Storage | 4x 1.92TB Removable NVMe SSD (default RAID 10) | 1x 3.84TB Removable NVMe SSD | 1x 3.84TB Removable NVMe SSD | 1x 1.92TB Removable NVMe SSD | 1x 3.84TB Removable NVMe SSD | 1x 1.92TB Removable NVMe SSD | 1x 3.84TB Removable NVMe SSD | 1x 1.92TB Removable NVMe SSD | |
| Optional Storage Upgrades (At Sale, In Field) | 4x 15.36TB 4x 30.72TB 4x 61.44TB 4x 120TB | 7.68TB 15.36TB 30TB | 7.68TB 15.36TB 30TB | 3.84TB 7.68TB 15.36TB 30TB | 7.68TB 15.36TB 30TB | 3.84TB 7.68TB 15.36TB 30TB | 7.68TB 15.36TB 30TB | 3.84TB 7.68TB 15.36TB 30TB | 3.84TB 7.68TB 15.36TB 30TB | 3.84TB 7.68TB 15.36TB 30TB | No | No |
| Voltage | 100-240V, 50/60Hz (For countries with variable power supply, we recommend a UPS to provide a consistent voltage) | | | | | | | | | | | |
| Power Connection | Neutrik powerCON True1 | | | | | | | | | | IEC | |
| Power Consumption Peak | 785W | 657W | 655W | 363W | 700W | 537W | 332W | 332W | 312W | 480W | 394W | |
| Heat Dissipation Peak | 2,679 BTU/hr | 2,242 BTU/hr | 2,235 BTU/hr | 1,239 BTU/hr | 2,388 BTU/hr | 1,833 BTU/hr | 1,132 BTU/hr | 1,132 BTU/hr | 1,065 BTU/hr | 1,691 BTU/hr | 1,343 BTU/hr | |
| Max. Decibel Rating | N/A | 56dB | 56dB | N/A | 56dB | 55.4dB | 52.4dB | 52.4dB | 52.4dB | N/A | N/A | |
| OS | 2x Internal Storage Drives | 1x Internal Storage Drive | |
| SOFTWARE | | | | | | | | | | | | |
| Installed software | Full Disguise Production Suite | RenderStream Licence (12 months) | Full Disguise Production Suite | Full Disguise Production Suite | Full Disguise Production Suite | Disguise Porta | Disguise Porta | |
| Operating System | Windows 10 Enterprise GAC | Windows 11 Enterprise GAC | Windows 11 Enterprise GAC | Windows 10 Enterprise GAC | Windows 10 Enterprise GAC | Windows 11 Enterprise GAC | Windows 10 Enterprise GAC | Windows 10 Enterprise GAC | |
| RenderStream support | Yes - can be used to receive RenderStream. It cannot be used to send RenderStream and act as a render node | Yes - can be used to both send and receive RenderStream and act as a render node | Yes - can be used to both send and receive RenderStream and act as a render node | Yes - can be used to receive RenderStream. It cannot be used to send RenderStream and act as a render node | Yes - can be used to both send and receive RenderStream and act as a render node | Yes - can be used to send RenderStream and act as a render node | No | No | No | No | No | |
| D3Net capabilities | Director, Actor, Understudy and Editor with other VX and GX machines | Director, Actor, Understudy and Editor with other VX and GX machines | Director, Actor, Understudy and Editor with other VX and GX machines | Director, Actor, Understudy and Editor with other VX and GX machines | Director, Actor, Understudy and Editor with other VX and GX machines | No | Director, Actor, Understudy and Editor with other VX and GX machines | Director, Actor, Understudy and Editor with other VX and GX machines | Director, Actor, Understudy and Editor with other VX and GX machines | No | No | |
| API support | Yes | No | No | |
| Omnicast | Yes | No | No | |
| DMX support | Yes - via Ethernet (Art-Net, sACN, KNet) | No | No | |
| BUNDLED ACCESSORIES | | | | | | | | | | | | |
| Bundled Accessories | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) | Mouse + Keyboard Power Cable (powerCON True1) - USA, EU, UK Hardware Guide Rear Support Rack Rails (optional - available upon request) *support for server racks with square holes (9.5mm), circle holes (7.1mm) and threaded holes (up to 7.1mm) |

Compare VFC cards

Compare output types and resolutions



| | DisplayPort 1.4 | Quad-DVI | Quad SDI | HDMI | IP |
|-----------------------------|------------------------------------|--------------------------|---------------------------------------|------------------------------------|--|
| Outputs | 1x DisplayPort 1.4 output | 4x Dual-Link DVI outputs | 4x 3G-SDI outputs | 1x HDMI 2.0 output | 4x 25GbE SFP28 outputs |
| Maximum resolution | 4096 x 2160 px | 2048 x 1080 px | 4096 x 2160 px (when using Quad-Link) | 4096 x 2160 px | 4096 x 2160 px (optional) |
| Video sync (Genlock) | ✓ | | ✓ | ✓ | ✓ |
| Maximum bit depth | 10-bit | 8-bit | 10-bit | 10-bit | 10-bit (all modes) |
| Chroma Subspelling | RGB and YUV 4:4:4, 4:2:2 and 4:2:0 | RGB 4:2:2 | YUV 4:2:2 | RGB and YUV 4:4:4, 4:2:2 and 4:2:0 | YUV 4:4:4, YUV 4:2:2 and RGB 4:2:2 (all modes) |
| HDR Workflows | ✓ | X | ✓ | ✓ | ✓ |

Fabric

Unified Ecosystem

A high bandwidth network switch, Fabric is preconfigured to sync all your Disguise hardware systems over RenderStream.



| STANDARD BUNDLE | SMALL BUNDLE | Outputs | Voltage: | 100-240VAC, 50/60Hz |
|---|--|---|--|--|
| Rack Mount Kit Quick Start Guide 2x IEC C13 to C14 Power Cables | Standard Bundle + 8x 25GbE Optical Transceiver 2x 100GbE Optical Transceiver 2x 100GbE to 4x 25GbE Breakout Cable | Power Consumption: Operating System: Mounting System: Environmental Tolerances: Throughput: Speed: | Typical Power: 94.3W (Typical power with passive cables) Max power with optical cables: 248.6W (Assuming 3.5W per each QSFP28 port) Mellanox Oryx 1U 19" rack mount | Temperature: 0-40°C (32°-104°F) Humidity: 10%-85% (non-condensing) Altitude: 0-10,000 ft (0-3050m) 32Tb/s Speed: Default: 7x100GbE 32x25GbE (Quad SFP28) Configurable to: 1/10/25/40/50/100GbE per port |
| Standard Bundle + 16x 25GbE Optical Transceiver 4x 100GbE Optical Transceiver 4x 100GbE to 4x 25GbE Breakout Cable | Standard Bundle + 8x 25 GbE Optical Transceiver 6x 100 GbE Optical Transceiver 2x MTP to Quad LC OM4 break-out fibre cable (5m) 2x MTP to MTP OM4 fibre cable (5m) | System Connectivity: Connector Cage: Supported Modules and Cables: | 16x QSFP28 QSFP28, SFP28 short and long range optics QSFP28 to QSFP28 DAC cable QSFP breakout cables 100GbE to 4x 25GbE DAC, optical | |