



Product Information Overview

Signal Recording Systems

Portable & Rackmount





Signatec has a long history of providing high-speed data recording and playback solutions. This expertise in delivering real-time systems saves customers time, and eliminates uncertainties when buying gap-free recording solutions. By providing turn-key hardware and software bundles, we provide customers with a very powerful and flexible signal recording system, while minimizing the risks of self-integrated systems.

Signatec systems are complete with integrated digitizers, data storage arrays, computer, and mouse driven continuous gap-free or pulsed data recording software. Customers can start recording analog signals when the system is received. All units are fully configured, and tested at maximum data rates before shipment.

The systems referenced below represent the most popular configurations, but there are many other options available to build a customized system. Refer to our extensive Sig-Station Product Catalog to explore these possibilities.

Please contact us to discuss your specific requirements, and we'll configure a system tailored to your exact application requirements. Some of the major options include:

- Wideband Downconverter / Receivers – for Signals up to 20 GHz with Selectable IF Bandwidth Options
- Inline FPGA Routines – DDC, FFT, FIR Filter, or User Code
- Larger Channel Counts with Synchronized Sampling
- 4 Channel Arbitrary Waveform Generator – for Analog Signal Generation or Signal Playback
- GPS Correlated Data Time Stamping of Signal Recordings
- Larger Data Storage Systems up to 192 TB Capacity

Portable Systems				4U Rackmount Systems			
<p>The Signatec portable systems feature a built-in display, fold down keyboard with mouse touchpad, and solid state drive based storage array. With the provided digitizer cards and application software, they make a complete small package analog signal recording system.</p>				<p>The Signatec rackmount systems are the best choice for building powerful and deep analog signal recording and playback solutions. They can use either solid state or rotating drive based storage arrays. The two configurations shown include rotating drives, which achieve the longest recording times possible.</p>			
<p>1.4 GB/s Signal Recorder</p>  <ul style="list-style-type: none"> • 17" Integrated Display • 13.61 kg / 30 lb. Weight 		<p>2.8 GB/s Signal Recorder</p>  <ul style="list-style-type: none"> • 21.5" Integrated Display • 15.88 kg / 35 lb. Weight 		<p>1.4 GB/s Signal Recorder</p>  <ul style="list-style-type: none"> • 24 Drive Bay Storage Array • Dual Intel Xeon Processors 		<p>2.8 GB/s Signal Recorder</p>  <ul style="list-style-type: none"> • 48 Drive Bay Storage Array • Dual Intel Xeon Processors 	
<p>Starting at \$29,750 Includes: Digitizer, PC, Storage & Software</p>	<p>Starting at \$34,590 Includes: Digitizer, PC, Storage & Software</p>	<p>Starting at \$62,390 Includes: Digitizers, Sync, PC, Storage & Software</p>	<p>Starting at \$72,070 Includes: Digitizers, Sync, PC, Storage & Software</p>	<p>Starting at \$21,350 Includes: Digitizer, PC, Storage & Software</p>	<p>Starting at \$26,190 Includes: Digitizer, PC, Storage & Software</p>	<p>Starting at \$50,690 Includes: Digitizers, Sync, PC, Storage & Software</p>	<p>Starting at \$60,370 Includes: Digitizers, Sync, PC, Storage & Software</p>
14-Bit A/D Resolution	8-Bit A/D Resolution	14-Bit A/D Resolution	8-Bit A/D Resolution	14-Bit A/D Resolution	8-Bit A/D Resolution	14-Bit A/D Resolution	8-Bit A/D Resolution
2 Channels @ 400 MS/s Max. Sample Rate	4 Channels @ 1.5 GS/s Max. Sample Rate	4 Channels @ 400 MS/s Max. Sample Rate	8 Channels @ 1.5 GS/s Max. Sample Rate	2 Channels @ 400 MS/s Max. Sample Rate	4 Channels @ 1.5 GS/s Max. Sample Rate	4 Channels @ 400 MS/s Max. Sample Rate	8 Channels @ 1.5 GS/s Max. Sample Rate
5.76 TB SSD Storage Array	5.76 TB SSD Storage Array	12.8 TB SSD Storage Array	12.8 TB SSD Storage Array	24 TB HDD Storage Array	24 TB HDD Storage Array	48 TB HDD Storage Array	48 TB HDD Storage Array
Gap-Free Data Record 1.75 Hours: 1 CH @ 400 MS/s	Gap-Free Data Record 1 Hour: 1 CH @ 1.4 GS/s	Gap-Free Data Record 2 Hours: 2 CH @ 400 MS/s	Gap-Free Data Record 1 Hour: 2 CH @ 1.4 GS/s	Gap-Free Data Record 7.5 Hours: 1 CH @ 400 MS/s	Gap-Free Data Record 4 Hours: 1 CH @ 1.4 GS/s	Gap-Free Data Record 7.5 Hours: 2 CH @ 400 MS/s	Gap-Free Data Record 4 Hours: 2 CH @ 1.4 GS/s
Pulsed Data Record up to 180 kHz PRF Acquiring 2,048 Samples/Segment 1 CH @ 400 MS/s	Pulsed Data Record up to 645 kHz PRF Acquiring 2,048 Samples/Segment 1 CH @ 1.5 GS/s	Pulsed Data Record up to 180 kHz PRF Acquiring 2,048 Samples/Segment 2 CH @ 400 MS/s	Pulsed Data Record up to 645 kHz PRF Acquiring 2,048 Samples/Segment 2 CH @ 1.5 GS/s	Pulsed Data Record up to 180 kHz PRF Acquiring 2,048 Samples/Segment 1 CH @ 400 MS/s	Pulsed Data Record up to 645 kHz PRF Acquiring 2,048 Samples/Segment 1 CH @ 1.5 GS/s	Pulsed Data Record up to 180 kHz PRF Acquiring 2,048 Samples/Segment 2 CH @ 400 MS/s	Pulsed Data Record up to 645 kHz PRF Acquiring 2,048 Samples/Segment 2 CH @ 1.5 GS/s



Product Information Overview

1.4 GB/s Signal Recorder

Portable System



The 14-bit or 8-bit 1.4 GB/s portable signal recorder is a high-performance PC workstation with an integrated high-speed SSD storage array.



The portable chassis is built with rugged aluminum construction and shock absorbing rubber corners. It features an integrated 17" LCD 1920 x 1080 resolution display with anti-reflection tempered strengthen glass.



The chassis right side features two removable 2.5" drive bays (one is used for the 1 TB OS drive), a slim optical DVD writable drive, and 12 removable 2.5" drive bays used for the system 5.76 TB SSD storage array.

The chassis left side provides access to the system I/O slots, ports and power cord connector to the 650W auto-switching power supply unit.

The drop down industrial keyboard with mouse touchpad can be left attached to the chassis or can be released independently from the chassis.

The system includes a high-performance Intel Xeon 3.7 GHz 4-Core CPU and 16 GB of system memory. The system motherboard features a total of seven dedicated bandwidth PCIe slots.

The 1.4 GB/s portable signal recorder is configured for 14-bit resolution sampling capabilities with an included Signatec PX14400(A/D/D2)-DR model PCIe digitizer card; featuring two analog input channels with a maximum A/D sampling rate of 400 MS/s per channel.

Alternatively, the 1.4 GB/s portable signal recorder is configured for 8-bit resolution sampling capabilities with an included Signatec PX1500-4-DR model PCIe digitizer card; featuring four analog input channels with a maximum A/D sampling rate of 1.5 GS/s per channel.

The system includes Windows Scope App software for full digitizer operations, conducting and monitoring signal recordings, and displaying previously recorded data files. Software Development Kit for C++, with full API and complete commented source code for Scope App and examples, is also included at no additional charge.

Signal Recording Capabilities

	14-Bit System	8-Bit System
Continuous or Gap-Free Based Data Recording:	Record 1 Hour: 2 CH @ 350 MS/s	Record 1 Hour: 4 CH @ 350 MS/s
	Record 1.75 Hours: 1 CH @ 400 MS/s	Record 1 Hour: 2 CH @ 700 MS/s
Pulsed or Trigger Based Data Recording:	Max. 180 kHz PRF Acquiring 2,048 Samples per Segment with 1 CH @ 400 MS/s	Record 1 Hour: 1 CH @ 1.4 GS/s
		Max. 645 kHz PRF Acquiring 2,048 Samples per Segment with 1 CH @ 1.5 GS/s

Signal Recorder System Items

Pricing Shown Includes: Digitizer, PC, Storage & Software

	14-Bit System	8-Bit System
Starting US Price:	\$29,750	\$34,590
Digitizer:	1 x PX14400-DR	1 x PX1500-4-DR
Sig-Station PC:	1 x S01-AAA-P01	
Sig-Station Storage:	1 x D01-P01-CBA	

Portable System Base Specifications

CPU:	1 x Intel Xeon E5-1620V2, 4-Cores / 8-Threads, 3.7 GHz, Max Turbo 3.9 GHz, 10 MB L3 Cache
RAM:	16 GB Total: 4 x 4 GB, 1600 MHz, DDR3 DIMMs
Motherboard PCIe Slots:	All PCIe Slots are Dedicated Bandwidth Slots: S1: PCIe Gen2 x4 (x8 mech.) = Open, available S2: PCIe Gen3 x4 (x8 mech.) = Open, available S3: PCIe Gen3 x4 (x8 mech.) = Open, available S4: PCIe Gen3 x8 (x16 mech.) = Digitizer S5: PCIe Gen3 x8 = Open, available S6: PCIe Gen3 x8 (x16 mech.) = Graphics S7: PCIe Gen3 x8 = RAID Controller
Recording Drive:	5.76 TB SSD RAID Drive Volume, Includes: 1 x RAID Controller 12 x 480 GB Enterprise Class SSDs
OS Drive:	1 x 1 TB, 5400 RPM, 64 MB DRAM Cache + 8 GB Solid State NAND Flash, SATA 6 Gb/s Interface
DVD Drive:	Slot-Loading Burner Supporting Formats: DVD±R 8X, DVD+RW 8X, DVD-RW 6X, DVD±R DL 6X, DVD-RAM 5X, DVD-ROM 8X, CD-R 24X, CD-RW 24X, CD-ROM 24X
Network:	2 x Gigabit Ethernet LAN RJ45 Ports
USB:	2 x USB 2.0 Ports (front) 2 x USB 2.0 Ports (side)
Graphics:	NVIDIA GeForce GT 640
Operating System:	Microsoft Windows 8.1 Professional 64-Bit
Display:	17" LCD, 1920 x 1080 Resolution, Anti-Reflection Tempered Strengthen Glass
Keyboard / Mouse:	Integrated Drop Down & Detachable USB Keyboard & Mouse Touchpad
Drive Bays:	2 x 2.5" Removable (1 used for OS drive) 1 x Slim Optical (used for DVD drive) 12 x 2.5" Removable (all used for SSD Array)
Power Supply:	Single 650W Auto-Switching
Cooling:	1 x 120 mm Side Intake 1 x 120 mm Rear Exhaust
Temperature:	Operating: 5° to 50° C / 41° to 122° F Non-Operating: -40° to 70° C / -40° to 158° F
Humidity:	Operating: 8 to 90 % Non-Operating: 5 to 95 %
Dimensions:	Width: 433 mm / 17.05 in. Height: 346 mm / 13.62 in. Depth: 227 mm / 8.94 in.
Weight:	Approximately: 13.61 kg / 30 lb.

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Product Information Overview

2.8 GB/s Signal Recorder

Portable System



The 14-bit or 8-bit 2.8 GB/s portable signal recorder is a high-performance PC workstation with an integrated high-speed SSD storage array.



The portable chassis is built with rugged aluminum construction and shock absorbing rubber corners. It features an integrated 21.5" LCD 1920 x 1080 resolution display with anti-reflection tempered strengthen glass.



The chassis right side features two removable 2.5" drive bays (one is used for the 1 TB OS drive), a slim optical DVD writable drive, and 16 removable 2.5" drive bays used for the system 12.8 TB SSD storage array.

The chassis left side provides access to the system I/O slots, ports and power cord connector to the 600W auto-switching power supply unit.

The drop down industrial keyboard with mouse touchpad can be left attached to the chassis or can be released independently from the chassis.

The system includes two high-performance Intel Xeon 2.1 GHz 6-Core CPUs and 32 GB of system memory. The system motherboard features a total of six dedicated bandwidth PCIe slots.

The 2.8 GB/s portable signal recorder is configured for 14-bit resolution sampling capabilities with included two Signatec PX14400(A/D/D2)-DR model PCIe digitizer cards; featuring two analog input channels with a maximum A/D sampling rate of 400 MS/s per channel per card. The acquisitions of the two digitizer cards are synchronized with the Signatec SYNC1500.

Alternatively, the 2.8 GB/s portable signal recorder is configured for 8-bit resolution sampling capabilities with included two Signatec PX1500-4-DR model PCIe digitizer cards; featuring four analog input channels with a maximum A/D sampling rate of 1.5 GS/s per channel per card. The acquisitions of the two digitizer cards are synchronized with the Signatec SYNC1500.

The system includes Windows Scope App software for full digitizer operations, conducting and monitoring signal recordings, and displaying previously recorded data files. Software Development Kit for C++, with full API and complete commented source code for Scope App and examples, is also included at no additional charge.

Signal Recording Capabilities

	14-Bit System	8-Bit System
Continuous or Gap-Free Based Data Recording:	Record 1 Hour: 4 CH @ 350 MS/s	Record 1 Hour: 8 CH @ 350 MS/s
	Record 2 Hours: 2 CH @ 400 MS/s	Record 1 Hour: 4 CH @ 700 MS/s
Pulsed or Trigger Based Data Recording:	Max. 180 kHz PRF Acquiring 2,048 Samples per Segment with 2 CH @ 400 MS/s	Record 1 Hour: 2 CH @ 1.4 GS/s
		Max. 645 kHz PRF Acquiring 2,048 Samples per Segment with 2 CH @ 1.5 GS/s

Signal Recorder System Items

Pricing Shown Includes: Digitizer, Sync, PC, Storage & Software

	14-Bit System	8-Bit System
Starting US Price:	\$62,390	\$72,070
Digitizer:	2 x PX14400-DR	2 x PX1500-4-DR
Synchronization:	1 x SYNC1500	
Sig-Station PC:	1 x S01-BAA-P01	
Sig-Station Storage:	1 x D01-P02-EBB	

Portable System Base Specifications

CPU:	2 x Intel Xeon E5-2620V2, 6-Cores / 12-Threads, 2.1 GHz, Max Turbo 2.6 GHz, 15 MB L3 Cache
RAM:	32 GB Total: 8 x 4 GB, 1600 MHz, DDR3 DIMMs
Motherboard PCIe Slots:	All PCIe Slots are Dedicated Bandwidth Slots: S1: PCIe Gen3 x8 = RAID Controller S2: PCIe Gen3 x16 = RAID Controller S3: PCIe Gen3 x8 = Digitizer S4: PCIe Gen3 x16 = Synchronization S5: PCIe Gen3 x8 = Digitizer S6: PCIe Gen3 x16 = Graphics
Recording Drive:	12.8 TB SSD RAID Drive Volume, Includes: 2 x RAID Controllers 16 x 800 GB Enterprise Class SSDs
OS Drive:	1 x 1 TB, 5400 RPM, 64 MB DRAM Cache + 8 GB Solid State NAND Flash, SATA 6 Gb/s Interface
DVD Drive:	Slot-Loading Burner Supporting Formats: DVD±R 8X, DVD+RW 8X, DVD-RW 6X, DVD±R DL 6X, DVD-RAM 5X, DVD-ROM 8X, CD-R 24X, CD-RW 24X, CD-ROM 24X
Network:	2 x Gigabit Ethernet LAN RJ45 Ports
USB:	4 x USB 2.0 Ports (side)
Graphics:	NVIDIA GeForce GT 640
Operating System:	Microsoft Windows 8.1 Professional 64-Bit
Display:	21.5" LCD, 1920 x 1080 Resolution, Anti-Reflection Tempered Strengthen Glass
Keyboard / Mouse:	Integrated Drop Down & Detachable USB Keyboard & Mouse Touchpad
Drive Bays:	2 x 2.5" Removable (1 used for OS drive) 1 x Slim Optical (used for DVD drive) 16 x 2.5" Removable (all used for SSD Array)
Power Supply:	Single 600W Auto-Switching
Cooling:	2 x 80 mm Rear Exhaust
Temperature:	Operating: 5° to 50° C / 41° to 122° F Non-Operating: -40° to 70° C / -40° to 158° F
Humidity:	Operating: 8 to 90 % Non-Operating: 5 to 95 %
Dimensions:	Width: 524 mm / 20.63 in. Height: 347 mm / 13.66 in. Depth: 226 mm / 8.9 in.
Weight:	Approximately: 15.88 kg / 35 lb.

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Product Information Overview

1.4 GB/s Signal Recorder

4U Rackmount System



The 14-bit or 8-bit 1.4 GB/s 4U rackmount signal recorder is a high-performance PC workstation with an integrated high-speed HDD storage array.



The chassis front features 24 removable 3.5" drive bays used for the system 24 TB HDD storage array.



The chassis rear features two removable 2.5" drive bays (one is used for the 1 TB OS drive), I/O slots, ports and power cord connectors to the redundant 960W auto-switching power supply unit.

Internally, the chassis features four 80 mm hot-swappable cooling fans directly behind the front drive bays and in front of the system motherboard for system cooling.

The system includes two high-performance Intel Xeon 2.1 GHz 6-Core CPUs and 32 GB of system memory. The system motherboard features a total of six dedicated bandwidth PCIe slots.

The 1.4 GB/s 4U rackmount signal recorder is configured for 14-bit resolution sampling capabilities with an included Signatec PX14400(A/D/D2)-DR model PCIe digitizer card; featuring two analog input channels with a maximum A/D sampling rate of 400 MS/s per channel.

Alternatively, the 1.4 GB/s 4U rackmount signal recorder is configured for 8-bit resolution sampling capabilities with an included Signatec PX1500-4-DR model PCIe digitizer card; featuring four analog input channels with a maximum A/D sampling rate of 1.5 GS/s per channel.

The system includes Windows Scope App software for full digitizer operations, conducting and monitoring signal recordings, and displaying previously recorded data files. Software Development Kit for C++, with full API and complete commented source code for Scope App and examples, is also included at no additional charge.

Signal Recording Capabilities

	14-Bit System	8-Bit System
Continuous or Gap-Free Based Data Recording:	Record 4 Hours: 2 CH @ 350 MS/s	Record 4 Hours: 4 CH @ 350 MS/s
	Record 7.5 Hours: 1 CH @ 400 MS/s	Record 4 Hours: 2 CH @ 700 MS/s
Pulsed or Trigger Based Data Recording:	Max. 180 kHz PRF Acquiring 2,048 Samples per Segment with 1 CH @ 400 MS/s	Record 4 Hours: 1 CH @ 1.4 GS/s
		Max. 645 kHz PRF Acquiring 2,048 Samples per Segment with 1 CH @ 1.5 GS/s

Signal Recorder System Items

Pricing Shown Includes: Digitizer, PC, Storage & Software

	14-Bit System	8-Bit System
Starting US Price:	\$21,350	\$26,190
Digitizer:	1 x PX14400-DR	1 x PX1500-4-DR
Sig-Station PC:	1 x S01-BAA-402	
Sig-Station Storage:	1 x D01-402-IFA	

4U Rackmount System Base Specifications

CPU:	2 x Intel Xeon E5-2620V2, 6-Cores / 12-Threads, 2.1 GHz, Max Turbo 2.6 GHz, 15 MB L3 Cache
RAM:	32 GB Total: 8 x 4 GB, 1600 MHz, DDR3 DIMMs
Motherboard PCIe Slots:	All PCIe Slots are Dedicated Bandwidth Slots: S1: PCIe Gen3 x8 = RAID Controller S2: PCIe Gen3 x16 = Open, available S3: PCIe Gen3 x8 = Digitizer S4: PCIe Gen3 x16 = Open, available S5: PCIe Gen3 x8 = Open, available S6: PCIe Gen3 x16 = Graphics
Recording Drive:	24 TB HDD RAID Drive Volume, Includes: 1 x RAID Controller 24 x 1 TB Enterprise Class HDDs
OS Drive:	1 x 1 TB, 5400 RPM, 64 MB DRAM Cache + 8 GB Solid State NAND Flash, SATA 6 Gb/s Interface
DVD Drive:	1 x External USB Burner Supporting Formats: DVD±R 8X, DVD+RW 8X, DVD-RW 6X, DVD±R DL 6X, DVD-RAM 5X, DVD-ROM 8X, CD-R 24X, CD-RW 24X, CD-ROM 24X
Network:	2 x Gigabit Ethernet LAN RJ45 Ports
USB:	2 x USB 2.0 Ports (front) 4 x USB 2.0 Ports (rear)
Graphics:	NVIDIA GeForce GT 640
Operating System:	Microsoft Windows 8.1 Professional 64-Bit
Keyboard / Mouse:	Microsoft USB Desktop 400 Set
Drive Bays:	2 x Rear 2.5" Removable (1 used for OS drive) 24 x Front 3.5" Removable (all used for HDD Array)
Power Supply:	Redundant 960W Auto-Switching
Cooling:	4 x 80 mm Intake
Temperature:	Operating: 5° to 50° C / 41° to 122° F Non-Operating: -40° to 70° C / -40° to 158° F
Humidity:	Operating: 8 to 90 % Non-Operating: 5 to 95 %
Dimensions:	Width: 483 mm / 19 in. Height: 178 mm / 7 in. Depth: 699 mm / 27.5 in.
Weight:	Approximately: 52.16 kg / 115 lb.

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Product Information Overview

2.8 GB/s Signal Recorder

4U Rackmount System



The 14-bit or 8-bit 2.8 GB/s 4U rackmount signal recorder is a high-performance PC workstation with an integrated high-speed HDD storage array.



The chassis front features 48 removable 2.5" drive bays used for the system 48 TB HDD storage array.



The chassis rear features two removable 2.5" drive bays (one is used for the 1 TB OS drive), I/O slots, ports and power cord connectors to the redundant 960W auto-switching power supply unit.

Internally, the chassis features four 80 mm hot-swappable cooling fans directly behind the front drive bays and in front of the system motherboard for system cooling.

The system includes two high-performance Intel Xeon 2.1 GHz 6-Core CPUs and 32 GB of system memory. The system motherboard features a total of six dedicated bandwidth PCIe slots.

The 2.8 GB/s 4U rackmount signal recorder is configured for 14-bit resolution sampling capabilities with included two Signatec PX14400(A/D/D2)-DR model PCIe digitizer cards; featuring two analog input channels with a maximum A/D sampling rate of 400 MS/s per channel per card. The acquisitions of the two digitizer cards are synchronized with the Signatec SYNC1500.

Alternatively, the 2.8 GB/s 4U rackmount signal recorder is configured for 8-bit resolution sampling capabilities with included two Signatec PX1500-4-DR model PCIe digitizer cards; featuring four analog input channels with a maximum A/D sampling rate of 1.5 GS/s per channel per card. The acquisitions of the two digitizer cards are synchronized with the Signatec SYNC1500.

The system includes Windows Scope App software for full digitizer operations, conducting and monitoring signal recordings, and displaying previously recorded data files. Software Development Kit for C++, with full API and complete commented source code for Scope App and examples, is also included at no additional charge.

Signal Recording Capabilities

	14-Bit System	8-Bit System
Continuous or Gap-Free Based Data Recording:	Record 4 Hours: 4 CH @ 350 MS/s	Record 4 Hours: 8 CH @ 350 MS/s
	Record 7.5 Hours: 2 CH @ 400 MS/s	Record 4 Hours: 4 CH @ 700 MS/s Record 4 Hours: 2 CH @ 1.4 GS/s
Pulsed or Trigger Based Data Recording:	Max. 180 kHz PRF Acquiring 2,048 Samples per Segment with 2 CH @ 400 MS/s	Max. 645 kHz PRF Acquiring 2,048 Samples per Segment with 2 CH @ 1.5 GS/s

Signal Recorder System Items

Pricing Shown Includes: Digitizer, Sync, PC, Storage & Software

	14-Bit System	8-Bit System
Starting US Price:	\$50,690	\$60,370
Digitizer:	2 x PX14400-DR	2 x PX1500-4-DR
Synchronization:	1 x SYNC1500	
Sig-Station PC:	1 x S01-BAA-403	
Sig-Station Storage:	1 x D01-403-NFB	

4U Rackmount System Base Specifications

CPU:	2 x Intel Xeon E5-2620V2, 6-Cores / 12-Threads, 2.1 GHz, Max Turbo 2.6 GHz, 15 MB L3 Cache
RAM:	32 GB Total: 8 x 4 GB, 1600 MHz, DDR3 DIMMs
Motherboard PCIe Slots:	All PCIe Slots are Dedicated Bandwidth Slots: S1: PCIe Gen3 x8 = RAID Controller S2: PCIe Gen3 x16 = RAID Controller S3: PCIe Gen3 x8 = Digitizer S4: PCIe Gen3 x16 = Synchronization S5: PCIe Gen3 x8 = Digitizer S6: PCIe Gen3 x16 = Graphics
Recording Drive:	48 TB HDD RAID Drive Volume, Includes: 2 x RAID Controllers 48 x 1 TB Enterprise Class HDDs
OS Drive:	1 x 1 TB, 5400 RPM, 64 MB DRAM Cache + 8 GB Solid State NAND Flash, SATA 6 Gb/s Interface
DVD Drive:	1 x External USB Burner Supporting Formats: DVD±R 8X, DVD+RW 8X, DVD-RW 6X, DVD±R DL 6X, DVD-RAM 5X, DVD-ROM 8X, CD-R 24X, CD-RW 24X, CD-ROM 24X
Network:	2 x Gigabit Ethernet LAN RJ45 Ports
USB:	2 x USB 2.0 Ports (front) 4 x USB 2.0 Ports (rear)
Graphics:	NVIDIA GeForce GT 640
Operating System:	Microsoft Windows 8.1 Professional 64-Bit
Keyboard / Mouse:	Microsoft USB Desktop 400 Set
Drive Bays:	2 x Rear 2.5" Removable (1 used for OS drive) 48 x Front 2.5" Removable (all used for HDD Array)
Power Supply:	Redundant 960W Auto-Switching
Cooling:	4 x 80 mm Intake
Temperature:	Operating: 5° to 50° C / 41° to 122° F Non-Operating: -40° to 70° C / -40° to 158° F
Humidity:	Operating: 8 to 90 % Non-Operating: 5 to 95 %
Dimensions:	Width: 483 mm / 19 in. Height: 178 mm / 7 in. Depth: 699 mm / 27.5 in.
Weight:	Approximately: 56.70 kg / 125 lb.

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