

Essentials by Pivot3

TECHNICAL SPECIFICATIONS



Technical Specifications - Essentials by Pivot3 2U 26-Bay Video Recording Servers



Item	2U 26-Bay Elite (E2R26)
Class	Elite
Role	Video Recording Server
Operating System	Windows Server 2019
Server Platforms	Dell R740xd2
Form Factors	2U Server
Processors	2 x Intel Xeon 4216 (16-core)
RAM	32GB
Storage Capacity (raw)	288, 320, 384, 416TB
Storage Capacity (usable)	218.2, 232.2, 291.0, 320.1TB
Disk Protection	RAID-6 (storage), RAID-1 (OS)
Hard Disk (HDD)	12, 16TB 3.5" SATA (storage)
Solid-state Disk (SSD)	2 x 240GB M.2 (OS)
Drive Count	20, 24, 26 x HDD + 2 x SSD
Network Connectivity	2 x 1GbE RJ45 + 2 x 10Gb SFP+
Warranty	5 Year Next Business Day
Power Supplies	2 x 1100W Redundant Power Supplies
Out-of-Band Management	Dell iDRAC Express
Physical Specifications	Height: 3.41 in. (8.7 cm) Width: 18.97 in. (48.2 cm) Depth: 34.67 in. (88.1 cm) Weight: Max config: 88 lbs. (39.92 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	4100 BTU/hr. (@1100 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3 2U 18-Bay Video Recording Servers



Item	2U 18-Bay Elite (E2R18)
Class	Elite
Role	Video Recording Server
Operating System	Windows Server 2019
Server Platforms	Dell R740xd
Form Factors	2U Server
Processors	2 x Intel Xeon 4214R (12-core)
RAM	32GB
Storage Capacity (raw)	96, 128, 144, 192, 224, 256, 288TB
Storage Capacity (usable)	72.2, 101.9, 116.4, 145.5, 174.6, 203.7, 232.8TB
Disk Protection	RAID-6 (storage), RAID-1 (OS)
Hard Disk (HDD)	8, 16TB 3.5" SATA (storage)
Solid-state Disk (SSD)	2 x 240GB M.2 (OS), 3.2TB NVMe (optional)
Drive Count	12, 14, 16, 18 x HDD + 2 x SSD
GPU	P2200 (optional)
Network Connectivity	4 x 1GbE RJ45 + 2 x 10Gb SFP+
Warranty	5 Year Next Business Day
Power Supplies	2 x 1100W Redundant Power Supplies
Out-of-Band Management	Dell iDRAC Express
Physical Specifications	Height: 3.41 in. (8.7 cm) Width: 18.97 in. (48.2 cm) Depth: 29.5 in. (74.9 cm) Weight: Max config: 72.97 lbs. (33.1 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	4100 BTU/hr. (@1100 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3 2U 12-Bay Video Recording Servers



Item	2U 12-Bay Elite (E2R12)
Class	Elite
Role	Video Recording Server
Operating System	Windows Server 2019
Server Platforms	Dell R540
Form Factors	2U Server
Processors	1, 2 x Intel Xeon 4210R (10-core)
RAM	16, 32GB
Storage Capacity (raw)	32, 48, 64, 96, 128, 144, 192TB
Storage Capacity (usable)	21.8, 32.7, 50.9, 72.2, 101.9, 109.1, 145.5TB
Disk Protection	RAID-5, RAID-6 (storage), RAID-1 (OS)
Hard Disk (HDD)	8, 12, 16TB 3.5" SATA (storage)
Solid-state Disk (SSD)	2 x 240GB M.2 (OS), 1.6, 3.2TB NVMe (optional)
Drive Count	4, 8, 12 x HDD + 2 x SSD
GPU	P2200 (optional)
Network Connectivity	2 x 1GbE RJ45, 2 x 1GbE RJ45 + 2 x 10Gb SFP+
Warranty	5 Year Next Business Day
Power Supplies	2 x 750W Redundant Power Supplies
Out-of-Band Management	Dell iDRAC Basic
Physical Specifications	Height: 3.41 in. (8.7 cm) Width: 18.97 in. (48.2 cm) Depth: 28.28 in. (71.8 cm) Weight: Max config: 65.43 lbs. (29.68 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	2891 BTU/hr. (@750 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3 2U 8-Bay Video Recording Servers



Item	2U 8-Bay Professional (P2R08)	2U 8-Bay Elite (E2R08)
Class	Professional	Elite
Role	Video Recording Server	Video Recording Server
Operating System	Windows 10 Pro	Windows Server 2019
Server Platform	Dell R7920	Dell R7920
Form Factor	2U Server	2U Server
Processor	1 x Intel Xeon 4208 (8-core)	1 x Intel Xeon 4208 (8-core)
RAM	16GB	16GB
Storage Capacity (raw)	16, 32, 64TB	16, 32, 64TB
Storage Capacity (usable)	10.9, 21.8, 43.6TB	10.9, 21.8, 43.6TB
Disk Protection	RAID-5 (storage), RAID-1 (OS)	RAID-5 (storage), RAID-1 (OS)
Hard Disk (HDD)	4, 8, 16TB 3.5" SATA (storage)	4, 8, 16TB 3.5" SATA (storage)
Solid-state Disk (SSD)	2 x 256GB 2.5" SATA (OS)	2 x 256GB 2.5" SATA (OS), 1.6TB NVMe (optional)
Drive Count	4 x HDD + 2 x SSD	4 x HDD + 2 x SSD
GPU	N/A	P2200 (optional)
Network Connectivity	4 x 1GbE RJ45	4 x 1GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	2 x 1100W Redundant Power Supplies	2 x 1100W Redundant Power Supplies
Out-of-Band Management	Dell iDRAC Express	Dell iDRAC Express
Physical Specifications	Height: 3.41 in. (8.7 cm) Width: 18.97 in. (48.2 cm) Depth: 28.8 in. (73.2 cm) Weight: Max config: 65.43 lbs. (29.68 kg)	Height: 3.41 in. (8.7 cm) Width: 18.97 in. (48.2 cm) Depth: 28.8 in. (73.2 cm) Weight: Max config: 65.43 lbs. (29.68 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	4100 BTU/hr. (@1100 watts)	4100 BTU/hr. (@1100 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3 1U 4-Bay Video Recording Servers



Item	1U 4-Bay Elite (E1R04)	1U 4-Bay Elite (E1R04)
Class	Elite	Elite
Role	Video Recording Server	Video Recording Server
Operating System	Windows Server 2019	Windows Server 2019
Server Platform	Dell R240	Dell R340
Form Factor	1U Server	1U Server
Processor	1 x Intel Xeon E-2234 (4-core)	1 x Intel Xeon E-2236 (6-core)
RAM	16GB	16GB
Storage Capacity (raw)	8, 16, 24, 32TB	32, 48, 64TB
Storage Capacity (usable)	7.3, 14.6, 21.8, 29.2TB	21.8, 32.7, 50.9TB
Disk Protection	JBOD (storage), RAID-1 (OS)	RAID-5 (storage), RAID-1 (OS)
Hard Disk (HDD)	4, 8, 12, 16TB 3.5" SATA (storage)	8, 12, 16TB 3.5" SATA (storage)
Solid-state Disk (SSD)	1 x 480GB 2.5" (OS)	2 x 240GB M.2 (OS),
Drive Count	2 x HDD + 1 x SSD	4 x HDD + 2 x SSD
Network Connectivity	2 x 1GbE RJ45	2 x 1GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	1 x 450W Power Supply	2 x 350W Redundant Power Supplies
Out-of-Band Management	Dell iDRAC Basic	Dell iDRAC Basic
Physical Specifications	Height: 1.67 in. (4.24 cm) Width: 18.97 in. (48.2 cm) Depth: 23.9 in. (60.7 cm) Weight: Max config: 29.0 lbs. (13.2 kg)	Height: 1.67 in. (4.24 cm) Width: 18.97 in. (48.2 cm) Depth: 23.9 in. (60.7 cm) Weight: Max config: 29.0 lbs. (13.2 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	1356 BTU/hr. (@350 watts)	1356 BTU/hr. (@350 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3
 1U 4-Bay Management Servers



Item	1U 4-Bay Elite (E1R04)
Class	Elite
Role	Management Server
Operating System	Windows Server 2019
Server Platform	Dell R240
Form Factor	1U Server
Processor	1 x Intel Xeon E-2224 (4-core) <u>or</u> 1 x Intel Xeon E-2234 (4-core)
RAM	16GB
Storage Capacity (raw)	480, 960GB
Storage Capacity (usable)	447GB
Disk Protection	JBOD, RAID-1 (OS)
Hard Disk (HDD)	N/A
Solid-state Disk (SSD)	1, 2 x 480GB 2.5" (OS)
Drive Count	1, 2 x SSD
Network Connectivity	2 x 1GbE RJ45
Warranty	5 Year Next Business Day
Power Supplies	1 x 450W Power Supply
Out-of-Band Management	Dell iDRAC Basic
Physical Specifications	Height: 1.67 in. (4.24 cm) Width: 18.97 in. (48.2 cm) Depth: 23.9 in. (60.7 cm) Weight: Max config: 29.0 lbs. (13.2 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	1725 BTU/hr. (@450 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3

1U 2-Bay Video Recording Servers, Viewing Workstations and Management Servers

Item	1U 2-Bay Professional (P1R02)	1U 2-Bay Standard (S1R02)
Class	Professional	Standard
Role	Video Recording Server	Viewing Workstation Management Server
Operating System	Windows 10 Pro	Windows 10 Pro
Server Platform	Dell P3930	Dell P3930
Form Factor	1U Server	1U Server
Processor	1 x Intel Core i3-9100 (4-core) <u>or</u> 1 x Intel Core i7-9700k (8-core)	1 x Intel Core i3-9100 (4-core) <u>or</u> 1 x Intel Core i7-9700k (8-core) <u>or</u> 1 x Intel Core i9-9900k (8-core)
RAM	8, 16GB	16, 32GB
Storage Capacity (raw)	8, 16, 32TB	256, 512GB
Storage Capacity (usable)	7.3, 14.6, 29.1TB	238.4GB
Disk Protection	JBOD, RAID-1 (storage)	JBOD, RAID-1 (OS)
Hard Disk (HDD)	4, 8, 16TB 3.5" SATA (storage)	N/A
Solid-state Disk (SSD)	1 x 256GB M.2 (OS)	1, 2 x 256GB M.2 (OS)
Drive Count	2 x HDD + 1 x SSD	1, 2 x SSD
GPU	N/A	P620, P1000, P2200, RTX4000, RTX5000, RTX6000 (optional)
Network Connectivity	1 x 1GbE RJ45 + 1 x 10GbE RJ45	1 x 1GbE RJ45 + 1 x 10GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	1, 2 x 550W Power Supply	2 x 550W Redundant Power Supplies
Out-of-Band Management	N/A	N/A
Physical Specifications	Height: 1.67 in. (4.24 cm) Width: 18.97 in. (48.2 cm) Depth: 23.9 in. (60.7 cm) Weight: Max config: 27.38 lbs. (12.42 kg)	Height: 1.67 in. (4.24 cm) Width: 18.97 in. (48.2 cm) Depth: 23.9 in. (60.7 cm) Weight: Max config: 27.38 lbs. (12.42 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	2100 BTU/hr. (@550 watts)	2100 BTU/hr. (@550 watts)
Certifications	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A	ENERGY STAR 2.1 for Servers, UL/IEC 60950-1, FCC part 15 class A

Technical Specifications - Essentials by Pivot3 Tower (RAID) 4-Bay Video Recording Servers



Item	Tower 4-Bay Elite (E3T04)	Tower 4-Bay Professional (P3T04)
Class	Elite	Professional
Role	Video Recording Server	Video Recording Server
Operating System	Windows Server 2019	Windows 10 Pro
Server Platforms	Dell T140	Dell T140
Form Factors	Tower	Tower
Processors	1 x Intel Xeon E-2234 (4-core)	1 x Intel Xeon E-2234 (4-core)
RAM	16GB	16GB
Storage Capacity (raw)	16, 32, 64TB	16, 32, 64TB
Storage Capacity (usable)	14.6, 29.1, 43.7TB	14.6, 29.1, 43.7TB
Disk Protection	JBOD, RAID-1, RAID-5 (storage)	JBOD, RAID-1, RAID-5 (storage)
Hard Disk (HDD)	8, 16TB 3.5" SATA (storage)	8, 16TB 3.5" SATA (storage)
Solid-state Disk (SSD)	1 x 240GB M.2 (OS)	1 x 240GB M.2 (OS)
Drive Count	2, 4 x HDD + 1 x SSD	2, 4 x HDD + 1 x SSD
Network Connectivity	2 x 1GbE RJ45	2 x 1GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	1 x 365W Power Supply	1 x 365W Power Supply
Out-of-Band Management	Dell iDRAC Basic	Dell iDRAC Basic
Physical Specifications	Height: 17.87 in. (45.4 cm) Width: 6.89 in. (17.5 cm) Depth: 14.29 in. (36.3 cm) Weight: Max config: 26.1 lbs. (11.9 kg)	Height: 17.87 in. (45.4 cm) Width: 6.89 in. (17.5 cm) Depth: 14.29 in. (36.3 cm) Weight: Max config: 26.1 lbs. (11.9 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	1908 BTU/hr. (@365 watts)	1908 BTU/hr. (@365 watts)
Certifications	ENERGY STAR 8.0	ENERGY STAR 8.0

Tower (Mid) 3-Bay Video Recording Servers and Viewing Workstations

Item	Tower 3-Bay Professional (P2T03)	Tower 3-Bay Standard (S2T03)
Class	Professional	Standard
Role	Video Recording Server	Viewing Workstation
Operating System	Windows 10 Pro	Windows 10 Pro
Server Platforms	Dell Precision T3640	Dell Precision T3640
Form Factors	Tower	Tower
Processors	1 x Intel Core i5-10500 (6-core) <u>or</u> 1 x Intel Core i7-10700 (8-core)	1 x Intel Core i5-10500 (6-core) <u>or</u> 1 x Intel Core i7-10700 (8-core)
RAM	16GB	16GB
Storage Capacity (raw)	4, 8, 16TB	256GB
Storage Capacity (usable)	3.6, 7.3, 14.6TB	238.4GB
Disk Protection	JBOD	JBOD
Hard Disk (HDD)	2, 4, 8TB 3.5" SATA (storage)	N/A
Solid-state Disk (SSD)	1 x 256GB M.2 (OS)	1 x 256GB M.2 (OS)
Drive Count	2 x HDD + 1 x SSD	1 x SSD
GPU	N/A	P2200
Network Connectivity	1 x 1GbE RJ45	1 x 1GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	1 x 460W, 550W Power Supply	1 x 460W, 550W Power Supply
Out-of-Band Management	N/A	N/A
Physical Specifications	Height: 13.58 in. (34.5 cm) Width: 6.95 in. (17.7 cm) Depth: 13.19 in. (33.5 cm) Weight: Max config: 23.37 lbs. (10.6 kg)	Height: 13.58 in. (34.5 cm) Width: 6.95 in. (17.7 cm) Depth: 13.19 in. (33.5 cm) Weight: Max config: 23.37 lbs. (10.6 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	2100 BTU/hr. (@550 watts)	2100 BTU/hr. (@550 watts)
Certifications	ENERGY STAR 8.0	ENERGY STAR 8.0

Technical Specifications - Essentials by Pivot3

Tower (SFF) 1-Bay Video Recording Servers and Viewing Workstations

Item	Tower 1-Bay Professional (P1T01)	Tower 1-Bay Standard (S1T01)
Class	Professional	Standard
Role	Video Recording Server	Viewing Workstation
Operating System	Windows 10 Pro	Windows 10 Pro
Server Platforms	Dell Optiplex 3080	Dell Optiplex 3080
Form Factors	Tower	Tower
Processors	1 x Intel Core i3-10100 (4-core) <u>or</u> 1 x Intel Core i5-10500 (6-core) <u>or</u> 1 x Intel Core i7-10700 (8-core)	1 x Intel Core i3-10100 (4-core) <u>or</u> 1 x Intel Core i5-10500 (6-core) <u>or</u> 1 x Intel Core i7-10700 (8-core)
RAM	16GB	8, 16GB
Storage Capacity (raw)	4, 8, 16TB	256GB
Storage Capacity (usable)	3.6, 7.3, 14.6TB	238.4GB
Disk Protection	JBOD	JBOD
Hard Disk (HDD)	4, 8, 16TB 3.5" SATA (storage)	N/A
Solid-state Disk (SSD)	1 x 256GB M.2 (OS)	1 x 256GB M.2 (OS)
Drive Count	1 x HDD + 1 x SSD	1 x SSD
GPU	N/A	UHD630, P400, P620, P1000
Network Connectivity	1 x 1GbE RJ45	1 x 1GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	1 x 200W Power Supply	1 x 200W Power Supply
Out-of-Band Management	N/A	N/A
Physical Specifications	Height: 11.42 in. (29.0 cm) Width: 3.65 in. (9.3 cm) Depth: 11.53 in. (29.3 cm) Weight: Max config: 11.07 lbs. (5.1 kg)	Height: 11.42 in. (29.0 cm) Width: 3.65 in. (9.3 cm) Depth: 11.53 in. (29.3 cm) Weight: Max config: 11.07 lbs. (5.1 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	760 BTU/hr. (@200 watts)	760 BTU/hr. (@200 watts)
Certifications	ENERGY STAR 8.0	ENERGY STAR 8.0

Technical Specifications - Essentials by Pivot3

Tower (Micro) 1-Bay Video Recording Servers and Viewing Workstations

Item	Tower 1-Bay Professional (P0T01)	Tower 1-Bay Standard (S0T01)
Class	Professional	Standard
Role	Video Recording Server	Viewing Workstation
Operating System	Windows 10 Pro	Windows 10 Pro
Server Platforms	Dell Optiplex 3080 Micro	Dell Optiplex 3080 Micro
Form Factors	Tower	Tower
Processors	1 x Intel Core i3-10100 (4-core) <u>or</u> 1 x Intel Core i7-10700 (8-core)	1 x Intel Core i3-10100 (4-core) <u>or</u> 1 x Intel Core i7-10700 (8-core)
RAM	8GB	8GB
Storage Capacity (raw)	2TB	256GB
Storage Capacity (usable)	1.6TB	238.4GB
Disk Protection	JBOD	JBOD
Hard Disk (HDD)	2TB 3.5" SATA (storage)	N/A
Solid-state Disk (SSD)	1 x 256GB M.2 (OS)	1 x 256GB M.2 (OS)
Drive Count	1 x HDD + 1 x SSD	1 x SSD
Network Connectivity	1 x 1GbE RJ45	1 x 1GbE RJ45
Warranty	5 Year Next Business Day	5 Year Next Business Day
Power Supplies	1 x 65W Power Supply, External	1 x 65W Power Supply, External
Out-of-Band Management	N/A	N/A
Physical Specifications	Height: 7.16 in. (18.2 cm) Width: 1.42 in. (3.6 cm) Depth: 7.03 in. (17.9 cm) Weight: Max config: 2.82 lbs. (1.3 kg)	Height: 7.16 in. (18.2 cm) Width: 1.42 in. (3.6 cm) Depth: 7.03 in. (17.9 cm) Weight: Max config: 2.82 lbs. (1.3 kg)
Ambient Temperature	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)	50°F to 95°F (10°C to 35°C) (Altitude < 3048 m)
OperatingRelativeHumidity	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)	20% - 80% (non-condensing); maximum dew point: 26 °C (78 °F)
Thermal Rating	220 BTU/hr. (@65 watts)	220 BTU/hr. (@65 watts)
Certifications	ENERGY STAR 8.0	ENERGY STAR 8.0