

ConteraCMR® High Performance NVR Server











128TB Max Storage Cloud Managed Recorder with Dual NIC, 128* Max Channel Count, and Rack Mountable



ConteraCMR® high performance cloud managed NVR servers are designed to offer maximum performance and reliability, paired with the powerful features and functionality of the ConteraWS® Web Services platform. These 2U servers offer higher channel counts (up to 128*) and feature enterprise options like front removable drives, redundant power supplies, dual SSD OS drives, and RAID5.

High performance NVR servers come preloaded with ConteraVMS® Server software and run the Microsoft® Windows® 10 operating system. These high power servers are enterprise level HD IP recorders with the increased processing and throughput capabilities needed to handle larger channel count, storage, and remote usage requirements.

Enhance the functionality of your server even further by pairing it with ConteraWS Web Services which allows you to centralize user management, monitor the health of your recording system, and take advantage of time saving feature like online export and video or clip file sharing. There is no need to write, remember, or type IP addresses and other network information for remote connections. Simply enable ConteraWS on your recorder, and then connect using the ConteraWS Web Client to manage recorder configurations and user access.

 Cloud Management	 Cloud Video Export and Sharing	 ConteraVMS® License Ready	 Windows Standard OS	 On-Board Storage Up to 128TB	 Front Swappable Drives	 Dual Gigabit NICs	 Dual SSD OS Drives	 8 Drive Capacity	 RAID Storage and Redundant OS Drive Options
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Centralized User Management

ConteraWS provides secure storage of all user profile information, allowing role-based management for hundreds of users and device permissions.



Health Monitoring

Cloud-based health monitoring ensures your cameras and recorders are working properly and minimum recording retention levels are being met.



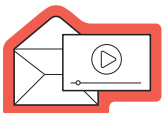
Alerts and Reports

ConteraWS grants insight into operational events at recorder locations and provides valuable business intelligence based on customer or employee activity.



Single Sign-on

Log into ConteraWS Web Services, ConteraVMS, and ConteraMobile® using the same email address and password.



Clip Sharing

Export video clips to the cloud so they cannot be overwritten or lost. Share video clips via email with password protection.

Series Features

- Cloud Management with ConteraWS
- ConteraVMS Ready
- Cloud Video Export and Sharing
- 12, 16, 20, 24, 28, 30, 36, 48, 64, 80, 96 or 128TB Storage Capacity
- 8 Removable Hard Disk Drives (HDDs)
- Windows OS
- 64 Max Channel Count (Upgradeable to 96 or 128)*
- IP Channel Upgrades
- Solid State OS Drive (SSD)
- DVD-ROM Drive
- JBOD and RAID5 Models
- Intel® Core™ i7 Processor
- Dual NIC
- 2U Rack Mountable
- 3-Year Hardware Warranty
- 1-Year Advanced Replacement

* JBOD: 65-96 channels requires additional 8GB System Memory
RAID: 65-128 channels requires additional 8GB System Memory

Recorder Specifications

Model		AV-CSHPXxxT (JBOD)	AV-CSHPXxxTR (RAID)
Recording	Max IP Channels	64 (upgradeable to 96) ¹	64 (upgradeable to 128) ¹
	Recording Resolutions	Up to 4K Ultra HD	
	Max Recording Rate	300 Mbps	400 Mbps
	Image Compression	H.264	
Connections	Video Outputs	1 x DVI-D / 1 x DVI-I / 2 x HDMI ²	
	Maximum Display Resolution	4K	
	Network 1	Dedicated Intel GBE for client network	
	Network 2	Dedicated Intel GBE for camera network	
	Alarm Sensor Inputs	4 x Form A contacts (optional add-on)	
	Digital Relay Outputs	4 x Form A contacts (optional add-on)	
	USB Ports	Front: 2 x USB 2.0 Rear: 2 x USB 2.0 / 4 x USB 3.0	
Software	Operating System	Microsoft Windows	
	Video Signal Loss Detection	Yes	
	Motion Detection	AV Costar camera side or ONVIF Profile S server side	
	Remote Operation	ConteraVMS thick client / thin (web) client / mobile apps	
	User Management	Web or local based user permissions and account management	
	Recording Mode	Continuous / Motion / Continuous + Motion / Live Only	
	Playback Search	Multi-channel playback / Calendar / Timeline / Thumbnail / Event (VMS and web client) / Object (VMS)	
	Clip Backup	DVD-RW / Cloud / USB	
	Digital Signature Support	Yes	
	Web Connect	Yes	

General

Keyboard and Mouse	Included	
DVD Drive	Yes	
Operating Temperature	Max temperature: 104°F (40°C)	
OS Drive Configuration	Dedicated Solid State Drive	
Maximum Storage Configuration	JBOD	128TB
	RAID	80TB (70TB Usable) ³
Processor	Intel Core i7	
Rack Mount	Installation kit and rack slide kit included	
Warranty	3 Years, 1 year advanced replacement	

Compliance

IP Camera Support	AV Costar / ONVIF Profile S / RTSP
Certification	ETL (Intertek) certified
CoO	Made in the USA

Mechanical

Dimensions <i>(See Dimensions)</i>	Unit	17.2" W (438mm) x 3.5" H (88mm) x 26" L (660mm)
	Packaged	24" W (610mm) x 8" H (203mm) x 34" L (864mm)
Weight	Unit	43lbs (19.5kg)
	Packaged	58lbs (26.3kg)

Electrical

Input Voltage	Standard	650W (100V–240V auto switching)
	Redundant	875W (100V–240V auto switching)
Power Consumption	JBOD	160W max
	RAID	175W max

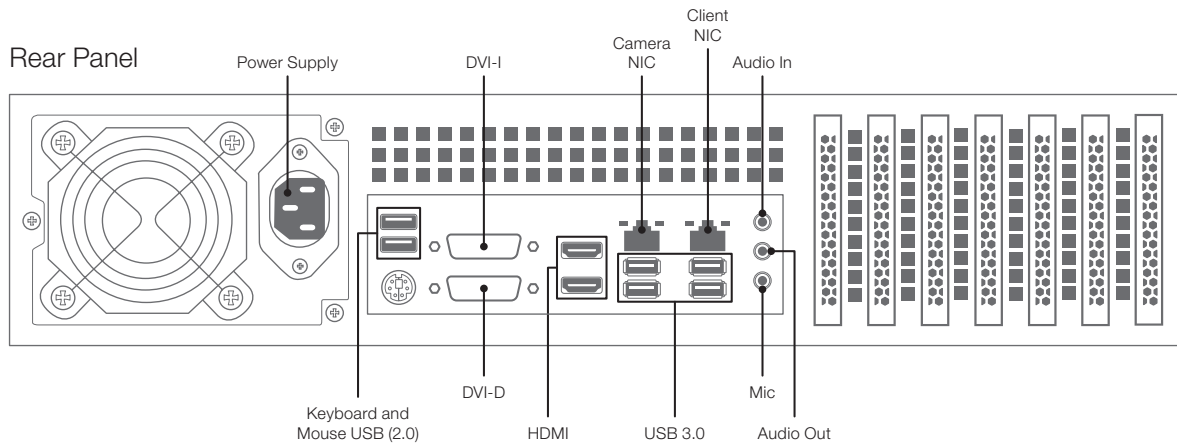
¹ JBOD: 65-96 channels requires additional 8GB System Memory

RAID: 65-128 channels requires additional 8GB System Memory

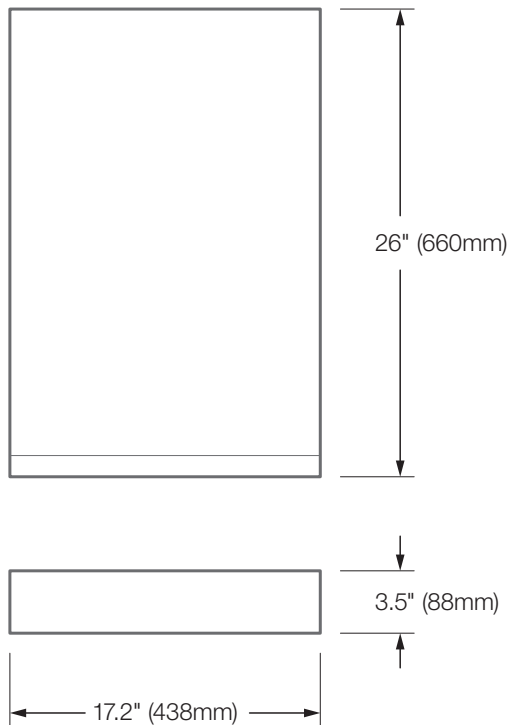
² The DVI-I port and the upper HDMI port cannot output simultaneously

³ Usable space after allocating space for RAID5 redundant backup

Controls and Connections



Dimensions



See Next Page for Ordering Information



Configurations



JBOD or RAID5

Model Numbers

JBOD		
	AV-CSHPX16T	
	AV-CSHPX20T	
	AV-CSHPX24T	
	AV-CSHPX30T	
	AV-CSHPX36T	
	AV-CSHPX48T	
	AV-CSHPX64T	
	AV-CSHPX80T	
	AV-CSHPX96T	
	AV-CSHPX128T	
RAID5	Model	Capacity
	AV-CSHPX12TR	12TB RAID5 (10TB Usable) ¹
	AV-CSHPX20TR	20TB RAID5 (16TB Usable) ¹
	AV-CSHPX24TR	24TB RAID5 (20TB Usable) ¹
	AV-CSHPX28TR	28TB RAID5 (24TB Usable) ¹
	AV-CSHPX36TR	36TB RAID5 (30TB Usable) ¹
	AV-CSHPX48TR	48TB RAID5 (42TB Usable) ¹
	AV-CSHPX64TR	64TB RAID5 (56TB Usable) ¹
	AV-CSHPX80TR	80TB RAID5 (70TB Usable) ¹

Software and Service Licenses

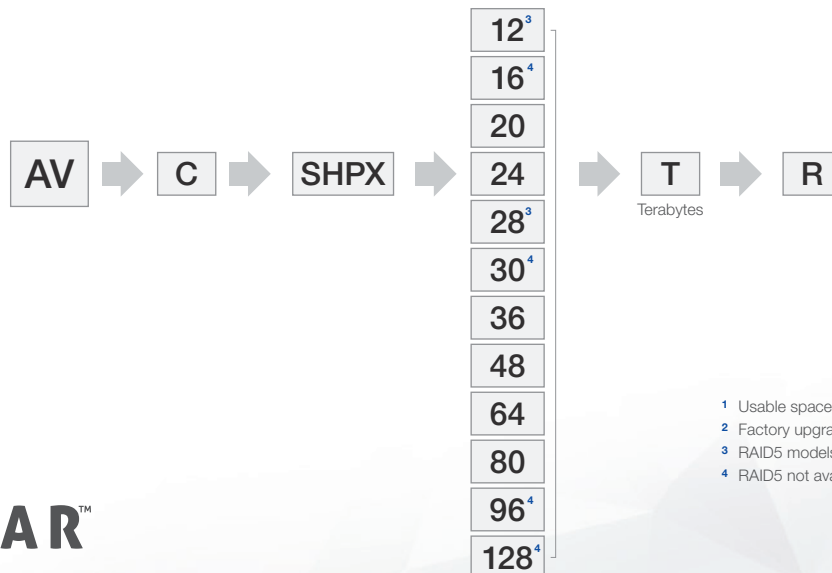
Part Number	Description
ConteraVMS	
ConteraVMS Software Licenses	
AV-CST1	ConteraVMS Standard 1 Channel Recording License
AV-CPM1	ConteraVMS Premium 1 Channel Recording License
AV-CPR1	ConteraVMS Professional 1 Channel Recording License
ConteraVMS Software Expansion Licenses	
AV-CST1-EXP	ConteraVMS Standard 1 Channel Expansion Recording License
AV-CPM1-EXP	ConteraVMS Premium 1 Channel Expansion Recording License
AV-CPR1-EXP	ConteraVMS Professional 1 Channel Expansion Recording License
ConteraVMS Software Upgrade Licenses	
AV-CSUBAPM	ConteraVMS Standard to Premium 1 Channel License Upgrade
AV-CSUPMPR	ConteraVMS Premium to Professional 1 Channel License Upgrade
ConteraWS	
ConteraWS (Web Services) Access License Including Software Updates	
AV-CWS1Y	ConteraWS 1 Year 1 Channel Access License
AV-CWS3Y	ConteraWS 3 Year 1 Channel Access License
AV-CWS4Y	ConteraWS 4 Year 1 Channel Access License
AV-CWS5Y	ConteraWS 5 Year 1 Channel Access License
ConteraWS (Web Services) Cloud Storage Expansion	
AV-CWS1Y50GB	ConteraWS 50GB Cloud Storage Expansion (1 Year)

Factory Upgrades²

AV-CDRPSU820	Dual-Redundant Power Supply, 875 Watt for High Performance Models
AV-CIO4HP	I/O add-on card for High Performance Models (4 x Form A inputs and 4 x Form A relay outputs)
AV-CPERFUPRAM-8	8GB RAM Upgrade for 96/128 ³ Max Channel Upgrade

Create Your Model (Example: AV-CSHPX64TR)

Contera Series High Performance NVR Server Default Storage Storage Type RAID5



- ¹ Usable space after allocating space for RAID5 redundant backup
- ² Factory upgrades must be ordered at the time of purchase
- ³ RAID5 models only
- ⁴ RAID5 not available

