AV COSTAR™

ConteraCMR® NVR Appliance

20TB Max Storage 24 Max Channel Count Cloud Managed Recorder with 8 or 16 Port Built-in-PoE Switch and Dual NIC

AV Costar™ ConteraCMR® NVR Appliance is designed to offer powerful IP recording in an affordable, compact chassis. The NVR Appliance is equipped with an on-board 8 or 16 channel PoE switch, with a recording capacity of up to 24 channels, allowing for Plug and Play connection with AV Costar and ONVIF cameras or RTSP video streams. With full integration to ConteraWS Web Services, the NVR Appliance offers centralized user management, single sign-on convenience, mobile apps and a web client that allows for easy remote connection to your recorders. Network setup is fast and easy using ConteraWS Web Services, and eliminates the need for port forwarding or DDNS. The ConteraCMR NVR Appliance runs on a secure Linux® OS and comes preloaded with ConteraVMS® Server software as a turn key solution.

Cloud Management	Cloud Video Export and Sharing	ConteraVMS® License Ready	Linux Standard OS	On-Board Storage Up to 20TB	Integrated PoE Switch	SSD OS Drive	Dual Gigabit NICs

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 Arecont Vision Mobile 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
- 2, 4, 6, 8, 12, 16, or 20TB Storage Capacity
- 2 Hard Disk Drives (HDDs)
- Linux OS
- Built-in PoE Switch
- 8 or 16 PoE Channels
- 24 Max Channel Count[1]
- IP Channel Upgrades
- Solid State OS Drive (SSD)
- Intel® Celeron® Processor
- Dual Gigabit NICs
- 3-Year Hardware Warranty
- 1-Year Advanced Replacement

[1] 8-PoE channels + 16-non-PoE channels or 16-PoE channels + 8-Non PoE channels

ONVIF | S

Recorder Specifications

Model		AV-CN800	AV-CN1600
Recording	Max IP Channels	24	
	Max IPS Per Channel	30IPS (dependent on camera settings)	
	Built-in PoE Ports	8	16
	Recording Resolutions	Up to 4K (dependent on camera settings)	
	Recording Rate	Up to 100Mbps	
	Maximum Display Resolution	4K (HDMI®) / 4096 x 2160 (DisplayPort)	
	Image Compression	H.264	
	Audio Support	IP camera audio (dependent on camera)	
Connections	Video Outputs	1 x HDMI / 1 x DisplayPort	
	Alarm Sensor Inputs	4 x Form A contacts	
	Digital Relay Outputs	4 x Form A contacts	
	USB Ports	**Front:** 2 x USB 2.0 **Rear:** 2 x USB 3.0	
Software	Video Signal Loss Detection	Yes	
	Maximum Console Live View	16 Channels	
	Maximum Client Side Live View	16 Channels	
	Maximum Search	16 Channels	
	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 (1, 4, 9) / Calendar / Timeline / Thumbnail / Event (VMS and web client) / Object (VMS)	
	Clip Backup	Cloud / USB	
	Digital Signature Support	MP4	
	Web Connect	Yes	
	Operating System	Linux	

General

Network	Dual gigabit NICs	
Keyboard and Mouse	Included	
DVD Drive	N/A	
PoE Switch Load	**8CH**	100W
	16CH	140W
Operating Temperature	Max temperature: 104°F (40°C)	
OS Drive Configuration	SSD	
Storage Configuration	**8CH**	Up to 16TB
	16CH	Up to 20TB
Mounting Hardware	**8CH**	Wall mount kit included
	16CH	Rack mount installation kit included
Warranty	3 Years, 1 year advanced replacement	
System Control	Keyboard, mouse (included)	

Electrical

NVR Input Voltage	52-56VDC	
Power Consumption	**8CH**	135W max
	16CH	200W max
Power Supply Input	100–240VAC auto switching	

Compliance

IP Camera Support	AV Costar / ONVIF Profile S / RTSP
Certification	UL certified
CoO	Made in Taiwan

Mechanical

Dimensions *(See Dimensions)*	**8CH**	Unit	8.7" W (221mm) x 1.7" H (44mm) x 10.8" L (275mm)
		Packaged	20" W (508mm) x 8" H (203.2mm) x 14" L (355.6mm)
	16CH	Unit	11.8" W (300mm) x 1.7" H (44mm) x 11" L (280mm)
		Packaged	20" W (508mm) x 8" H (203.2mm) x 14" L (355.6mm)
Weight	**8CH**	Unit	3.5lbs (1.59kg)
		Packaged	16lbs (7.26kg)
	16CH	Unit	5lbs (2.27kg)
		Packaged	16lbs (7.26kg)

Controls and Connections

Front Panel - 8 Channel
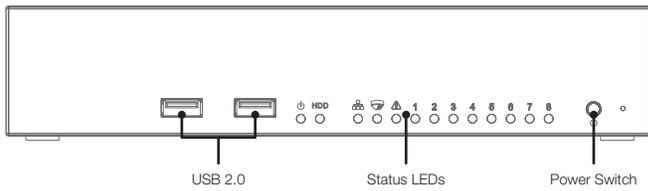
USB 2.0   Status LEDs   Power Switch

Alarm I / O

Client NIC

PoE Ports

Rear Panel - 8 Channel

DisplayPort

Power Input   Audio Input   Audio Output   USB 3.0   HDMI   Camera NIC

Front Panel - 16 Channel

USB 2.0   Status LEDs   Power Switch

Alarm I / O

Client NIC

PoE Ports

Rear Panel - 16 Channel

DisplayPort

Power Input   Audio Input   Audio Output   USB 3.0   HDMI   Camera NIC

Dimensions

8 Channel

10.8" (275mm)

1.7" (44mm)

8.7" (221mm)

16 Channel

11" (280mm)

1.7" (44mm)

11.8" (300mm)
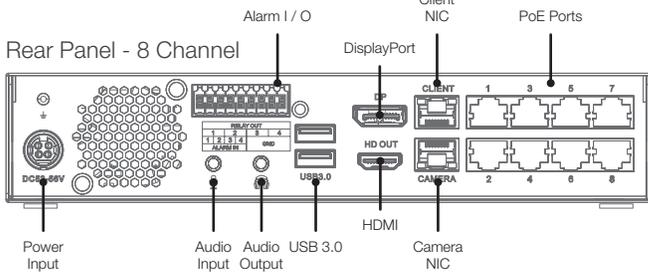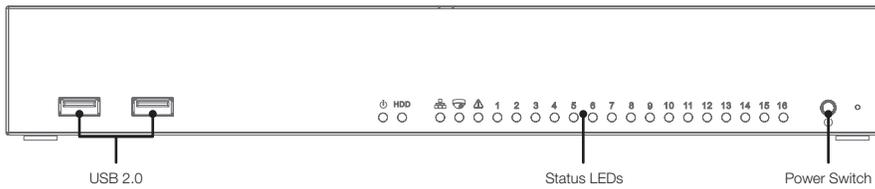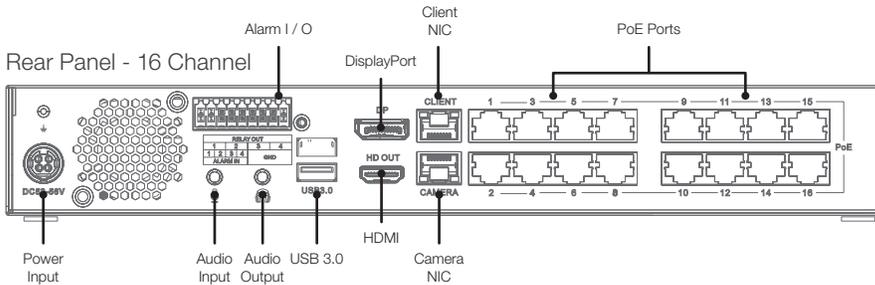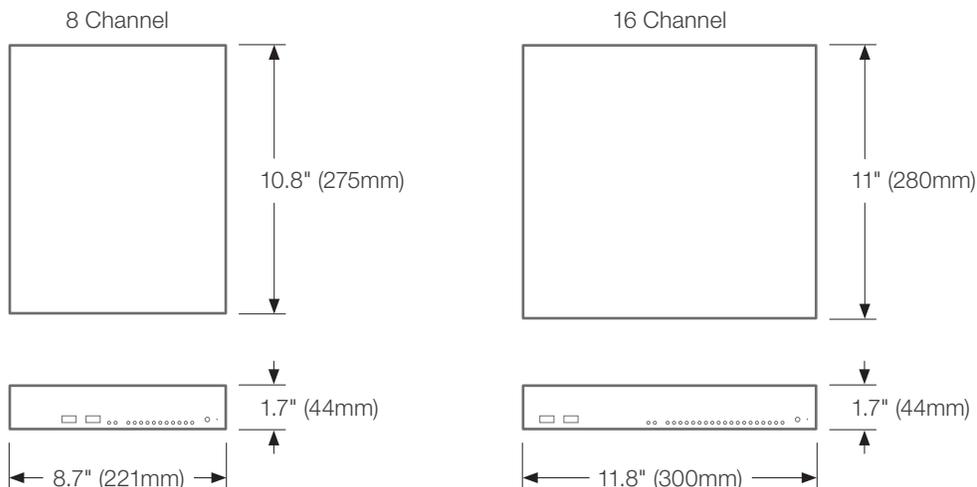
See Next Page for Ordering Information

Configurations

8 Channel   16 Channel

Model Numbers

8 CH	
	AV-CN800-2T
	AV-CN800-4T
	AV-CN800-6T
	AV-CN800-8T
	AV-CN800-12T
	AV-CN800-16T
16 CH	AV-CN1600-2T
	AV-CN1600-4T
	AV-CN1600-6T
	AV-CN1600-8T
	AV-CN1600-12T
	AV-CN1600-16T
	AV-CN1600-20T

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-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)

Create Your Model   (Example: **AV-CN1600-20T**)

	Contera Series	Number of Channels		Default Storage	Storage Type

AV → CN → 8 / 16 → 00 → 2 / 4 / 6 / 8 / 12 / 16 / 20[1] → T
Terabytes

[1] 16 channel models only