

Focus on Manufacturing



Manufacturing and Industrial Surveillance



Leading the Way in Megapixel Video™

- Manufacturers & industrial companies are concerned about protecting their employees, visitors, stock, equipment, & property, from the front office through the manufacturing process to the shipping dock
- Workplace violence prevention/response, business espionage, and theft remain high priorities
- Monitoring all aspects of the business with complete situational awareness becomes possible with Arecont Vision Mega[™] and Contera[®] panoramic cameras

Representative End Users





- Perimeter Security
- Manufacturing Area Surveillance
- Main Gate
- Entry/Exits
- Loading Docks
- Offices

- Warehouse
- Receiving
- Customer Service Counters
- Storage Areas
- Open Areas
- Parking Lots











- Deter Internal and External Theft
- Capture the License Plate of a Robber and Vehicle Description.
- Overall Security with Enough Detail for Customer and Staff ID Megapixel Provides Ability for Facial Detail
- Prevention of False Claims
- Improve Staff Productivity
- Resolve Staff and Customer Disputes
- Increased Coverage of Potential Areas of Concern
- Ability to Cover More with Less (Instead of Manpower to Control PTZs, Panoramic Cameras Can Cover it All
 of the Time)
- Increased Detail Equals Better Forensics and Reduced Time from Security Professionals in Post Event Investigations
- Remote Accessibility
 - Monitor Video Between Administration Offices and Remote Locations



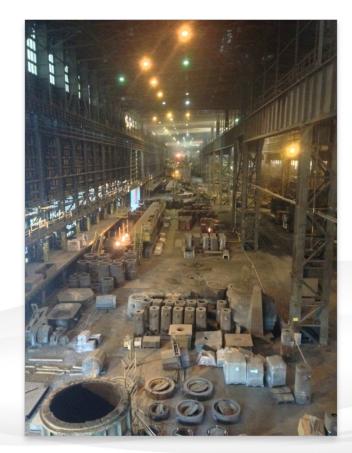


Main Gate/Access Points











Heavy Industrial Facilities

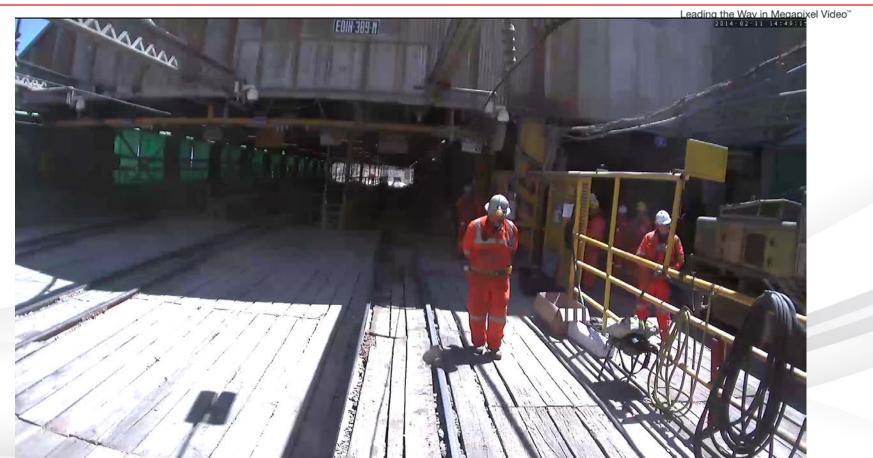
Manufacturing & Packaging





Resources





Resources



















Exterior Loading Docks & Marshalling Areas





Case Studies and News Coverage



Leading the Way in Megapixel Video™

- Pharmacann (news story)
 - http://goo.gl/zreQbw
- SpaceX (news story)
 - http://goo.gl/eOxDNp
- BASF
 - http://goo.gl/z5APcu
- Suez Cement
 - http://goo.gl/0Mm0qk
- Tiskama Kostomaj (Commercial Printing)
 - http://goo.gl/DHNTMR
- POSCO Steel
 - http://goo.gl/YSCbfp
- Dragon Steel
 - http://goo.gl/8hDFUC

"Arecont Vision megapixel cameras provide the extremely clear images that are needed for security monitoring of the facility perimeter.

Even BASF corporate was excited about the difference in quality between the megapixel and analog images."

- Raylene Xie, Tyco Fire and Security China

"A major benefit of Arecont Vision cameras is their reliability.

The use of megapixel cameras versus conventional imaging devices provides remarkable opportunities to realize a return on investment (ROI). The combination of the overall increased resolution and forensic capability using megapixel cameras and the lower system costs was irresistible for Posco-Malaysia."

- Terrence Ham, Sensorlink

HOW I SHOT THE BEAR: WHIRLPOOL CORPORATION





- The Whirlpool Corporation is an American multinational manufacturer and marketer of home appliances, headquartered in Benton Charter Township, Michigan, United States.
- Whirlpool was founded on November 11, 1911, by Frederick, Louis, and Emory Upton
- Whirlpool is the world's largest home appliance maker garnering \$21 billion in annual revenue
- 92,000 employees with 70 manufacturing and technology research centers across the globe
- Whirlpool Corporation markets Whirlpool, KitchenAid, Maytag, Consul, Brastemp, Amana, Bauknecht, Jenn-Air, Indesit and other major brand names in nearly every country across the world

How I Shot the Bear: Whirlpool



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- Whirlpool emphasizes innovation and growth within their company profile and go-to-market strategy
 - \$21 billion in sales
 - 92,000 employees
 - 70 million+ products sold annually



www.shutterstock.com - 333035608

- Whirlpool's innovation and growth initiatives are precisely in line with Arecont Vision's business model which compelled each company to want to do business with the other
 - The challenges facing the client
 - Loss of merchandise at their distribution centers
 - Employee safety within each location
 - o Efficiency in moving merchandise within the distribution centers

HOW WERE WE SUCCESSFUL????????



Leading the Way in Megapixel Video

The Arecont Vision differentiator – PRODUCT DEMO and SYSTEM DESIGN ASSISTANCE

 The Arecont Vision differentiator – By demonstrating what the cameras would provide at their own facility, there was no confusion in terms of customer expectations relative to image quality and capability





- Systems Integrator: SimplexGrinnell a long standing partner of Arecont Vision
- Genetec Security Center Head End to ensure flexibility and open platform expansion
- Reduction of camera count with the use of multi-sensor technology
- With our SNAPstream[™] technology we are able to stream the multi-sensor camera and reduce the storage requirements significantly with very little impact on the existing network infrastructure



Genetec

A Tyco International Company



Omni Camera – the flexible solution





SNAPstream[™] Technology

(\underline{S} mart \underline{N} oise \underline{A} daptation and \underline{P} rocessing)

Highlights:

- Greatly Reduces Bandwidth
- Adapts to Sudden Changes in the Scene
- Lower Storage Requirements













- Interchangeable lenses giving client flexibility to view wider angles or more pertinent points
- 360-degree and 180-degree form factors including AV20275DN and AV20585PM
- Our award winning MicroDome Duo reducing footprint even further

- The flexibility of Generations has given the client more options and price points on the Omni Gen 1 and Gen 2 with the same technology and quality that the product promises
- The Cut Filter for low light conditions (monochrome image) has performed exceptionally well and has provided good low light scenes
- The build quality and design and longevity have given Whirlpool significant ROI
- Client feedback has been extremely positive 'unique and ahead of its time'







SurroundVideo® Omni G1

SurroundVideo® Omni G2

Surround Video® G5 Panoramic







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https://www.arecontvision.com/news.php



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New Product Review





A new look unveiled for our booth at ISC West reflected the entirely new product lines we announced



See more AV show images on Facebook: https://tinyurl.com/y7rsbhjm

2018 Mega™ IP Camera Series



Leading the Way in Megapixel Video™





MegaBall® G2

MegaDome® & MegaVideo® 4K

MegaDome® G3

MegaView® 2

MegaDome® & MegaVideo® UltraHD

MegaVideo® G5



Tri-Mode 1080p/4K/12MP Box Camera H.264 Remote Focus/Zoom, P-Iris Lens, True Day/Night, IP Camera

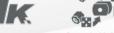
Highlighted Features Include:

- Tri-Mode offers choice of 3 resolutions/frame rate combinations:
 - 12MP maximum resolution @ 20 frames per second
 - 8MP/4K high resolution @ 30 frames per second
 - 1080p resolution @ 60 frames per second
- NightView[™] technology for enhanced low light performance
- SNAPstream[™] (Smart Noise Adaptation and Processing) technology for reduced bandwidth without impacting image quality
- WDR (Wide Dynamic Range)
- Multiple lens options with remote zoom / remote focus and P-iris
- Outdoor housing options













P-Iris Control for Best Depth of Field and Image Clarity (PM Models)



SDHC Card Slot (-S Models)



with IR Cut Filter



CorridorView™ with 90° Image Flip







MegaDome® UltraHD



12MP / 4K (8.3 MP) / 1080p All-in-One H.264 Remote Focus/Zoom, P-Iris Lens, True Day/Night, Indoor/Outdoor Dome IP Camera

Highlighted Features Include:

- Tri-Mode offers choice of 12MP @ 30 fps, 4K (8.3MP @ 20fps), or 1080p @ 60 fps
- Ultra high resolution image quality
- H.264 true day/night indoor/outdoor dome IP cameras
- SNAPstream[™] (Smart Noise Adaptation and Processing) for reduced bandwidth without impacting image quality
- NightView[™] technology for enhanced low light performance
- WDR (Wide Dynamic Range)
- Installer-friendly housing
- Integrated IR LED illuminator









Best Depth of Field







IR LEDS











Arecont Vision® Total Video Surveillance Solution

Arecont Vision ConteraWS[®]
 Cloud Managed Web Services

Arecont Vision Contera®
 IP Cameras

Arecont Vision Mega™
 IP Cameras



Arecont Vision ConteraCMR®
 Cloud Managed Network Video
 Recorder Servers

Arecont Vision ConteraVMS®
 Video Management System

Arecont Vision ConteraSysCon™
 System Configuration Tool



Contera® IP Cameras

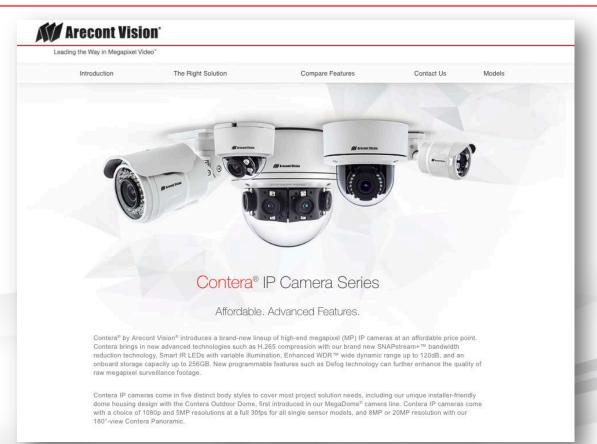






Contera® IP Camera Interactive Web Page





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https://www.arecontvision.com/landing-pages/contera-cameras/overview.php

Contera® Indoor Dome



Leading the Way in Megapixel Video™

Single Sensor Indoor Dome True Day/Night IP Camera

Highlighted Features Include:

- 1080p and 5MP models
- 2.7-13.5mm Motorized Lens
- Enhanced WDR up to 120dB
- **Night**View[™] low light technology
- H.265/SNAPstream+™, M-JPEG
- Integrated IR LEDs with Smart IR adapts to object distance & angle
- SD card slot for onboard storage
- Defog technology
- On Screen Display (OSD)
- Multi-stream at high FPS
- ONVIF Profiles S & G























Arecont Vision









(114.8mm)

Contera® Outdoor Dome

Single Sensor Outdoor Dome True Day/Night IP Camera

Highlighted Features Include:

- 1080p and 5MP models
- 2.7-12mm Motorized P-Iris Lens
- Enhanced WDR up to 120dB
- NightView™ low light technology
- H.265/SNAPstream+™, M-JPEG
- Integrated IR LEDs with Smart IR adapts to object distance & angle
- SD card slot for onboard storage
- Defog technology
- On Screen Display (OSD)
- Multi-stream at high FPS
- ONVIF Profiles S & G
- IP66 environmental and IK10 impact resistance rated



el Video





























and Integrated Lens

Contera® Outdoor Bullet

Single Sensor Outdoor Bullet True Day/Night IP Camera

Highlighted Features Include:

- 1080p and 5MP models
- 2.7-12mm Motorized P-Iris Lens
- Enhanced WDR up to 120dB
- NightView™ low light technology
- H.265/SNAPstream+™, M-JPEG
- Integrated IR LEDs with Smart IR adapts to object distance & angle
- SD card slot for onboard storage
- Defog technology
- On Screen Display (OSD)
- Multi-stream at high FPS
- ONVIF Profiles S & G
- IP66 environmental and IK10 impact resistance rated



















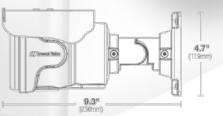


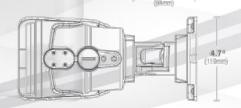












Arecont Vision

Contera® Outdoor Micro Bullet

Single Sensor Outdoor Micro Bullet True Day/Night IP Camera

Highlighted Features Include:

- 1080p and 5MP models
- 3.6mm factory-focused lens
- Enhanced WDR up to 120dB
- NightView™ low light technology
- H.265/SNAPstream+™, M-JPEG
- Integrated IR LEDs with Smart IR adapts to object distance & angle
- Defog technology
- On Screen Display (OSD)
- Multi-stream at high FPS
- ONVIF Profiles S & G
- IP66 environmental and IK10 impact resistance rated

























Contera® Multi-Sensor Panoramic Dome

Multi-Sensor Indoor/Outdoor Panoramic 180° Dome True Day/Night IP Camera

Highlighted Features Include:

- 8 and 20MP 4-sensor models with factory-focused lenses
- Enhanced WDR up to 120dB
- NightView™ low light technology
- H.265/SNAPstream+™, M-JPEG
- Integrated IR LEDs for each sensor channel
- Defog technology
- On Screen Display (OSD)
- Multi-stream at high FPS
- ONVIF Profiles S & G
- IP66 environmental and IK10 impact resistance rated

























and Integrated Lens













Wide Dynamic Range



IR LEDS IR Cut Filter





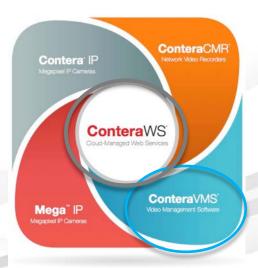


New Arecont Vision White Color for Contera Pantone P179-1C

AV-WMJB-W	Wall Mount Bracket with Junction Box (Mount Cap Not Included) for Contera Large Outdoor Dome and Contera Panoramic Dome, Color: Arecont Vision White	
AV-JBA-W	Junction Box for Contera Large Bullet, Color: Arecont Vision White	
CP-CAP-W	Cap only for Contera Panoramic Dome (8MP and 20MP), 1.5" NPT Male, Color: Arecont Vision White	
MD-CAP-W	Cap only for Contera Outdoor Single Sensor Dome (1080p and 5MP), 1.5" NPT Male, Color: Arecont Vision White	
MCB-JBA-W	Junction Box for Micro Bullet, Color: Arecont Vision White	

ConteraVMS® & ConteraWS®

Video Management Software / Cloud Managed Web Services







- The ConteraVMS is an advanced, fullfeatured Video Management System from Arecont Vision®
- The ConteraVMS can operate as a traditional local surveillance system, or can be greatly enhanced with use of ConteraWS Web Services
- ConteraWS brings the performance and reliability of local recording with the convenience and flexibility of the cloud to Arecont Vision® video surveillance systems





Cloud Managed Web Services with ConteraWS



Simplify Video Access



Eliminate Port Forwarding

Centralize User Management





Store & Share Video Clips
 Online



Remotely Update Software

Leverage Health Monitoring



 Reduce System Maintenance Cost



 Deploy as Thin Client When Appropriate



• The **ConteraVMS** is available with 3 tiered licensing choices per server platform

ConteraVMS Standard License

- Maximum of 16 cameras per server
- Maximum of 3 concurrent remote connections



ConteraVMS Premium License

- Maximum of 64 cameras per server
- Maximum of 5 concurrent remote connections



ConteraVMS Professional License

- Maximum of 128 cameras per server
- Unlimited concurrent remote connections



ConteraVMS® License Comparison

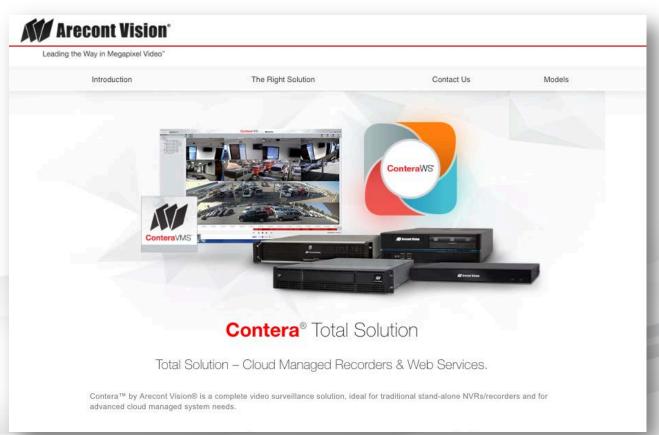


Feature / Capability	ConteraVMS Standard	ConteraVMS Premium	ConteraVMS Professional
Maximum Cameras Per Server	16	64	128
Concurrent Remote Connections	3	5	Unlimited*
Server OS Supported	Windows / Linux	Windows / Linux	Windows / Linux
Expansion Channels	Yes	Yes	Yes
IP Audio Recording	-	Yes	Yes
IP Sensor / Relay	-	Yes	Yes
Native Video Archive	-	Yes	Yes
Per Camera Storage Allocation	-	Yes	Yes
Macro Support	-	Sensor / Relay	All Macros
API Support	Yes	Yes	Yes
IP Camera Support	ONVIF Profile S / RTSP	ONVIF Profile S / RTSP	ONVIF Profile S / RTSP
VM Support	-	-	Yes (Windows)
Camera Link	Yes	Yes	Yes
ConteraWS Enabled	Yes	Yes	Yes
Health Monitoring	Yes	Yes	Yes

Contera® VMS/WS/CMR Interactive Web Page



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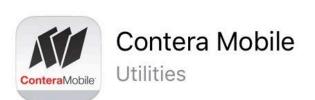


https://www.arecontvision.com/landing-pages/contera-ws/overview.php



- ConteraMobile™
 - Remote viewing with the ConteraMobile app





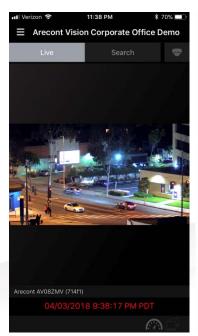


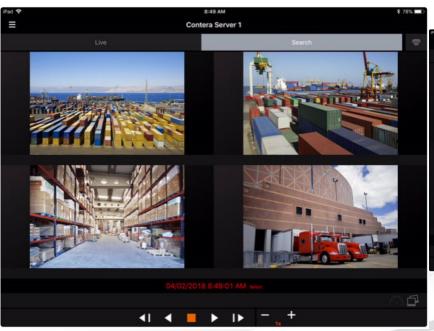


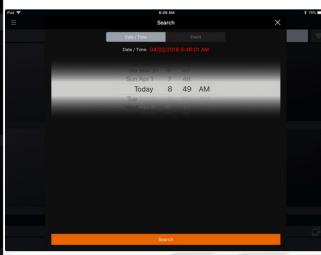














ConteraCMR® Cloud Managed Recorders







- ConteraCMR is a complete line of cloud managed servers & NVRs from Arecont Vision®
- Each ConteraCMR functions as a traditional standalone surveillance platform with the ConteraVMS, or can be greatly enhanced with use of ConteraWS web services



ConteraCMR®



ConteraCMR NVR Appliance



- 8 port models offer 2 -16TB video storage
- 16 port models offer 2 20TB video storage
- Slim desktop appliance
- Linux OS
- Integrated PoE switch
- Ready for ConteraVMS® license

ConteraCMR Desktop NVR Server



- 4 24TB video storage
- Up to 32 channels
- Compact desktop NVR server
- Choice of Windows or Linux
- Ready for ConteraVMS® license

ConteraCMR Compact NVR Server



- 12 40TB video storage
- Available RAID 5
- Up to 64 channels
- 2U compact rackmount NVR server
- Choice of Windows or Linux
- Ready for ConteraVMS® license

Leading the Way in Megapixel Video™

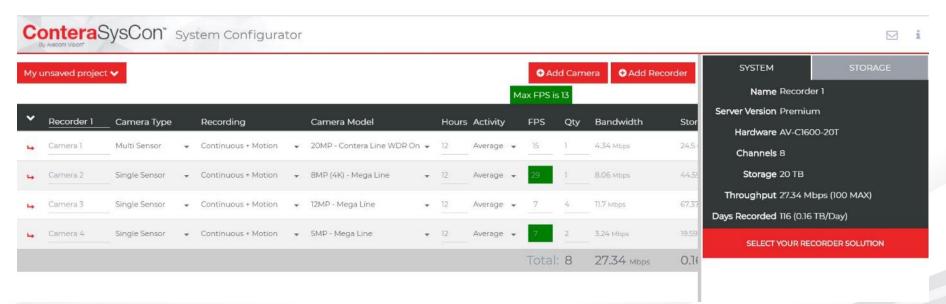
ConteraCMR

High Performance NVR Server



- 16 80TB video storage
- Available RAID 5
- Up to 128 channels
- 2U rackmount NVR server
- Choice of Windows or Linux
- Ready for **ConteraVMS®**license





- The ConteraSysCon is a powerful online systems configuration tool
- Use it to provide complete system configurations featuring Mega[™] & Contera[®] cameras, ConteraVMS[®],
 ConteraWS[®], & ConteraCMR[®] platforms
- Replaces all earlier configuration tools on the AV website

https://tinyurl.com/yavelalo







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