

Arecont Vision® Update

May 2016



Leading the Way in Megapixel Video

- April Sales Record!
- New people on-board in sales, engineering and services
- New products are shipping!
- Excellent Progress with VMS/NVR Partner integration, events, customer project training and execution
- Project Registration is providing substantial separation between standard and registered pricing.
- Quality and Service continue strong improvement and the results show it.

ARECONT VISION MEGAVERTICAL PRESENTATIONS

(Check *arecontvision.com* for other MegaVertical Presentations)

Logistics

Market Overview

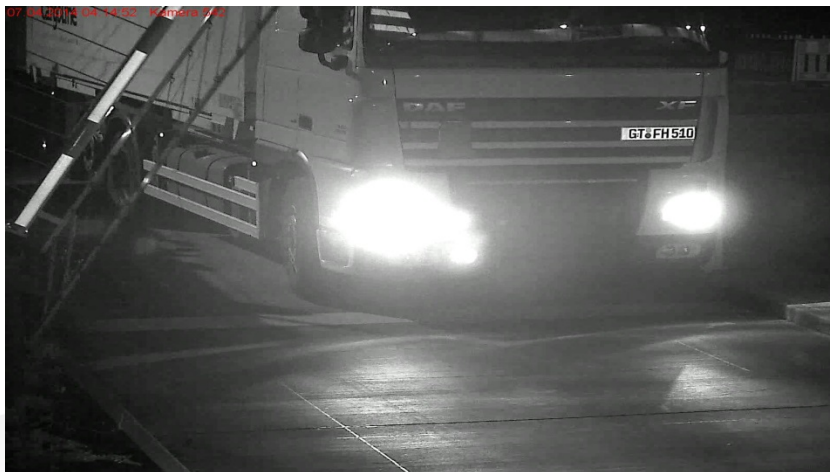
- Logistics and distribution centers around the globe are increasingly making use of video surveillance for security, theft reduction, activity monitoring, license plate and trailer identification capture systems
- Vehicles and shipments can be tracked from they arrive at a facility until they depart
- Greater than 100 billion in goods shipped every year globally
- 45 million packages are shipped in Europe alone every day, 99.8% on schedule and to correct destination
- Megapixel cameras provide high resolution detailed images to security operators as well as for the tracking and management systems deployed

- **Existing cameras with analog resolution**

- *Not enough coverage for high efficiency (too many cameras for the required image quality)*
- *Not enough details (PPM) for reading the licence plate and recognizing the trucks*
- *Not flexible enough for multiple applications due to limited FOV and quality (process visualization, tracking, ...)*

- **Requirements for the new solution**

- *Good overview of the activities in the warehouse*
- *Details at the gates*
- *Low light sensitivity for outdoor usage*
- *LPR reading at the entries/exits*
- *Difficult light situations due to reflections on the package (by foils) and on the ground and at the same time pretty dark areas (permanently changing)*
- *High dynamic range needed to get the details in the truck as well as activities at the gate*



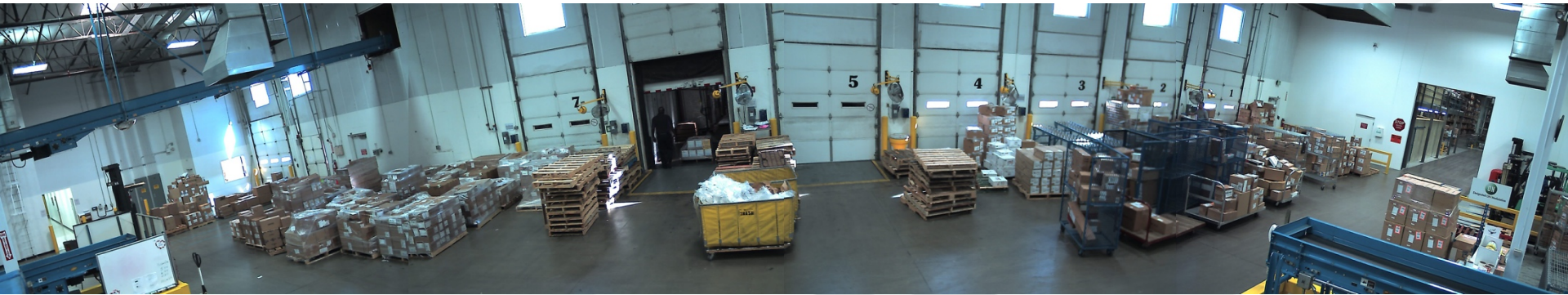
- The complete lane is covered and the license plate plus details of the truck are readable.

Loading Docks



- Detect unsafe situations at high frame rates
- Forensic detail for identifying license plates
- Reduces liability and workman's comp claims (slip and fall / employee injury)
- Monitor freight deliveries for accuracy and deters theft
- Detect loitering and suspicious activity
- High resolution ensures sufficient pixel density is delivered for facial identification
- Determine cause of accident
- Detect expired parking meters or illegally parked vehicles

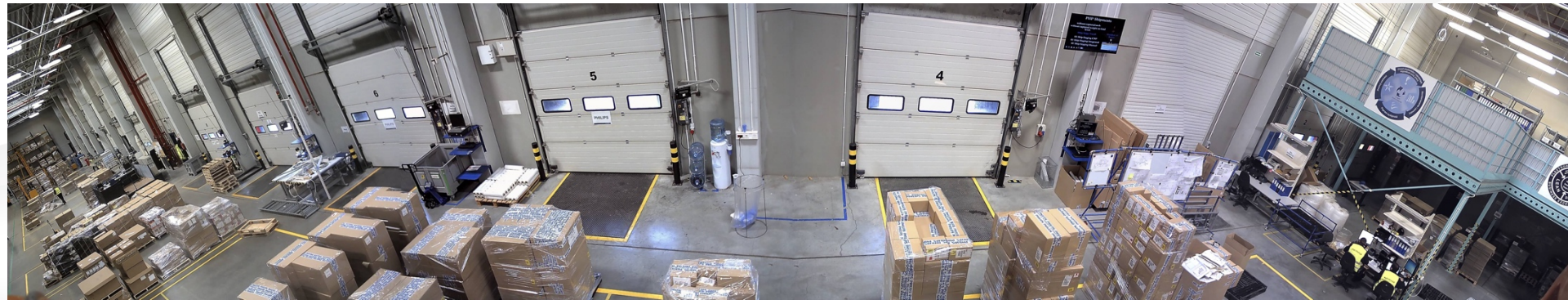
Loading Docks



Loading Docks



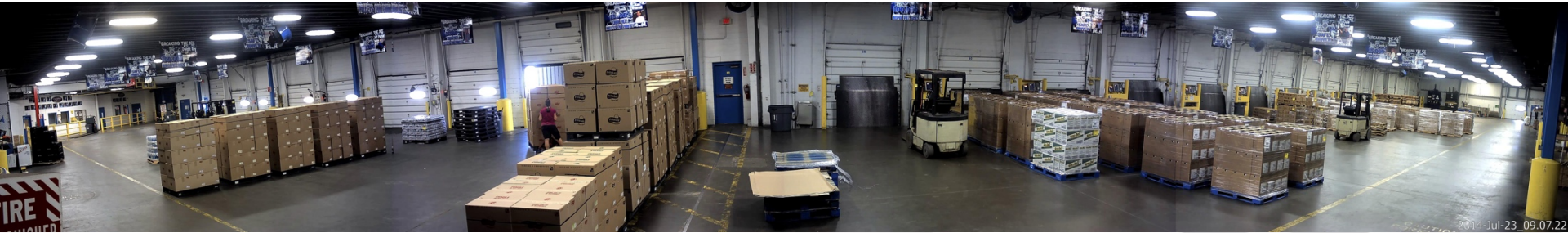
Loading Docks



Loading Docks



Leading the Way in Megapixel Video™







Sunlight shining directly on the goods packed in foil and causing a high contrast in the FOV
(images with and without sunlight)



Loading ramp without and with a truck plus sunlight causing reflections

- Programs released.
 - Try&Buy Program
 - Special Pricing Program on GEN1 via Project Registrations
- New support programs in place to drive better service for our customers.
- SI/dealers should sign up for service parts/demo agreements. That way we can ship immediately and we will not require a credit card. It is fast and simple to do.
- Our new products are shipping now!

Product Update

SurroundVideo® Omni G2

4 User-Configurable Sensors in an
Omni-Directional All-in-One Solution



MegaVideo® Flex

Ultra Low Profile Design Solution



MegaDome® 4K

8.3 Megapixels at 30fps!



SurroundVideo® G5 Mini

Smaller Housing Models Now
Up to 20 Megapixels



SurroundVideo® G5

Now with Remote Focus
and STELLAR™



MicroDome® G2

Now with Remote Focus
and 3-Axis Gimbal



MegaBall® G2

Now with STELLAR™,
Adjustable IR, and More!



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SurroundVideo® Omni G2

4 User-Configurable Sensors in an
Omni-Directional All-in-One Solution

Highlighted Features Include:

- 12 or 20 Megapixel (MP) H.264 All-in-One Remote Focus Omni-Directional User-Configurable Multi-Sensor True Day/Night Indoor/Outdoor Dome IP Cameras
- Multiple Lens Options in a Single Camera Housing from 2.1mm to 16mm
- Up to 4 Individual Camera Gimbals can be Independently Placed in Any Orientation Around a 360° Track Including Looking Straight Down
- True Wide Dynamic Range up to 100dB at Full Resolution
- Increased Frame Rates

Multi-Sensor Omni G2



Interchangeable
Lenses with Motorized
Remote Focus



Omni-Directional Track
with 4 Customizable
Sensors



270° FOV
Capable



Wide Dynamic Range
on 12MP Models



True Day/Night
with IR Cut Filter



Pixel Binning Mode



Ultra Low Profile
Design



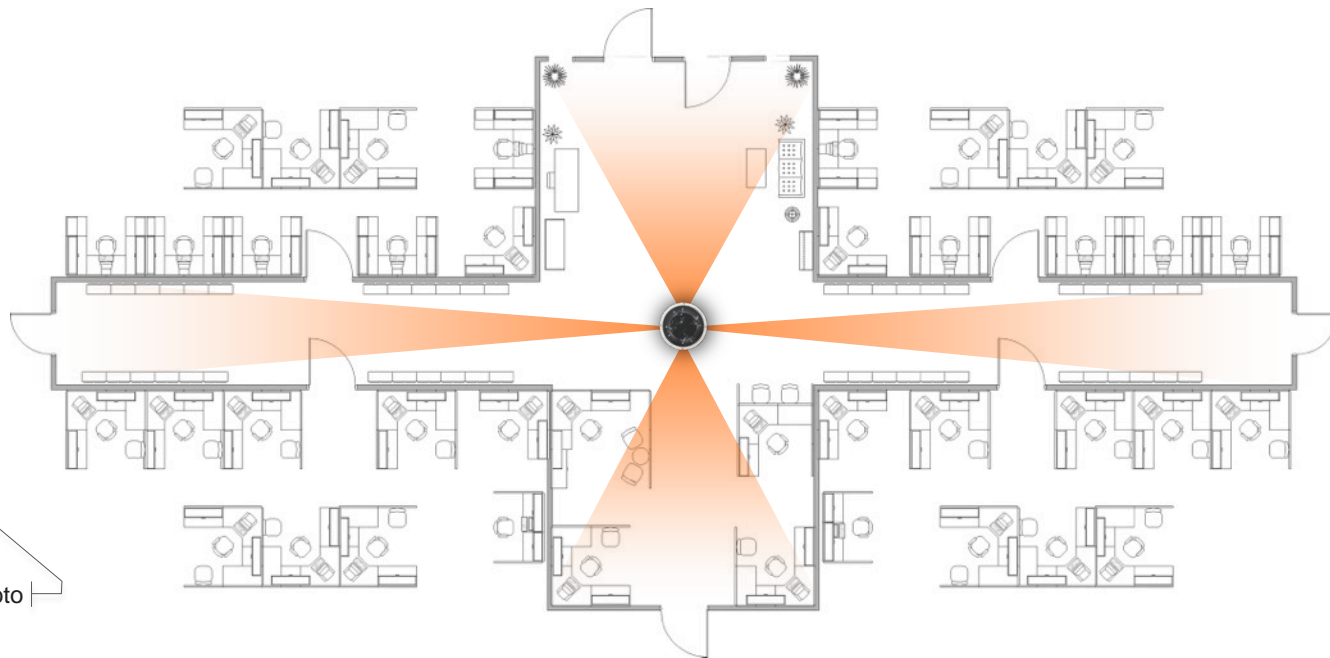
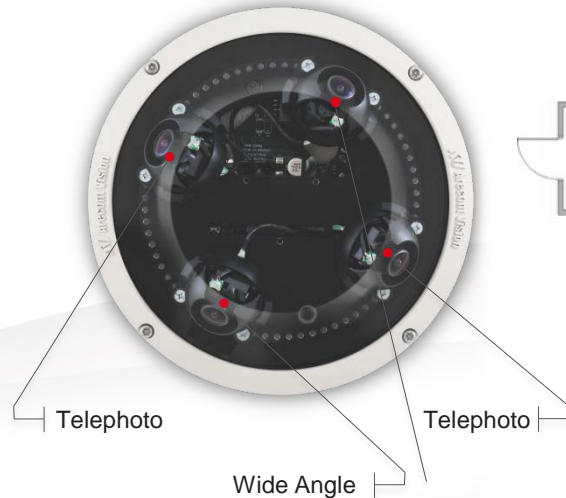
3-Axis Gimbal



Impact / Weather Resistant
IK-10 and IP66 Rated

Possible Scenarios

Indoor Hallway Intersection Layout

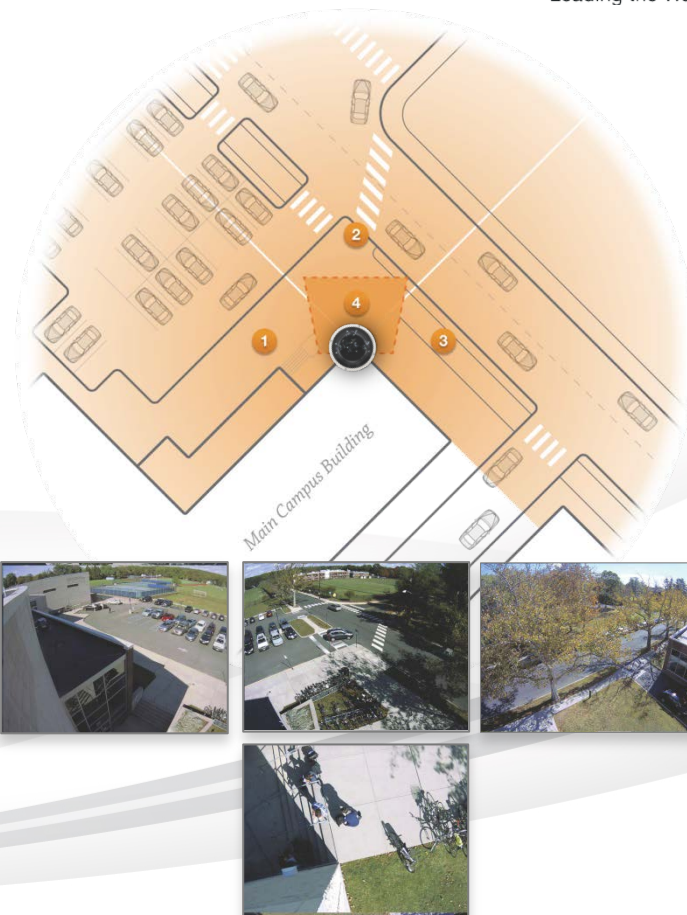


Possible Scenarios

270° Outdoor Layout



4 Wide Angle Lenses
(One pointed to the ground directly below)



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MegaVideo® Flex

Ultra Low Profile Design Solution

Highlighted New Features Include:

- 1.2MP, 1080p, 3MP, and 5MP H.264 Remote Focus True Day/Night Indoor/Outdoor Tethered IP Cameras
- Camera Sensor and Main Unit can be Connected via a USB Cable up to 40ft in Length
- Optional IR LEDs



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MegaVideo® 4K

8.3 Megapixels at 30fps!

4K

Highlights:

- 4K Ultra High Resolution Image Quality
- 8.3MP H.264 True Day/Night Indoor/Outdoor Dome IP Cameras
- 30 Frames per Second
- New Easy-to-Install Housing Design



GEN5
Megapixel IP Cameras



4K Resolution



Integrated Motorized
Lens with Remote
Focus and Zoom



P-Iris Control for
Best Depth of Field
and Image Clarity



True Day/Night
with IR Cut Filter



CorridorView™
with 90° Image Flip



IR LEDs



SDHC Card Slot



Impact / Weather Resistant
IK-10 and IP66 Rated



All-in-One PoE
and Integrated Lens

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SurroundVideo® G5

Now with Remote Focus and STELLAR™

Highlighted New Features Include:

- 5MP, 12MP, and 20MP H.264 All-in-One 180° Panoramic True Day/Night Indoor/Outdoor Dome IP Camera
- Motorized P-Iris Lenses with Remote Focus
- **STELLAR™** (Spatio Temporal Low Light Architecture) on 5MP Models
- True Wide Dynamic Range up to 100dB at Full Resolution
- Increased Frame Rates



180° Panoramic

GEN5
Megapixel IP Cameras

180° Panoramic



180° Panoramic



Integrated
Motorized Lenses
with Remote Focus



P-Iris Control for
Best Depth of Field
and Image Clarity



STELLAR™
Low Light Technology
on 5MP Models



Wide Dynamic Range
(12MP Models)



True Day/Night
with IR Cut Filter



Pixel Binning Mode
on 12 and 20MP Models



Impact / Weather
Resistant IK-10
and IP66 Rated



Dual Encoder
H.264/MJPEG

SurroundVideo® G5 Mini

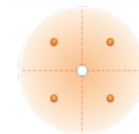
Smaller Housing Models Now Up to 20 Megapixels

Highlighted New Features Include:

- 12MP and 20MP H.264 All-in-One 180° or 360° Panoramic True Day/Night Indoor/Outdoor Dome IP Cameras
- True Wide Dynamic Range up to 100dB at Full Resolution
- Increased Frame Rates



180° Panoramic



360° Panoramic



180° Panoramic



360° Panoramic

GEN5
Megapixel IP Cameras



180° Panoramic



360° Panoramic



Wide Dynamic Range
on Some 12MP Models



True Day/Night
with IR Cut Filter



Pixel Binning Mode



Impact / Weather
Resistant IK-10
and IP66 Rated



All-in-One PoE
and Integrated Lenses



Dual Encoder
H.264/MJPEG

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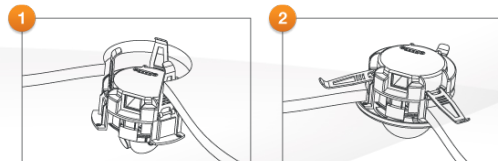


MicroDome® G2

Now with Remote Focus and 3-Axis Gimbal

Highlighted New Features Include:

- 1.2MP, 1080p, 3MP, and 5MP H.264 All-in-One True Day/Night Indoor/Outdoor Dome IP Cameras
- Motorized Lens with Remote Focus
- True Wide Dynamic Range up to 100dB at Full Resolution
- 3-Axis Gimbal



Interchangeable Lenses with Motorized Remote Focus



Ultra Low Profile Design



NightView™ on 1.2MP Models



Wide Dynamic Range Available on AV2556 and AV3556 Models



True Day/Night with Mechanical IR Cut Filter



3-Axis Gimbal



CorridorView™ with 90° Image Flip



Pixel Binning Mode on 3 and 5MP Models



Impact / Weather Resistant IK-10 and IP66 Rated (-S Models)



All-in-One PoE and Integrated Lens

SurroundVideo® Omni G2

4 User-Configurable Sensors in an
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MegaVideo® Flex

Ultra Low Profile Design Solution



MegaDome® 4K

8.3 Megapixels at 30fps!



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MegaBall® G2

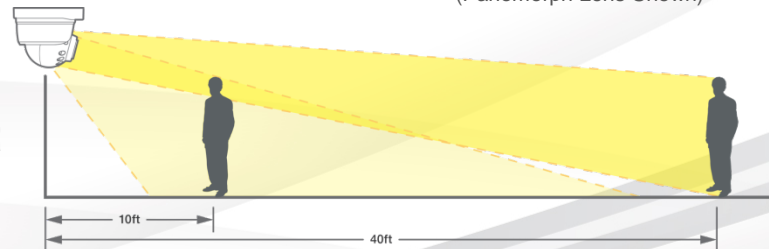
Now with STELLAR™, Adjustable IR, and More!

Highlighted New Features Include:

- 1.2, 1080p, 3, and 5 Megapixel (MP) H.264 All-in-One Motorized P-Iris or Manual Panomorph Lens True Day/Night Indoor IP Cameras
- **STELLAR™** (Spatio Temporal Low Light Architecture)
- True Wide Dynamic Range up to 100dB at Full Resolution
- New Adjustable IR LEDs
- Flush or Surface Mount Domes and New Bell Mount Housing Options



Adjustable IR



Beam Angle and LED Intensity Can be Changed to Accommodate the Distance of Objects in a Scene and the Field of View



Integrated Motorized Lens with Remote Focus and Zoom



P-Iris Control for Best Depth of Field and Image Clarity



STELLAR™ Low Light Technology on 1.2MP Models



Wide Dynamic Range Available on Some 1080p and 3MP Models



Adjustable IR LEDs (IR Models)



Panomorph Lens (-01 Models)



True Day/Night with IR Cut Filter



CorridorView™ with 90° Image Flip (-S Models)



SDHC Card Slot (-S Models)



Integrated Microphone (-A Models)

*Optional Junction Box Sold Separately

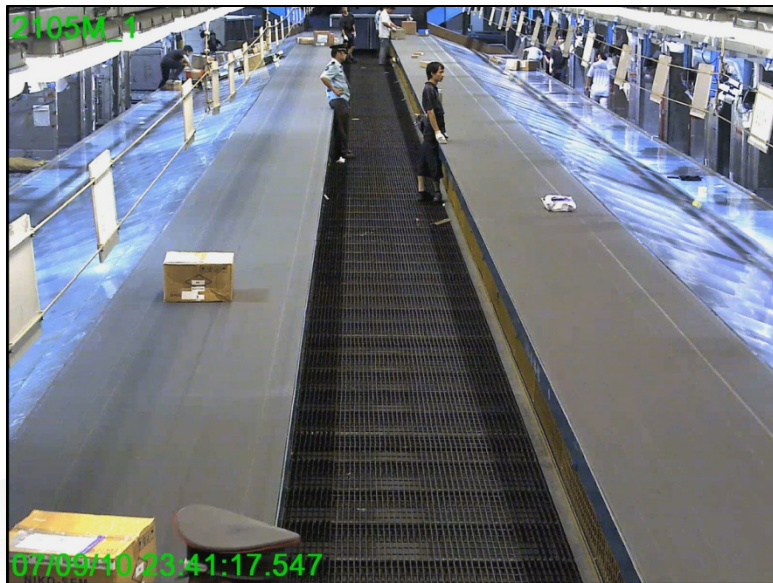
Tech Tips & Tricks:

Megapixel for Warehouse & Logistics

Concerns:

- External Theft
- Internal Fraud/Theft
- Liability - damage to merchandise
- Liability – slip & fall
- Supply Chain and process monitoring





CHALLENGE

With multiple parcels moving through a logistic facility each day, surveillance is a valuable tool to ensure proper handling and document condition of product shipped and received. Also effective to discourage theft and reduce injury liability claims.

SOLUTION

Megapixel cameras are a superior choice with enhanced coverage using less cameras and for overall better ROI. Arecont Vision also offers megapixel wide dynamic cameras in both single sensor and panoramic models offering enhanced exposure performance with difficult areas like loading bay doors and covered truck docks.

Models That Make Sense for Logistics



SurroundVideo® Omni G2



MegaView® 2

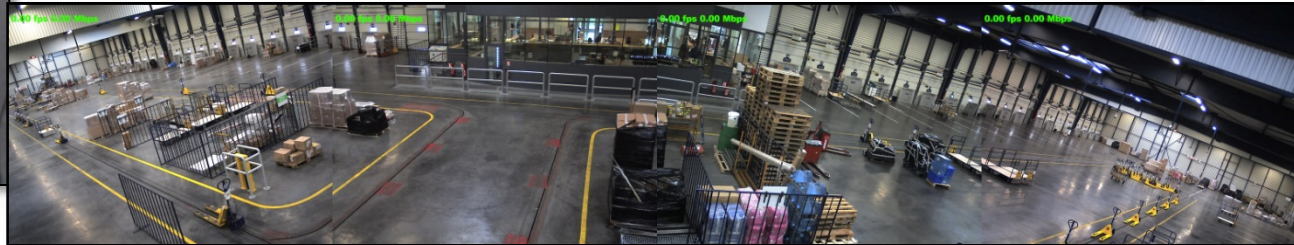


SurroundVideo®

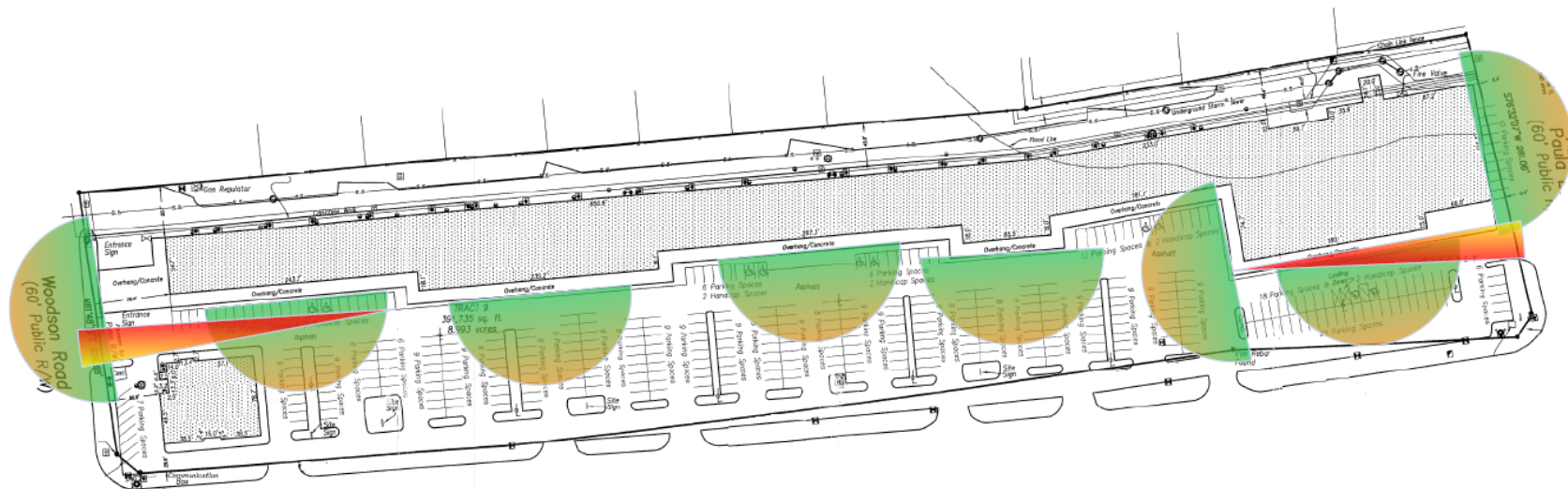


MegaDome® 2

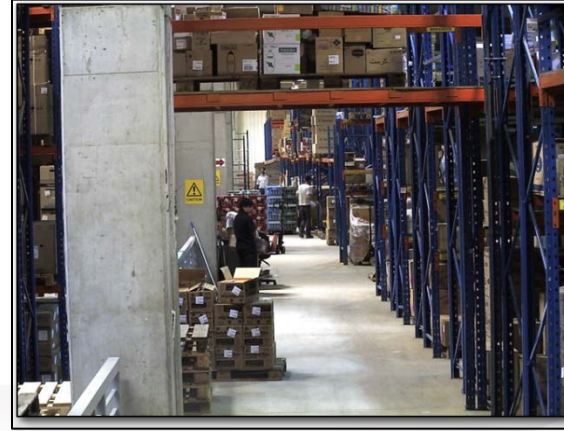
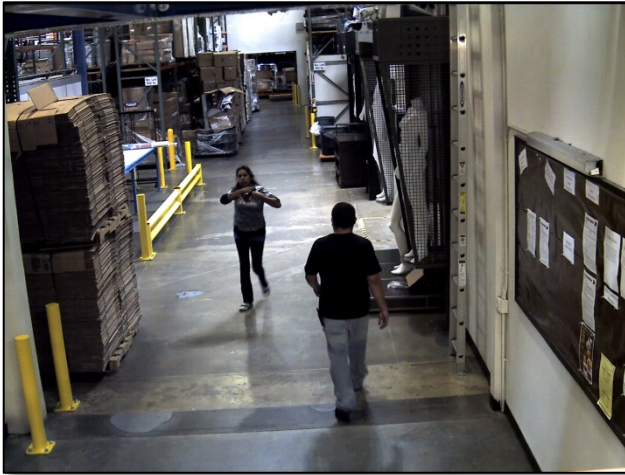
Outside – parking, perimeter, and loading bays



Example outside – parking, perimeter, and loading bays captured with high level of detail using 180° cameras with addition of LPR cameras at entrance points.
Every point in the lot is covered for situational awareness

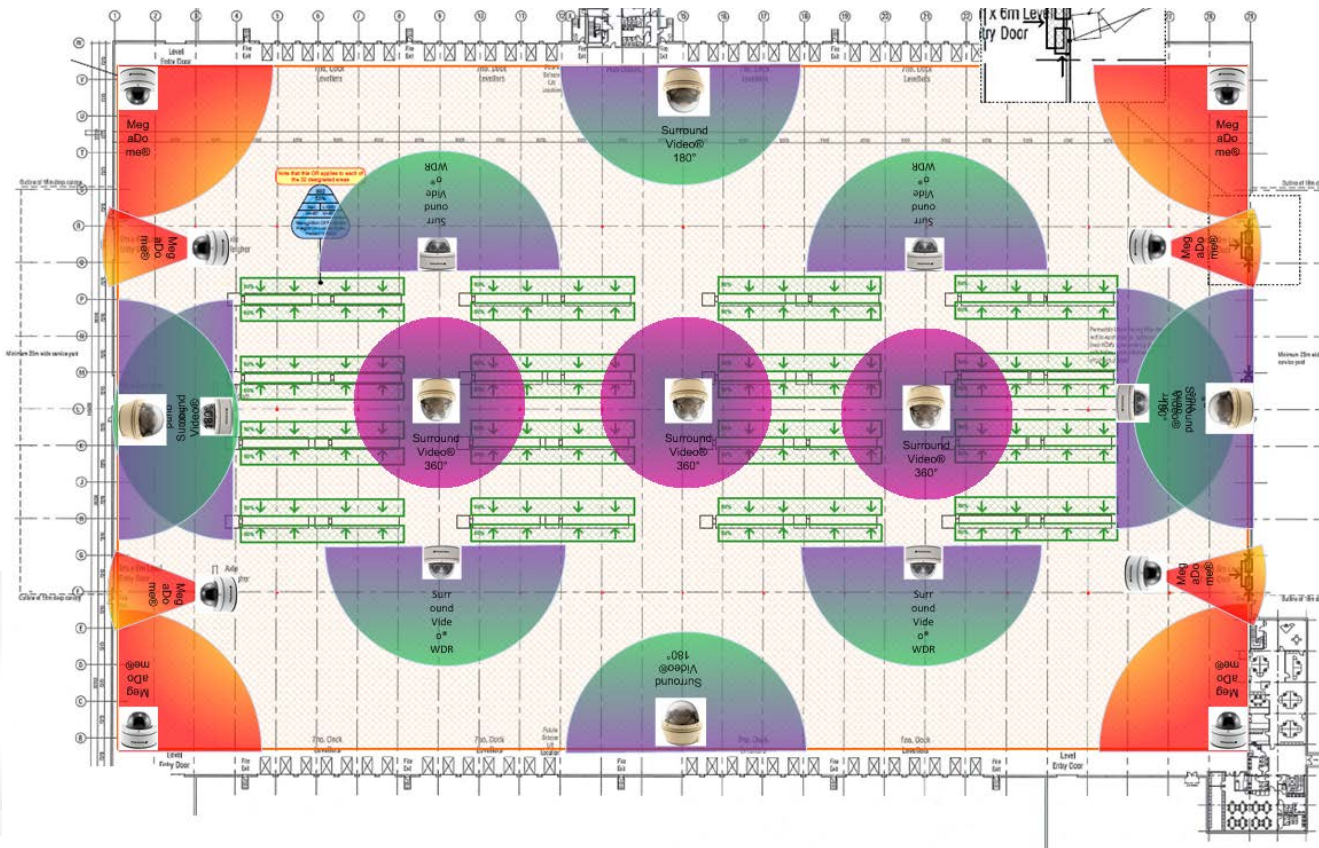


Inside – pallet racks, and receiving areas



Inside – loading bays, and packing areas





Inside –

- **WDR 12mp 180° cameras capture loading bay doors and open floor activity**
- **360° 8 megapixel domes capture everything else**

Less is more for logistics applications

- Installing Megapixel Cameras can:
 - Minimize wire install cost
 - Minimize Camera install time
 - Minimize install Labor cost
 - Reduce software license cost with most VMS solutions
- Benefits after implementation
 - Reduce Injury Claims
 - Help document and investigate damaged product claims
 - Management Can Review Product handling and Safety Processes
 - Reduce and investigate internal and external loss

- Recommended panoramic mounting height is 15-20ft.
- If recommended mounting height is unachievable, for every 10ft the camera is mounted from the ground, expect a 10ft blind spot below, and the camera should be aimed ~100ft (for every 10ft mounted) toward the horizon.
 - Example: a camera mounted at 30ft will have a 30ft blind spot below and should be aimed 300ft toward the horizon.



Recommendation Panoramic Mounting Height: 15-20ft



*30ft mount and aimed 250ft toward horizon.
Result: Less curvature provides better results.*



*30ft mount and aimed only 150ft toward horizon.
Result: Higher curvature produces less desirable results.*



Learn More:

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