

# Increase Your Business with Arecont Vision Megapixel IP Technology

Customer Webinar 15 August 2012

# Agenda



- The State of the Industry
- Product Updates
- Success Story
- Technology Partner Update
- Tech Tips & Tricks
- Marketing Update
- Close & Q&A

Scott Schafer [Executive Vice President]

Raul Calderon [Senior Vice President]

Frank Polidoro [Regional Sales Manager]

Jason Schimpf [Director of Partner Relations]

Ted Brahms [Director of Field Applications]

Marc Ladin [Chief Marketing Officer]



# **Arecont Vision Update**

Scott Schafer August 2012

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## Arecont Vision Results and Direction

# July 2012 Results



- July 2012 was a record sales month for any July in Arecont Vision History!
- 2Q12 was a record sales quarter!
- Key Initiatives for 2H2012
  - Key New Product Releases
  - Improved Price Position in 1.3MP/1080 Product Lines
  - Increased Advertising and Promotion Activity
  - Company Expansion Internationally

# IMS Research Report



From: Wong, Gary [mailto:Gary.Wong@ihs.com]

Sent: Friday, July 06, 2012 8:31 AM

1. What is the Global network/IP manufacturer revenue?

IMS Research estimates the size of the world network video surveillance equipment market in 2011 was \$3.6 billion.

2. What is the % breakdown of network/IP revenue by major geography - Americas, EMEA, APAC, other?

This breaks down as (roughly): EMEA - 30%,

Americas - 40%

Asia - 30%

3. Where does Arecont Vision rank, per your study, in Americas, EMEA, and APAC?

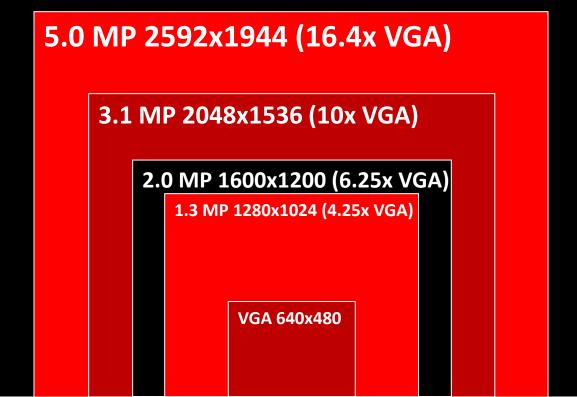
For network cameras: World - 8th position

EMEA - outside of the top ten

Americas - 4th position

Asia - outside of the top ten

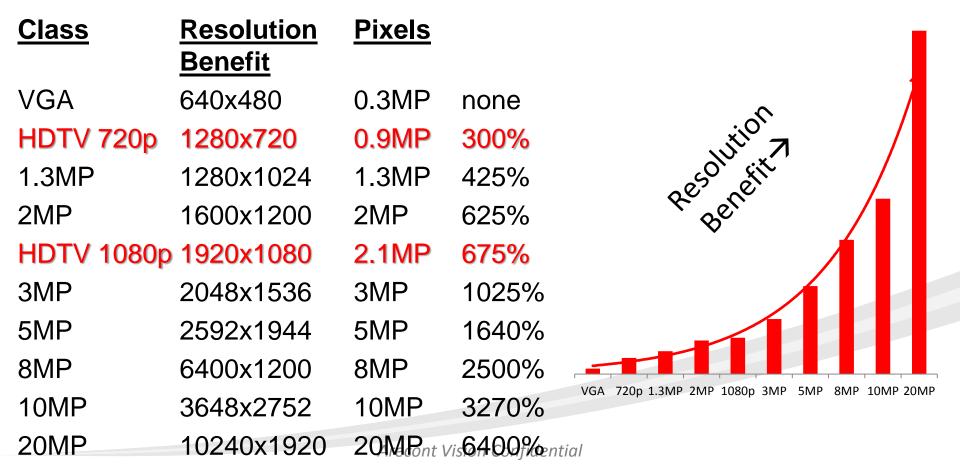
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## Resolution Benefit



**AN** Arecont Vision



# Cost of Megapixel Technology



#### If You Thought Megapixel Cameras Were More Expensive ... Think Again!

There is a misconception in the security industry that megapixel cameras are more expensive than conventional cameras. Don't believe it.

Megapixel cameras provide superior performance and imaging capabilities versus analog and standard definition IP cameras. Megapixel cameras are also field-proven to deliver the most cost-effective video surveillance solutions. To understand real value, it's important to focus not on the price of a single camera but on the overall system cost.

Analog and standard definition IP cameras may be lower-priced than megapixel cameras (on a percamera basis), but these cameras are far more expensive if you evaluate costs system-wide. The truth is that analog and standard IP cameras provide a weak value proposition and a poor return on investment (ROI).

Analog and standard definition VGA IP cameras provide the worst value and therefore are the most expensive cameras you can buy. Next time, go for the best image quality and best price by choosing megapixel cameras. They deliver the best ROI.

# Cost of Megapixel Technology



The following grid illustrates the real cost effectiveness among various camera resolutions. VGA, or standard definition cameras provide about 300,000 pixels per camera. Megapixel cameras provide 1,300,000 to 10,000,000 pixels per camera, or more.

<u>Class</u>	<b>Resolution</b>	<u>Pixels</u>	Pixels/\$1
VGA	640 x 480	307,200	1,536
HDTV 720p	1,280 x 720	921,600	3,686
1.3MP	1,280 x 1,024	1,310,000	4,188
2MP	1,600 x 1,200	1,920,000	5,714
HDTV 1080p	1,920 x 1,080	2,073,000	6,170
3MP	2,048 x 1,536	3,145,728	5,454
5MP	2,592 x 1,944	5,038,848	8,333
10MP	3,648 x 2,752	10,039,296	15,385

This grid clearly shows that the most cost-effective solutions are multi-megapixel cameras. The VGA camera only provides 1,536 pixels per US dollar (\$). Compare that to 1080p cameras at 5,714 pixels/dollar and 10MP cameras at 15,385 pixels/dollar.

(Pixel/\$ calculation is derived by dividing the number of pixels by the price of an indoor dome camera, lens, housing.)

# **Key Actions In-Process**



#### • Product

- MegaDome2 Deliveries to Customers (GCA) 8/12
- WDR Deliveries to Customers (GCA)
   8/12
- 3 Year Warranty USA & Canada
   6/12 Complete
- Quality Improvements in incoming inspection, production, assembly and QC testing, new firmware advances, new network enhancements, and 3<sup>rd</sup> Party VMS integration updates.
- Technical Support Process Improvements and Impressive Results
- RMA Process Improvements
  - · Advance Replacements much more often and more liberal
  - · Process improvements from Service incident to Product Receipt to Fix to Package to Shelf to Shipment

# **Customer Service Improvements**



- Technical support metrics for calls answered within 60 seconds (65%) and 120 seconds (91%) show that we are doing much better in responding quickly to our customers. Only 1-2 customers are leaving tech support messages per day, and those are answered within 2 hours.
- Advance RMA processes are reducing in-process returns significantly.
- Our quality product and process improvements, technical support improvements, and Inside Sales support are really making a noticeable difference.
- Field Application Engineers in America, EMEA, and Asia Pacific regions.
- When you add in the training our field provides, the new on-line training for installation and troubleshooting, and improved products through our early evaluation program prior to full General Customer Availability, things look very good ahead.

## **Key Actions In Process**



#### Promotion

- Rolling Thunder Public Relations Campaign
  - "Thought leading" Articles
  - MegaLab Review by Security Products Magazine
  - Case Studies and Customer Testimonials
  - New Product and Program Releases
  - New Personnel Announcements

#### Price

- Significant improvement in pricing for key products, especially 1.3MP/1080p based cameras and camera systems. 7-12% reduction effective 1 July 2012.
  - AV1115xx
  - AV2115xx
  - D4x-AV1115xx-xxxx
  - D4x-AV2115xx-xxxx
  - D4SO-AV2115xx-xxxx
  - AV1125xx
  - AV2125xx
- 3 Year Warranty USA & Canada

Complete 6/12

# Key Actions In Process



- Marc Ladin joins Arecont Vision as Chief Marketing Officer (CMO)
- Arecont Vision Sales People
  - Joel Murawski, Region Sales Manager, South Central USA
  - Harry Ervin, Region Field Applications Engineer, Eastern USA
  - Cathy Li Yuen Wah, Region Sales Manager, Hong Kong
  - Tony Piyapoj Phakdeesuparithi, Region Sales Manager, South East Asia
- New Sales Representatives
  - No changes
- Recent Wins: Data Centers, Warehouses, Schools/Universities
- Office Expansion: EMEA and Asia Pacific

# Webinar Questionnaire Results



We surveyed attendees of our June Webinar Update

- 93% Outstanding or Good Content
- 91% Outstanding or Good Speakers

If you have ideas for improving these sessions, please let us know.

We do them for you!

## **Customer Satisfaction Measurement**



- Arecont Vision wants to get feedback on our performance and opportunities for improvement.
- Our first Customer Satisfaction Survey started this month.
- If you are contacted, please take a few minutes to respond. We appreciate your feedback.

## Provide the Best



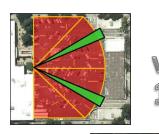
## Superior Image



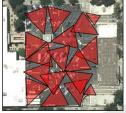
Managed Bandwidth

is the Game Changer

#### Best ROI



3 /s. 17



Customers ask: "Why haven't you shown me this before?"

- Fastest Frame Rates
- Smallest File Sizes

- More detail with fewer cameras.
- Real Savings:
  - Installation
  - Management

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# Arecont Vision New Product Updates

Raul Calderon August 2012



## October Product Releases



#### MegaBall™

#### All-in-one Ball Design

- Indoor All-in-one Product
- 1.3MP, 1080p, 3MP & 5MP
- Surface/In-ceiling Dome & Wall Mount Configurations
- Color & DN Versions
- 4mm fixed or 3.3-10mm Varifocal Versions

#### Fastest Frame Rates

- 14 fps @ 5MP
- 21 fps @ 3MP
- 32 fps @ 1080p
- 42 fps @ 1.3MP
- Casino Mode, Binned Mode, Privacy Masking
- PSIA & ONVIF Compliant



#### MegaBall™



Target Availability
October

#### e.g. 1080p MegaBall Models

AV2145-04-W

AV2145DN-04-W

AV2145-04-D

AV2145DN-04-D

AV2145-3312-W

AV2145DN-3312-W

AV2145-3312-D

AV2145DN-3312-D

## October Product Releases



## MegaBall™ WDR

- 1080p & 3MP versions
- Dynamic Range up to 100 dB
- PSIA & ONVIF Compliant







Target Availability
October



## October Product Releases



## MegaDome<sup>®</sup> 2 10MP

- Addition of 10MP with DN + IR Configuration
- 4.7-9mm RF/RZ/Al lens
- PSIA & ONVIF Compliant

### MegaDome® 2



Target Availability
October



## **November Product Releases**



## MegaDome® 2 WDR

- Addition of WDR Models in 1080p and 3MP
- DN, IR and Audio Configurations
- 3-9mm RF/RZ P-iris lens
- PSIA & ONVIF Compliant

#### MegaDome® 2



Target Availability
November



## December Product Release



## PanoDynamic<sup>™</sup> Camera

- 12MP Wide Dynamic 4 x 3MP sensors
- 180° Configuration 4 x 5.2mm lens
- Dynamic Range up to 100 dB per Sensor
- Smaller Form Factor (same as MegaDome)
- PSIA & ONVIF Compliant





Target Availability
December



## Come See MORE!



Come see these and more new technologies at:

ASIS 2012 in Booth # 3323



Security Essen 2012 in Booth # 2.0 / 517





# "How I Shot the Bear" Success Stories

Frank Polidoro Regional Sales Manager





# An Arecont Vision Synergistic Partnership







A Synergistic Partnership

- Marketing
- Inside Sales
- Arecont Vision Regional Management
- Arecont Vision Local Representation
- Arecont Vision Corporate Support
- Qualified Arecont Vision Integrator



#### A Synergistic Partnership

#### The Opportunity:

#### January 19<sup>th</sup>, 2011 – Website Inquiry

"I am seeking a quality IP megapixel camera line which is fully made in the United States? Currently seeking such to comply with Buy American procurement mandates which apply to a government grant. Do you manufacture and sell such? If so, do you have any US airport installations?

Thanks, Paul

Paul M. Mueller, CPP
Airport Security Manager

"If You See Something, Say Something"

Manchester • Boston Regional Airport 1 Airport Road, Suite 300 Manchester, New Hampshire 03103-7450

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#### A Synergistic Partnership

#### **The Winning Process:**

- 1. Website inquiry was forwarded to Inside Sales.
- The end user was contacted by Arecont Vision Regional Management for further qualification.
- 3. The lead was forward to local representation (Rep Marketing Solutions) to arrange for a local onsite presentation.
- 4. A local qualified integrator was introduced to the end user.
- 5. Arecont Vision worked internally to supply the appropriate Buy America Act documentation.
- 6. The project was closed!



A Synergistic Partnership

#### **Arecont Vision's Distinct Competitive Advantages:**

- 1. Arecont Vision's 20 Megapixel Panoramic Cameras.
- 2. Arecont Vision's 5 Megapixel IR Bullet Cameras.
- 3. Arecont Vision's Compliance to Buy America.
- 4. Arecont Vision's outstanding local support.



A Synergistic Partnership

# Megapixel Value Proposition

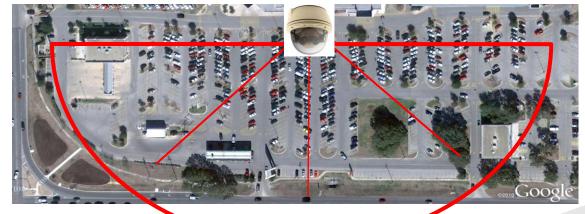
- Camera Reduction
  - Covering a wider FOV results in less lenses, housings, NVR license fees, cable runs, labor time.
  - Less cameras to monitor increases productivity.
- Resolution Increase
  - Megapixel allows you to maximize scene resolution, and yield the best image quality possible producing live and archived video with forensic evidentiary value.
- Camera Reduction + Resolution Increase = Less Cost



#### A Synergistic Partnership

# Arecont Vision Panoramics The PTZ Killers!

- Constantly Recording Entire 180° & 360° FOV
- Viewing Everything All of the Time (Unlike PTZ)
- Live or Post Recorded Forensic Zoom
- More Life Time than PTZ
- · Digital Pan, Tilt, Zoom

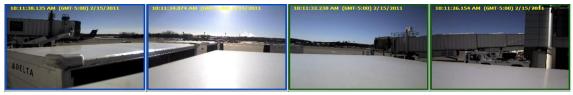






#### A Synergistic Partnership

#### The Arecont Vision 20 Megapixel Panoramic Camera Applications



Runway



**Ticketing** 



**Baggage Claim** 



#### A Synergistic Partnership

- Arecont Vision MegaView<sup>®</sup> Camera
  - 5MP Resolution
  - First 5MP IR Bullet-style Camera
  - Binning Operation for Increased Sensitivity
- All-in-One
  - Integrated Megapixel Camera
  - Integrated 4.5-10mm MP Lens
  - IP66 Housing
  - 3-axis bracket
  - Heater/Blower option

- External Lens Adjustment
  - o Zoom, Focus, Iris
- Flexible Cropping
- Extended Motion Detection
- Privacy Masking
- Complete POE solution





#### A Synergistic Partnership

# The Arecont Vision 5 Megapixel MegaView® Application Low Light Exterior Identification



IR Illumination - Off



IR Illumination - On



A Synergistic Partnership

### **The Winning Result:**

- 1. Currently (74) 20MP panoramic cameras.
- 2. (15) 5MP MegaView® cameras
- 3. GROWING!



# **Technology Partner Update**

# Jason Schimpf Director of Partner Relations







### **Certification Tests**



### **Camera Integration Test**

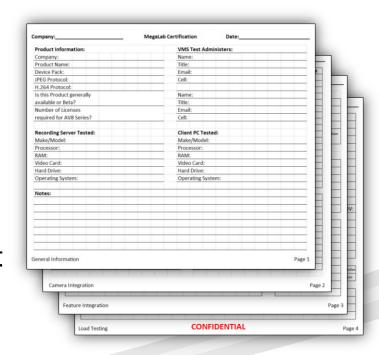
Verifying cameras are integrated

### Feature Integration Test

Verifying which features are controlled

### **Load Test**

- Load 8, 16, 24, 32 & 64 cameras to test Server & Client CPU
- Easily expands to more than 200 cameras upon request





Video Insight

And more to come!

Vigilant

Certified VMS Partners

3VR

Aimetis

**DVTel** 

Exacq

Genetec

GeoVision

**AxxonSoft** 

Verint

**GVD** 

Vicon

LuxRiot Milestone

Next Level

Nice

NUUO

**Toshiba** 

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# Featured in Security Products





process, until now. Arecont Vision set up its own MegaLab several years ago NVRs and video management system software solutions. It is a testing process that makes the best even beter by lining up to become part of Arecont Vision's child of Jason Schimpf, Arecont Vision's direc-

> the company's Glendale, Calif., offices. The and brightness-are controlled by the VMS. MegaLab is meant to test integration and in the testing also work hand-in-hand with company development engineers.

"The MegaLab is the perfect tool to ascompanies can test their compatibility with Schimpf said. "What we've done is created a put up hundreds of cameras to test the software." test ground in a comfortable setting for soft-

one likes taking tests, or the testing ware workers. They can visit our facility and test their products for themselves.

"There is nothing like getting a hands-on experience during to ensure the integration of its own the testing phase. The more testing we complete in our Megasuite of cameras with industry-leading Lab ensures a better integration of our megapixel cameras with

The MegaLab provides a level of integration that partners are able to quantify using their own open-architecture plattechnology partner program. The idea is the brain- forms with Arecont Vision cameras in a completely agnostic environment. The concept is to determine the integration of tor of partner relationships, and resides in a camera and which camera features—e.g., quality, saturation

Rob Shaw, president of Video Insight, had high praise for load performance with the assistance of a the lab because it allows his staff of engineers to load test a quality assurance engineer. Those involved bank of cameras with their video management system. He was equally impressed with the way his VMS worked so smoothly with the Arecont Vision panoramic camera.

"There are a number of schools that we have worked with sist our efforts in expanding the integration that have that panoramic camera," said Shaw, who was awardof Arecont Vision megapixel cameras, while ed the Arecont Vision VMS of the year in the education vertical. "Using the lab allows us to test without having to be in the complementary state-of-the-art technologies," actual customer environment, and it allows us not to have to

Staged in the back offices at Arecont Vision headquarters,

the MegaLab would be easy to miss "We work closely with our partners, Arecont Vision shelves. without a guided tour. The thing that collaborating for the benefit of customstands out is the straight line of camer- ers and the industry as a whole towards as at ceiling height constantly monitor- mutual success for all involved." ing two giant, high-definition screens. The cameras watch in full color as the visitors to the lab facilities.

A Milestone Solutions engineer, who worked with the certification, said that the MegaLab is "definitely impressive. It is nice to have access to all of the cameras there so we can test canabilities across the board."

In fact, Arecont Vision has set up a program through which remote testing can take place. In the past two years, more manufacturers have used the remote option rather than physically spending a couple days in the Glendale offices to test their own products. An average certification generally lasts one day, but it's not unusual for a software developer to spend up to three days performing product testing.

"This MegaLab certification provides a double-check for Milestone to verify the integration is solid between our software and their hardware," said Martin Friis-Mikkelsen, head of strategic alliances at Milestone Systems. "We have the ability to test our integration on a large volume of Arecont Vision cameras at once."

Because the testing facilities are agnostic and programs do not favor one manufacturer over another, there is no finger pointing when it comes to finding and fixing a problem. In fact, Schimpf said that when a problem is found, everyone involved in the test focuses on the fix rather than "who did it."

The Milestone device driver developers-who program the integration between XProtect VMS and alliance partners' hardware devices-do their own final stability testing of new camera models running with a mix of different camera brands. The MegaLab allows partners, such as Milestone, to also check performance with several megapixel cameras at once. It means a lot to Milestone engineers, who test certain configurations and system loads. but also for the development team in the Copenhagen headquarters working with new releases

"The certification will carry extra weight for system installers and end users alike, helping the channel to more confidently sell and implement our joint solutions," Friis-Mikkelsen said

partners begin their testing. Testing connected to more than 100 cameras, core client PC with dual 24-inch display and wireless solutions. began in 2010, and testers are frequent all of which are a brand off of the in the clean work environment.

Three certification tests are offered The MegaLab has a dedicated giga- for camera integration, feature integrabit network and a server rack with tion and load testing. And, soon, the KVM to secure the partner's appliance MegaLab will begin to offer testing out-The MegaLab has a quad core equipment. In addition to a dual quad side of the video management system server with hot-swappable hard drives core server option, it also has a quad realm with testing for optics, housings

### **Quotes from Article:**

"This MegaLab certification provides a double-check for Milestone to verify the integration is solid between our software and their hardware... The certification will carry extra weight for system installers and end users alike, helping the channel to more confidently sell and implement our joint solutions"

- Martin Friis-Mikkelsen, head of strategic alliances at Milestone Systems.

"It is a testing process that makes the best even better" - Ralph Jensen, Editor-In-Chief at Security Products

"Using the lab allows us to test without having to be in the actual customer environment, and it allows us not to have to put up hundreds of cameras to test the software."

- Rob Shaw, President at Video Insight

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### Benefit to Customers



- <u>Design</u>: Test complete design before deployment
- Support: Troubleshoot replicate system to identify problem
- Access: Remotely test design, configuration, etc





# International MegaLabs



- MegaLab China
  - Opens in 2012-Q3
  - Located at our APAC HQ in Shanghai, China

- MegaLab Germany
  - Opens in 2012-Q4
  - Located at our EMEA HQ in Frankfurt, Germany







# Tech Tips & Tricks

# Ted Brahms Director of Field Applications



# Illumination and Its Effect on Megapixel Imaging

Low Light Applications

# **Examining Effects of Illumination**



- Getting the best picture from megapixel in low light requires consideration of site illumination.
- CMOS requires more illumination than lower resolution CCD in low light applications because of smaller pixel sizes.
- Site illumination can have a big effect on improving image quality, frame rate and bit rates produced by megapixel cameras.

# A Backyard Experiment



- The cameras used are all Day/Night models.
- All camera settings were initially left at "factory" default; "Moonlight" mode was used for no light images.
- Camera distance to target was fixed, the license plate is 26'/ 7.92 meters from the front of the camera lens, the far wall is 46' / 14 meters from the same point.
- IR Illuminator used IR148-A120-POE 850nm from illuminar.

## The Cameras



- AV10115DN 10mp, ½.3" CMOS
- AV2115DN 1080p (2mp), ½.7"
   CMOS
- AV3135 3mp Day/1.3mp Night, ½"
   CMOS

# Day Shot





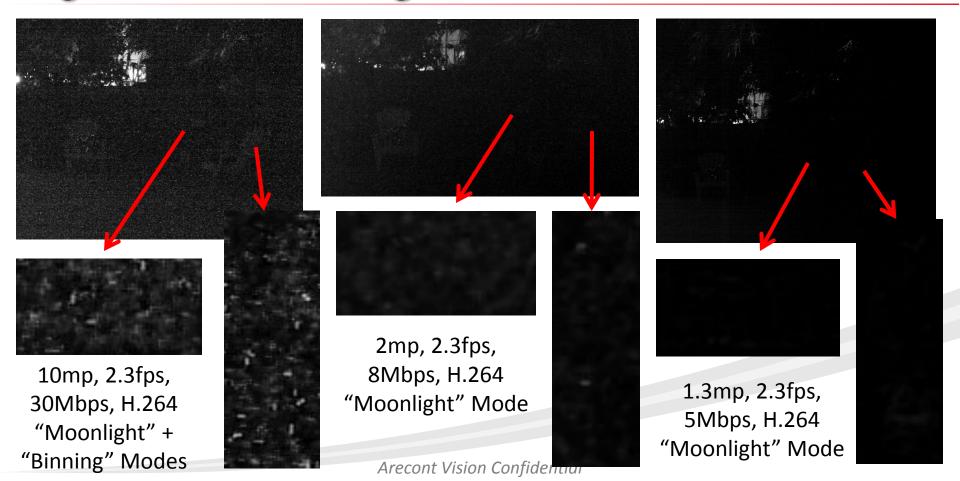


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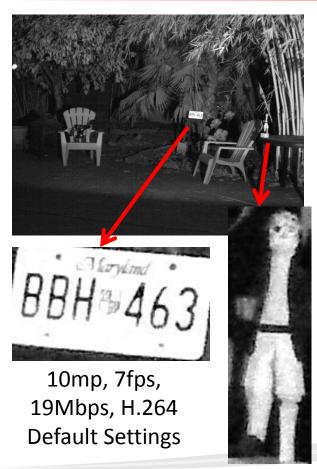
# Night Shot - No Light

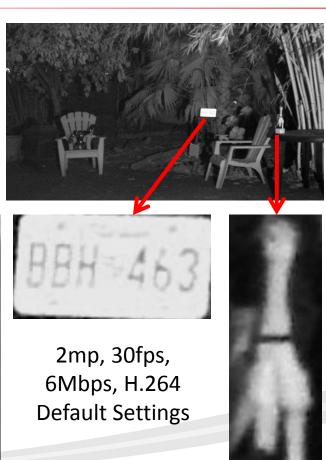




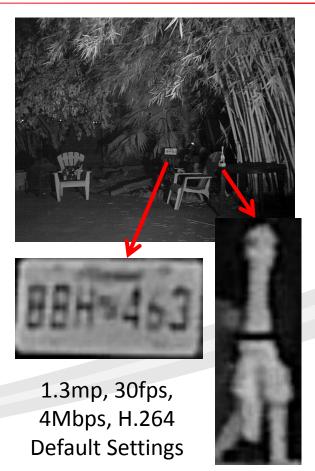
### Enter the IR Illuminator!







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### What Did We Learn?



- Good Illumination is essential in order to get the best possible images at night.
- Image noise and bit rate increase in low light.
- Frame rates drop as exposure time increases.
- Different size sensors respond to low light differently.

## Other Observations



- AV3135 had the most consistent bit rate and least image noise in low light.
- The AV2115DN yields less noise in low light than 10MP.
- With IR illumination, the 10MP AV10115DN can provide an excellent night time image.



# Marketing Update

Marc Ladin
Chief Marketing Officer

## Thank You!

Next Customer Webinars: Wednesday, October 17, 2012