Increase Your Business with Arecont Vision Megapixel IP Technology

Customer Webinar
17 October 2012

blog.arecontvision.com
@arecontvision
facebook.com/arecontvision

megapixel technology...
beyond imagination

Arecont Vision

Agenda

- Company Update   Scott Schafer [Executive Vice President]

- Marketing Insights   Marc Ladin [Chief Marketing Officer]

- Product Updates   Brad Donaldson [Product Manager]

- Success Story   Ethan Maxon [Regional Director]

- Tech Tips & Tricks   Ted Brahms [Director of Field Applications]

- Report on Quality   Darrel Tisdale [Director of Quality]

- Close & Q&A

megapixel technology...
beyond imagination

Arecont Vision

Arecont Vision Update

Scott Schafer
Executive Vice President

megapixel technology…
beyond imagination

Arecont Vision

September 2012 Results

- September 2012 was a record sales month for any September in Arecont Vision History!

- 3Q12 was a record sales quarter!

- Key Initiatives for 4Q12
    - Key New Product Releases
    - Execute Special Product Programs
    - Increased Advertising and Promotion Activity
    - Company Expansion Internationally

Arecont Vision

Key Additions in 3Q12

- Arecont Vision Sales and Marketing Leaders
  - Marc Ladin, Chief Marketing Officer (CMO)
  - Kurt Takahashi, Director, Strategic Systems Integrators Plus*
  - Erin Glackin, Director, Sales Operations and Customer Service
  - Kalman Zhang, Director, China

- Arecont Vision Sales and Support People
  - Evan Boyd, ISM, EMEA
  - Joel Murawski, RSM, South Central USA
  - Harry Ervin, Region Field Applications Engineer, Eastern USA
  - Tony Piyapoj Phakdeesuparithi, RSM, South East Asia
  - Leo Lin, RSM, South China
  - Cathy Li Yuen Wah, RSM, Hong Kong
  - Paul Tao Huang , RSM China
  - Linda Wenjing Qiu, Inside Sales Coordinator, China
  - Jerry He, China Tech Support
  - Tommy Wu, APAC Inside Sales

megapixel technology...
beyond imagination

Arecont Vision

Now Shipping!

- ## MegaDome® 2
  - ### All-in-one Design
    - 1.3MP, 1080p, 3MP & 5MP Resolutions
    - Integrated 3-9mm or 3.6-9mm Remote Focus, Remote Zoom, Auto-iris Lens
    - Day/Night, IR and Audio Options
    - Adjustable 3-axis Gimbal
    - IP66 & IK10 Vandal Resistant Dome
  - ### Total PoE Solution
    - PoE 802.3 af class 3 to Support Camera, Heater & IR LED ring
  - ### Casino Mode, Binned Mode, Privacy Masking
  - ### PSIA & ONVIF Compliant

MegaDome® 2

e.g. 1080p MD2 Models
AV2255AM   : Base
AV2255AM-H : w/Heater
AV2255AM-A : w/Audio
AV2255AMIR : IR LED

megapixel technology...
beyond imagination

Arecont Vision

Now Shipping!

- **Compact WDR**
  - **Dynamic Range up to 100 dB**
  - **1080p & 3MP Resolutions**
    - AV2116DNv1
    - AV3116DNv1
  - **Color & Day/Night Models**
  - **Fastest Frame Rates**
    - 21 fps @ 3MP
    - 32 fps @ 1080p
  - **Casino Mode, Binned Mode, Privacy Masking**
  - **PSIA & ONVIF Compliant**

Compact WDR

megapixel technology...
beyond imagination

Arecont Vision

Customer Satisfaction Measurement

- Arecont Vision wants to get feedback on our performance and opportunities for improvement.

- Our first Customer Satisfaction Survey started in August.

- If you are contacted, please take a few minutes to respond. We appreciate your feedback.

megapixel technology...
beyond imagination

Arecont Vision

Customer Satisfaction Survey

- Do you feel Arecont Vision is a valued partner to your business?
    - 86%- Yes

- **What is your overall satisfaction with Arecont Vision?**
    - Rating Average: 4 on a 5 point scale

megapixel technology...
beyond imagination

Arecont Vision

Customer Survey Next Steps

We are taking the following actions based on the results from the survey:

- Increase communication and promotion of the RMA process and improvements.
- Increase awareness of the Advance Replacement Program through the Tech Support Team, the Web, online hold messaging and through inside sales.

We will be sending out the same survey to a new group of customers each month.

Arecont Vision

Progress

While it takes time to make infrastructure changes that make a real difference, we are making very good progress.

- Quality processes (metrics will follow)
- Technical Support people and processes
- Warranty process
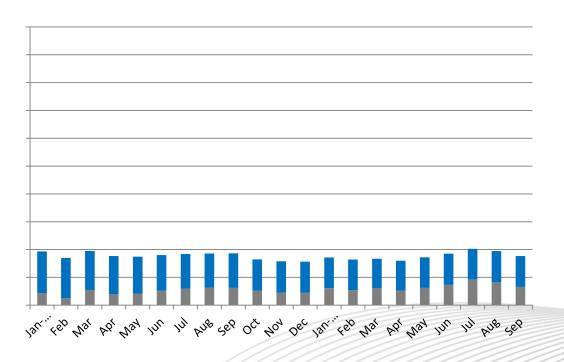- RMA process
- Inside Sales Support people and processes

megapixel technology...
beyond imagination

Arecont Vision

Customer Service Improvement

- New Release Process: FCA →GCA. More thorough QC testing prior to release, including feedback from Partners and Customers
- Customer Service is improving with new people.
- Field Engineering Support improving with more bandwidth and capability.
- On-Line On-Demand Technical Training is launched.
- Technical Support personnel and metrics are much improved.
- Telephone, JIRA system programs and processes are improved.
- Technical Support/ Customer Service weekly meetings
- RMA Process is much improved.

…..but we are not done yet!

megapixel technology…
beyond imagination

Arecont Vision

Technical Support Cases

Legend:
- Phone calls
- Online Support Cases

X-axis: Jan-…, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec, Jan-…, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep

Arecont Vision

RMA Process

<u>**Situation**</u>

- **The RMA Process is rated as one of the key areas for improvement by our customers, our sales representatives, our field and inside sales people, our technical support team and our management team.**

- **We have made significant incremental process improvements to our processes and procedures with very good responses from our customers.**
  - **RMA Process changes and improvements in Technical Support, Receiving and Operations, Finance/Accounting and Shipping.**
  - **Customers may request an Advance RMA**

- **There is more we can do to improve the process for our customers.**
  - **Reduce complexity**
  - **Reduce cycle time**
  - **Consistent expectations and results**

- **There is more we can do to provide a better, consistent economic package for our customers.**

Arecont Vision

RMA Program 3.0

In-Warranty ADVANCE RMA

- Follow Advance Replacement Procedures

- For replacements where the failed unit is returned, the cost to the customer is zero. For replacements not returned within 30 days of the RMA request, customer is charged 40% off product's MSRP. The charges will be made against credit card number or PO number, if the customer has an account in good standing with Arecont Vision.

- RMA for product within 90 days of installation receive a new product replacement. For products installed longer than 90 days, the replacement cameras are reconditioned or new.

- The warranty of the replaced cameras is for the remaining warranty of the original camera. For example, if the RMA occurs 1 year after installation and the original camera warranty was 3 years, the RMA replacement still carries the remaining warranty of two more years.

- The customer may pay for overnight freight if desired. Otherwise, shipments will be standard UPS ground.

Arecont Vision

RMA Program 3.0

<u>Out-of-Warranty ADVANCE RMA</u> (products less than 2 years out of warranty period)
- Follow Advance Replacement Procedures
- The following are the charges for repairing out of warranty cameras by product class:
  - o $175   MegaVideo Compact Repair (i.e. AVxx1x), MegaVideo Mini Repair (i.e. AVxx1x)
  - o $225   MegaView Repair (i.e. AVxx2x)
  - o $275   MegaDome Repair (i.e. AVx5xDN), D4 Series Repair (i.e. D4xAVxxxx)
  - o $400   SurroundVideo Repair (i.e. AVx18x, AVx36x)

- For replacements where failed unit is returned, there will be no additional cost above the repair fees to the customer, unless the camera is damaged beyond repair. For replacements not returned within 30 days, customer is charged 40% off product's MSRP. Charges made against credit card number or PO number.

- The customer may pay for overnight freight if desired. Otherwise, shipments will be standard UPS ground.

megapixel technology…
beyond imagination

Arecont Vision

RMA Program 3.0

Benefits
- Customers get what they want – a replacement camera sent out quickly. This should allow for a 3-day turn around plus 3 day shipping, 6 days total.
- Only customers that want their original camera repaired will be outside of this timeline
- There is no longer any Diagnostic fee.
- We don't wait for payment, which is a major delay in the current process.
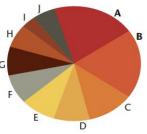- Clearly set expectations and provide a streamlined camera replacement process

megapixel technology...
beyond imagination

Arecont Vision

Growing Revenues

If you had to identify one type of <u>technology</u> to generate more <u>nonrecurring revenues</u>, what would it be?

Key trends: Megapixel IP video exploded by 7.8% to overtake the top position. General video surveillance/CCTV slipped 5.8 percentage points. Mass notification picked up 1.2 points. Among the "other" responses were standalone keyless devices and "analytics that work."

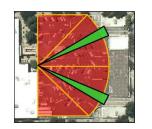|		
A. Megapixel IP video	19.7%
B. General video surveillance/CCTV	17.3%
C. Standard IP video surveillance	11.6%
D. Wireless networks (includes mesh)	9.8%
E. General access control	9.2%
F. Mass notification	8.7%
G. Fire alarm systems	7.5%
H. Upgrading communications/ signal transmission	6.9%
I. Intrusion alarm systems	2.9%
J. Other (please specify)	6.4%

SECURITY SALES & INTEGRATION
Security Sales and Integration Magazine
August 2012, Page 55

megapixel technology...
beyond imagination

Arecont Vision

Provide the Best

Superior Image | Managed Bandwidth | Best ROI

H.264
is the
Game Changer

3 vs. 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

megapixel technology...
beyond imagination

Marketing Insights

Marc Ladin
Chief Marketing Officer

megapixel technology…
beyond imagination

Arecont Vision

Leading the Way in Megapixel Video

Marc Ladin

Chief Marketing Officer

818.937.0700 I mladin@arecontvision.com

Arecont Vision

Company Profile

Arecont Vision protects your most valuable assets by providing the most efficient, highest resolution Multi-Megapixel IP Cameras for the Surveillance Industry.
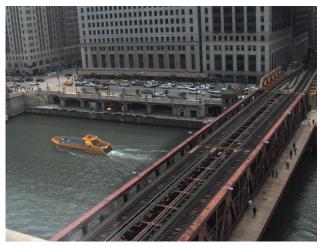
megapixel technology...
beyond imagination

Arecont Vision

Multi-Megapixel Imaging

Arecont Vision

The World's Most Valuable Brands Trust Arecont Vision

megapixel technology...
beyond imagination
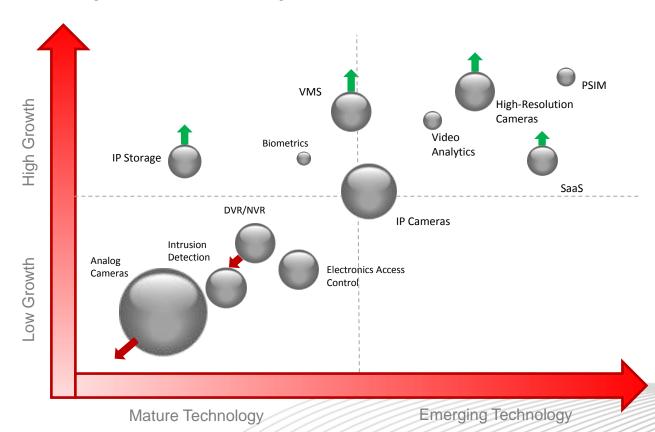
Arecont Vision
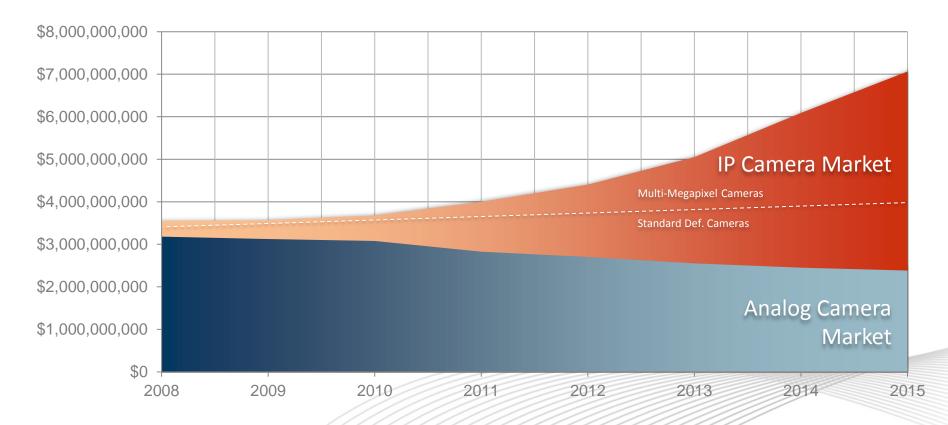
Trends in Physical Security

*Based on Frost & Sullivan Physical Security Trend Dynamics 2011

Move to Multi-Megapixel is Accelerating

IP Camera Market

Multi-Megapixel Cameras

Standard Def. Cameras

Analog Camera Market

- $8,000,000,000
- $7,000,000,000
- $6,000,000,000
- $5,000,000,000
- $4,000,000,000
- $3,000,000,000
- $2,000,000,000
- $1,000,000,000
- $0

2008 2009 2010 2011 2012 2013 2014 2015

megapixel technology…
beyond imagination

ARECONT VISION CONFIDENTIAL
Manufacturer Value (Arecont Vision Estimates 5.12)

Arecont Vision

Pixel per $ – The ROI of Megapixel

Class	Resolution	Pixels	AV Pix / $1
10MP	3648x2752	10,039,296	18,438
5MP	259...	5,038,848	10,179
3MP	2048x...	...	7,149
HDTV 1080p	1920x...	...	5,891
1.3MP	1280x1024	1,310,000	4,039
HDTV 720p	1280x720	921,600	2,836
VGA	640x480	307,200	1,536

12x

Improvement Over Analog

megapixel technology…
beyond imagination

Arecont Vision

When it Comes to Megapixels, What Matters Most

PERFORMANCE   INNOVATION

ROI   QUALITY

CUSTOMER
SERVICE

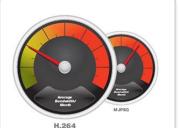megapixel technology…
beyond imagination

Arecont Vision

Performance

20MP DAY/NIGHT PANORAMIC

The First 20MP H.264 Day/Night 180 and 360 Degree Panoramic Cameras on the Market

Highest Resolutions

Most Efficient Compression (H.264)

10x Average Bandwidth and Storage Reduction over MJPEG

180⁰ and 360⁰ Panoramic Imaging

Day/Night

Wide Dynamic Range

Casino Mode

And More…

- Most Integrated
- Image Quality
- Color Accuracy
- Standards-based
  (PSIA Compliance and ONVIF Compliance)

megapixel technology…
beyond imagination

Arecont Vision

Innovation

Multi-Megapixel and Multi-Sensor H.264 Visionaries

Built by Arecont Vision from the Ground Up

First Multi-Megapixel Panoramic Camera

Broadest Multi-Megapixel Product Line

Global Leadership with Customers in 100 Countries

Easy Upgradability Protects Your Investment

Recognized Leader

PSA Security Network
Outstanding New Vendor
Achievement Award — 2012

PSA Security Network
Star Vendor Achievement
Award — 2012

**CPSE Golden Cauldron
Award - 2011**

PSA Security Network
Premier Partner
Status — 2012

Milestone Systems
Camera Partner of the
Year — 2011

megapixel technology...
beyond imagination

Arecont Vision

Quality

Best Practices

Advanced Manufacturing and Quality Control Processes

- Globally Redundant Supply Chain
- Agile Hardware and Software Design Principles
- 3 Separate and Redundant QC Checkpoints
- Industry's Most Responsive Support and RMA Processes
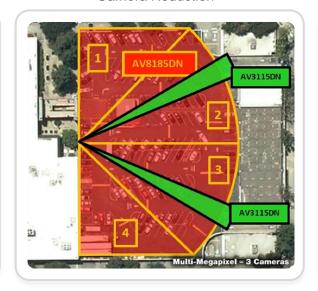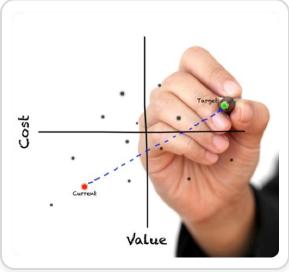
Solid-State Technology

Made in USA

megapixel technology...
beyond imagination

Arecont Vision

ROI

Lowest Cost/ Pixel per Dollar (Pp$)

Pixels	AV Pix / $1
307,200	1,536
921,600	2,836
1,310,000	4,039
2,073,000	5,891
3,145,728	7,149
5,038,848	10,179
10,039,296	18,438

Camera Reduction

Lower TCO
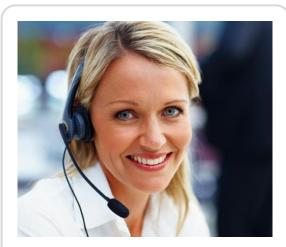

megapixel technology...
beyond imagination

Arecont Vision

Customer Service

At Arecont Vision, customer service is an essential component of our business. We stand behind our products and work hard to provide information and support when and where you need it.
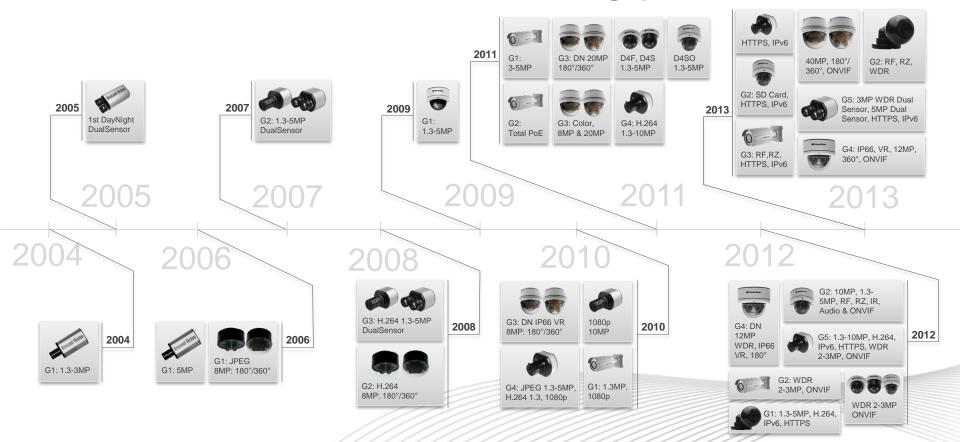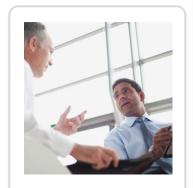

Pre-Sales Support

Post-Sales Service

Global Support Resources

megapixel technology...
beyond imagination

Arecont Vision

The Past, Present and Future of Multi-Megapixel Innovation

2005 — 1st DayNight DualSensor

2007 — G2: 1.3-5MP DualSensor

2009 — G1: 1.3-5MP

2011
- G1: 3-5MP
- G3: DN 20MP 180°/360°
- D4F, D4S 1.3-5MP
- D4SO 1.3-5MP
- G2: Total PoE
- G3: Color, 8MP & 20MP
- G4: H.264 1.3-10MP

2013
- HTTPS, IPv6
- 40MP, 180°/360°, ONVIF
- G2: RF, RZ, WDR
- G2: SD Card, HTTPS, IPv6
- G5: 3MP WDR Dual Sensor, 5MP Dual Sensor, HTTPS, IPv6
- G3: RF,RZ, HTTPS, IPv6
- G4: IP66, VR, 12MP, 360°, ONVIF

2004 — G1: 1.3-3MP

2006
- G1: 5MP
- G1: JPEG 8MP: 180°/360°

2008
- G3: H.264 1.3-5MP DualSensor
- G2: H.264 8MP: 180°/360°

2010
- G3: DN IP66 VR 8MP: 180°/360°
- 1080p 10MP
- G4: JPEG 1.3-5MP, H.264 1.3, 1080p
- G1: 1.3MP, 1080p

2012
- G4: DN 12MP WDR, IP66 VR, 180°
- G2: 10MP, 1.3-5MP, RF, RZ, IR, Audio & ONVIF
- G5: 1.3-10MP, H.264, IPv6, HTTPS, WDR 2-3MP, ONVIF
- G2: WDR 2-3MP, ONVIF
- G1: 1.3-5MP, H.264, IPv6, HTTPS
- WDR 2-3MP ONVIF

Timeline years: 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

megapixel technology...
beyond imagination

ARECONT VISION CONFIDENTIAL

Arecont Vision

It's Easy to Work with Us

Comprehensive Partner Program to Address Your Unique Needs

Distributor Success Program

Channel Partner
Certification Program

Technology Partner Program

A&E Partner Program

Reseller Partner Program

megapixel technology...
beyond imagination

Arecont Vision

Customers Realize Value Everyday with Arecont Vision Solutions

"Installation of Arecont Vision cameras at the Monroe Police Department has given the officers peace of mind. The high quality video enables us to analyze and verify any suspicious activity as well as support improved situational awareness."

— *Detective Jim Frankild*
Monroe, New York Police Department

"We have installed almost every variety of megapixel camera made by Arecont Vision, from the 1.3 megapixel MegaDome® to the 8 megapixel 360-degree SurroundVideo® panoramic camera. We now have better forensic capabilities and more flexibility in the recovery of data."

— *James L. McCarthy Jr., Director of Physical Security,*
George Mason University

"We had perfect vision of live events, but also perfect vision post-occurrence so that we could go back and track anything and any view that may have happened in the park, wherever the cameras are covering. It gave us a path of retribution and recovery should assets go missing"

— *Sharon Kingman*
Director of Information Technologies,
World Equestrian Games

"The addition of Arecont Vision's megapixel camera solutions allowed us to get better picture quality from cameras that cost less than competing VGA cameras. It has great picture quality, works easily and is reliable."

— *Brad Balonick*
Information Technology Systems Coordinator at
Lake Forest High School

"The megapixel video system has really come into its own in other aspects outside of the basic security requirement that we had. We've noticed that by having the cameras in strategic locations we can really control the amount of incidents or alleged incidents that take place at the dealership"

— *Peter Wilson, Owner,* **Orlando Infiniti**

megapixel technology...
beyond imagination

Arecont Vision

The Arecont Vision Advantage

Arecont Vision protects your most valuable assets by providing the most efficient, highest resolution Multi-Megapixel IP Cameras for the Surveillance Industry.

Performance   **Innovation**   **Quality**   **ROI**   **Customer Service**

Thank you!

Arecont Vision

- **Offer details:**
  - Buy a WDR MegaVideo Compact 3MP camera at the WDR MegaVideo Compact 2MP price.
  - Buy any 5MP camera at the 3MP price! MegaVideo Compact, MegaDome, MegaDome 2, MegaView and D4S/D4F/D4SO.
  - Buy a MegaVideo Compact 10MP camera at the 3MP price!

megapixel technology...
beyond imagination

Arecont Vision

Product Updates

Brad Donaldson
Product Manager

Arecont Vision

Wide Dynamic Range

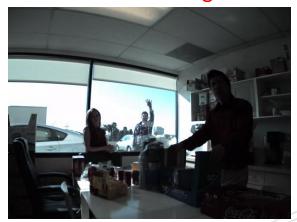megapixel technology…
beyond imagination

Arecont Vision

What is Wide Dynamic Range?

Wide dynamic range (WDR) is a feature that combines two images at different shutter speeds in such a way as to capture the details of the scene in both the bright and the dark areas simultaneously.

Non-WDR Image

WDR Image

Arecont Vision

Wide Dynamic Range

Example Use Cases

- Applications with windows where the field of view captures both indoor and outdoor activities.
  - Retail
  - Banking
- Areas that have both bright and dark areas simultaneously.
  - Airports
  - Schools / Campuses
  - Prisons
  - Parking Garages

Arecont Vision

Wide Dynamic Range

The Arecont Vision MegaVideo® Compact WDR is designed for <u>high contrast</u> surveillance applications that require high resolution, low bandwidth images at an affordable price point.

- Available in 1080p and 3MP Resolution
- Industry's fastest frame rates
- True wide dynamic range of up to 100dB at full resolution
- ONVIF and PSIA conformant for maximum interoperability
- No resolution loss in WDR mode
- NEW installer friendly web interface
- Small form factor
- Designed to be backward compatible with non-WDR Compact Series

**megapixel technology...
beyond imagination**

Arecont Vision

Wide Dynamic Range

MegaDome®2 WDR
H.264 IP Megapixel Camera
Coming Soon

- Remote focus / zoom
- All-in-one, total PoE solution
- P-Iris technology

MegaBall™ WDR
H.264 IP Megapixel Camera
Coming Soon

- Modern, installer friendly design
- All-in-one, PoE solution

megapixel technology...
beyond imagination

Arecont Vision

Wide Dynamic Range

12MP WDR PanoDynamic™

180° Panoramic SurroundVideo®

H.264 IP camera

Coming in 2013

- Compact Design
  - Same housing as MegaDome!
- Vandal and weather resistant dome
- PoE or external power options
- Binned mode for improved low light performance
- 2 axis gimbal (pan + tilt)
- PSIA and ONVIF conformant

World's 1st WDR Panoramic Camera

megapixel technology...
beyond imagination

Arecont Vision

Wide Dynamic Range

Key Takeaway #1

1.   **One configuration**

Arecont Vision WDR technology provides an optimized image automatically with no manual changes in settings.

Arecont Vision

Wide Dynamic Range

Key Takeaway #2

2. Not all WDR is True WDR.

- Arecont Vision WDR technology provides up to 100dB of wide dynamic range at full resolution.
- Beware of competitors that claim WDR but:
  - Resolution significantly drops in WDR mode or,
  - The camera is only "WDR Enhanced", not true WDR of 100dB

0dB ←———— Typical Security Camera Dynamic Range ————→ 60dB ←——— Wide Dynamic Range ———→ 100dB

Arecont Vision Dynamic Range

Wide Dynamic Range

Key Takeaway #3

3. Complete WDR product line for any installation.

megapixel technology...
beyond imagination

Arecont Vision

Sales Success Stories

Ethan Maxon

Regional Director — Southern Hemisphere

Arecont Vision

How I Shot the "Springbok"
Shell Kensington

SI – Enforce Electronics

megapixel technology...
beyond imagination

Arecont Vision
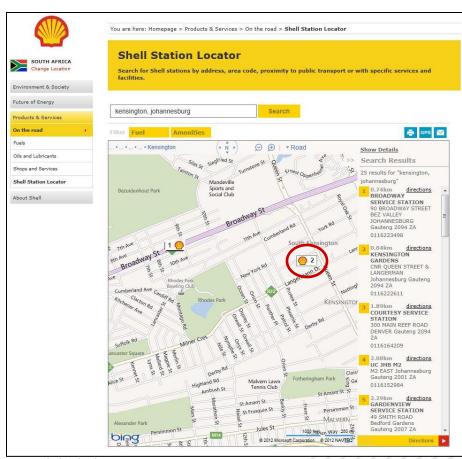
What is a "Springbok"

Customer

Shell Station Kensington Gardens

Johannesburg

South Africa

megapixel technology...
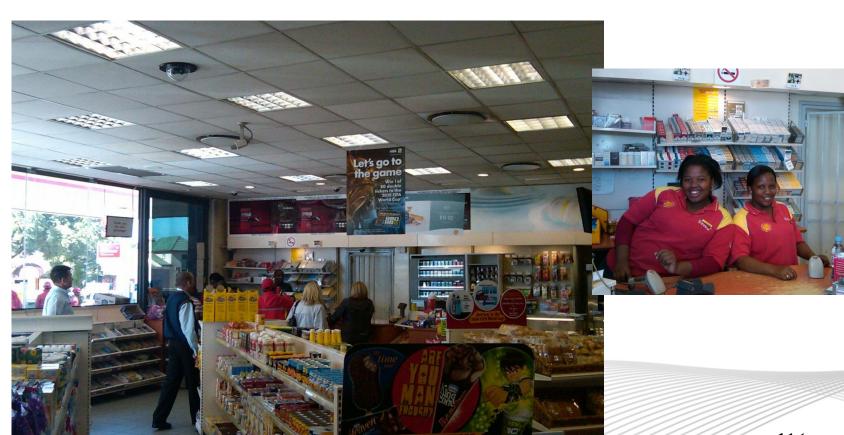**beyond imagination**

Arecont Vision

Challenges

- Challenge #1 – efficient coverage of retail area capturing faces at the cash register, lessening shrinkage, and showing general view of retail aisles.

- Challenge #2 – having general view of "forecourt" area around gas dispenser islands and capturing license plates of cars.

megapixel technology...
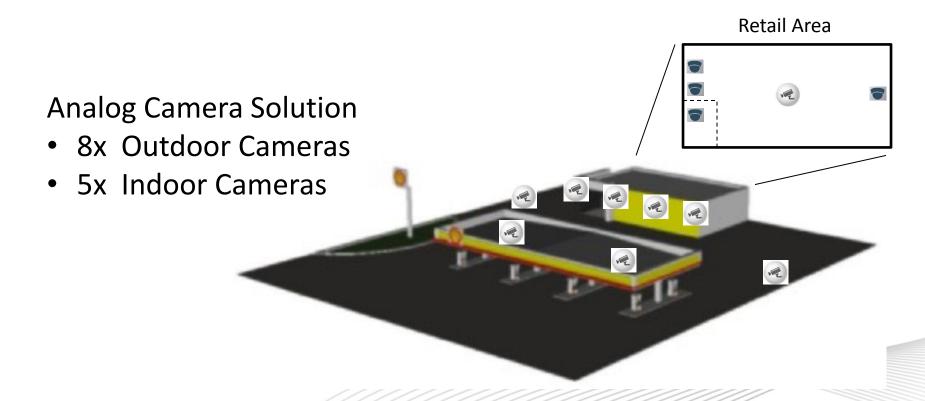**beyond imagination**

Arecont Vision

Challenge #1 – Retail Area

Arecont Vision

Challenge #2 - Forecourt

Arecont Vision
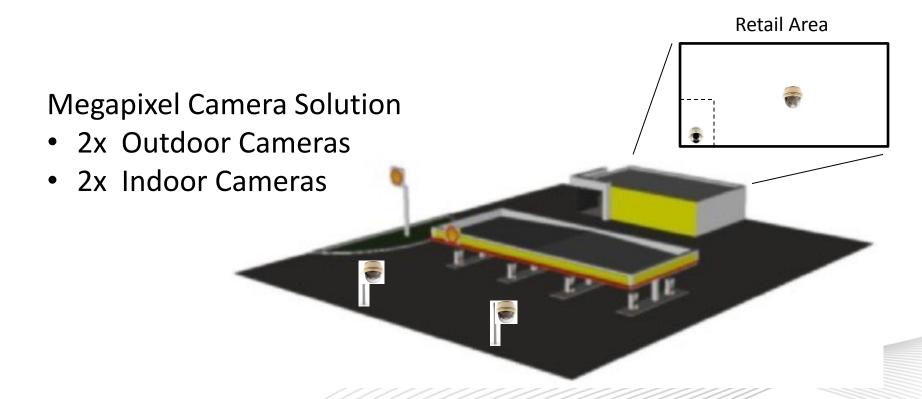
Proposed Solution – Analog

Retail Area

Analog Camera Solution

- 8x Outdoor Cameras
- 5x Indoor Cameras

Arecont Vision

Proposed Solution – Megapixel

Retail Area

Megapixel Camera Solution
- 2x Outdoor Cameras
- 2x Indoor Cameras

Arecont Vision

Solution

Local SI's Combined Solution:

- Arecont Vision Megapixel Cameras
- Luxriot Video Management Software
- Miro Nanostation Wireless Equipment

Arecont Vision

Customer Benefits

- Reduced No. of Cameras

- Reduced Installation Cost

- Reduced Camera Licenses

AV8365DN

AV8185DN

AV3155DN

Retail – Camera Positions

Challenge #1 – Cover Retail Area

Arecont Vision

Forecourt – Camera Positions

Arecont Vision

megapixel technology...
beyond imagination

Arecont Vision

Summary

- Customer had two main areas of his petrol station that needed coverage:
  - Retail Area – facial recognition at the register and general views of retail ailes
  - Forecourt Area – general views of the gas dispenser islands and LPR of automobiles

- Camera Reduction **AND** Increased Resolution
  - Camera Count – decreased from 13 analog cameras to 4 Megapixel cameras
  - Panoramic Views – situational view of gas station islands
  - License Plate Recognition (LPR) – cameras close enough to achieve LPR of parked cars
  - Facial Recognition – use of 3MP MegaDome to capture faces at register
  - Total Pixels – despite decrease of 9 cameras, we increased total pixels from 4M to 27M

- Reduction of Total System Cost
  - Fewer cameras & license fees – decreased from 13 to 4 total cameras
  - Decrease in installation, labor & cable – avoided digging concrete by using wireless

Tech Tips and Tricks

Ted Brahms
Director of Field Applications

Arecont Vision

Megapixel Imaging for Facial Recognition

Practical Applications and Considerations

Arecont Vision

What is Facial Recognition?

- There are two distinct types of video facial recognition
- An analytic function performed by software
- And human identification by a surveillance operator

Arecont Vision

- Biometric face identification is not used in most common surveillance systems

- Requires heavy CPU processing

- Has often experienced high rates of inaccuracy

- Needs specific resolution and fields of view

- Difficult to implement with live crowds

- Physical differences, facial hair, and clothing add complexity

- People frequently don't look in the optimal direction

- Most applications of this type have been by large governmental agencies

- These are generally "Beta"" tests of the technology

- Faster, more accurate, more sophisticated algorithms are continually being developed

Arecont Vision

- High resolution images see more face detail at greater distance

- Accuracy should increase with greater levels of image detail and as more sophisticated algorithms are developed

- Reality check - megapixel applications of this type are still in infancy

Who Has this Technology?

A few software companies developing this type of technology,

- http://www.visionics.com Visionics
- http://www.wavestore.com Wavestore
- http://www.iridiantech.com Iridian Technologies
- http://www.nextgenid.com NextgenID, Inc.

- Common application for megapixel surveillance projects

- Level of detail subjective to who's looking

- Best results with resolutions higher than 60-100ppf / 195 -330 ppm

Arecont Vision

- Sometimes the project specifies a minimum resolution

- If not, make sure you clarify minimum level image clarity expected by the end user

- The end user could be disappointed if more clarity is expected than the system delivers

megapixel technology...
beyond imagination

Arecont Vision

What Megapixel Can Deliver!

- 5 megapixel image from a
  ...ers)
  ...4 ppf
  ...f a

Some Examples, Judge for Yourself

60ppf/200ppm

Arecont Vision

What I did

- The camera – AV5115DN (65210 firmware)
- The lens Tamron M118FM16
- How I did it,
  - Set up a field of view and measured at full resolution and took a picture
  - Then cropped the picture and moved the camera back until the same field of view was duplicated again and took another picture
  - Then repeated the same until I got to 60ppf/200ppm

- The subject, a framed poster
- Actual face size is exactly 1-foot high roughly life size
- So who is the guy in the poster?
  - Hint #1, How I Won the War
  - Hint #2, Give Peace a Chance

Arecont Vision

- This picture is 25ppf/ 80ppm
- Can you identify him?
- Even if you can't you can probably tell it's a white man, brown hair, clean cut, wearing a black suit and a white shirt

megapixel technology...
beyond imagination

Other Considerations

- If you are looking at the top of someone's head it's hard to see their face

- Make sure you have the right resolution camera for the area to be covered

- Image compression, and illumination can also play a role in the final image clarity

megapixel technology…
beyond imagination

Arecont Vision

Thanks for Watching!

Next Month's Topic:
Wide Dynamic Technology and
Surveillance Applications

Arecont Vision

Report on Quality

Darrel Tisdale
Director of Quality

Arecont Vision

Sustaining Updates

- **Updates:**
  - Hardware revision: 5727 (new)
  - Firmware revision: 65210 (new)

- **New Features:**
  - Our new camera graphical user interface (GUI) webpage is now fully supported in Internet Explorer 9.0, Firefox and Google Chrome browsers
  - ONVIF Conformance

- **Improved Performance:**
  - Image Sharpness
  - Color Reproduction
  - Bit-Rate Limit Algorithm
  - Network Stability in Heavily Loaded Networks

megapixel technology...
beyond imagination

Arecont Vision

Thank you!

megapixel technology...
beyond imagination

Arecont Vision