Arecont Vision Update

October 2016

Arecont Vision

Leading the Way in Megapixel Video

Company Update – October 2016

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Leading the Way in Megapixel Video™

- 3Q16 Record Results!
- Promotions and Job Expansion: Parker, Sessa, Wallace, Bujarski, Barry, LaValley, S. Kennedy, Cooper, Schimpf
- New people on-board in sales, engineering and services: Jeremiah, Jason P., Dave, Steve K., Felipe, Alex, Johan, Ahmed, Estaban
- New products are shipping!
- Continued Progress with VMS/NVR Partner business alignment, integration, projects/ orders, events, training and execution
- Project Registration is a terrific tool, not just for pricing but also for project identification and protection.
- Quality and Service continue strong improvement and the results show it.
- Operations, Assembly, Distribution new layout at our WHQ.
- Customer Satisfaction continued improvement and the results are outstanding!

ARECONT VISION MEGAVERTICAL PRESENTATIONS

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

Banks and Financial Institutions

Bank Branch Coverage

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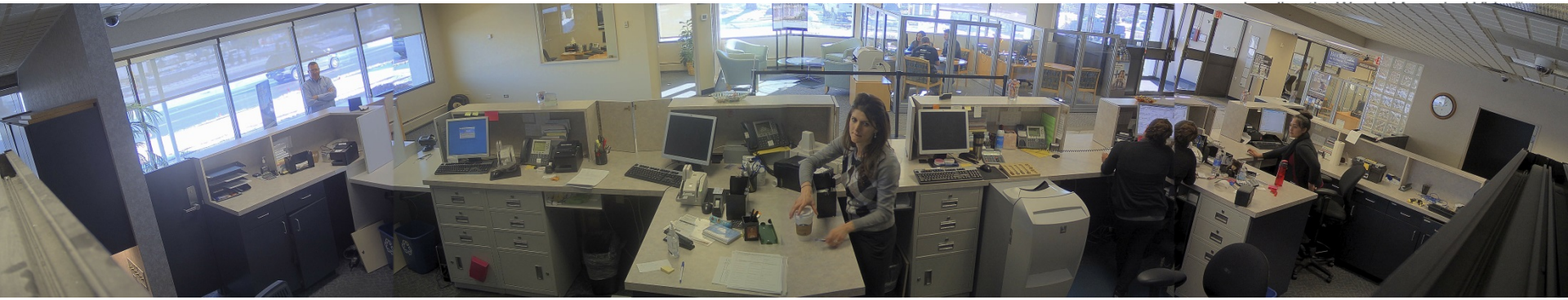

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Bank Example

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- Megapixel cameras provide higher resolution and capture more details than analog or standard network cameras
  - *The Megapixel image below right is superior to the analog and standard definition IP image on the left*

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Analog Image

EXIT
Megapixel Image

Analog Image

Next Window Please
Nataly Valverde
citi
Megapixel Image

Arecont Vision Cameras at Work in Banks

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4Q16 Action

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- Programs released.
  - Try&Buy Program
    - Extended for Multi-Sensor Products
    - Expanded for 4K and Flex
  - 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

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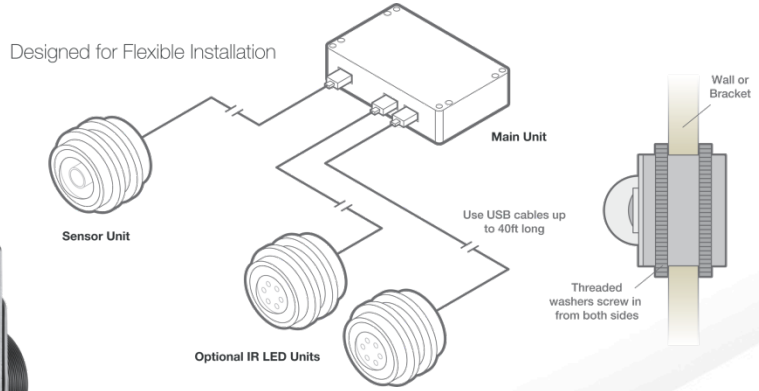
MegaVideo® Flex

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



Optional IR LED Units* | Sensor Unit | Main Unit

Interchangeable Lenses with Motorized Remote Focus

Ultra Low Profile Design

Tethered Camera

NightView™ on 1.2MP Models

WDR

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

True Day/Night with Mechanical IR Cut Filter

Water Resistant from Front

CorridorView™ with 90° Image Flip

SD HC

SDHC Card Slot

Pixel Binning Mode on 3 and 5MP Models

Optional IR LEDs

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*Sold Separately

ONVIF | S | PSIA

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MegaDome® 4K

8.3 Megapixels at 30fps!

4K

GEN5 Megapixel IP Cameras

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

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

PoE

All-in-One PoE and Integrated Lens

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SNAPstream™

Smart Noise Adaptation & Processing

- Smart H.264 Codec Enhancement
- Updateable on Most Legacy Cameras
- Reduces Bandwidth Without Impacting Image Quality

SNAPstream™ Technology

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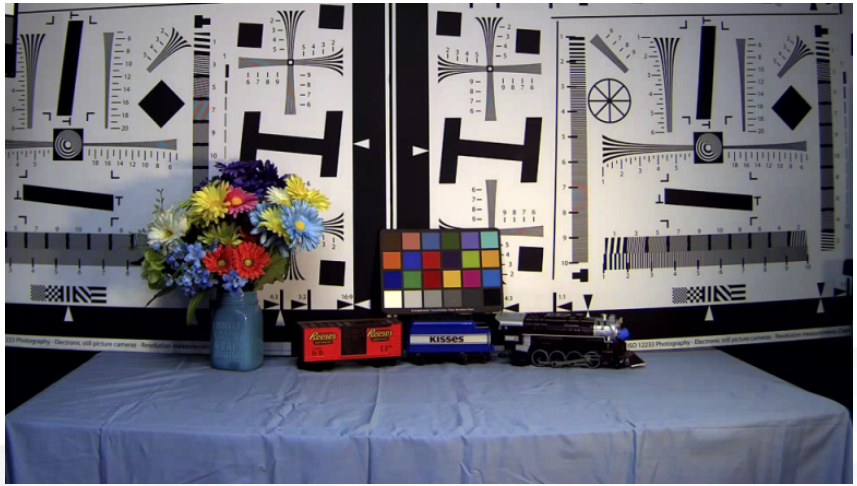
SNAPstream ™



AV MegaView 1080p @ Default Settings
30 FPS 2.2 Mb/s

AV MegaView 1080p @ Default Settings
with SNAPstream
30 FPS 0.5 Mb/s

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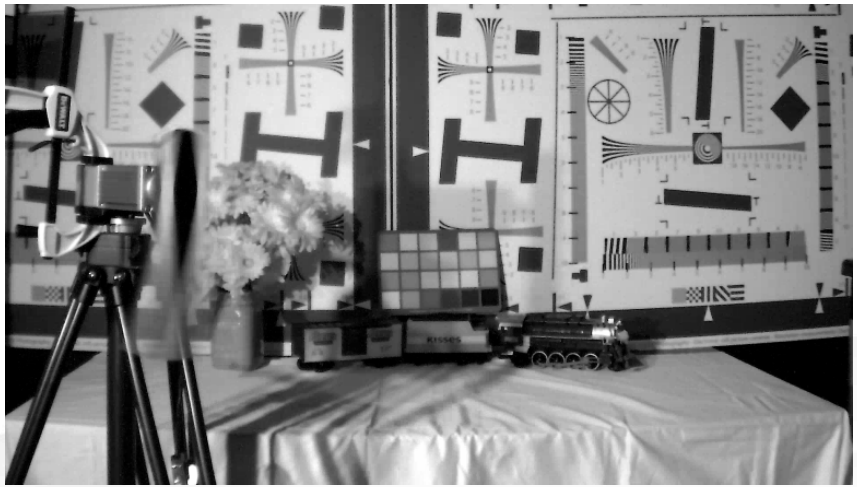
SNAPstream™



AV MegaView 1080p @ Default Settings
21 FPS 10 Mb/s

AV MegaView 1080p @ Default Settings
with SNAPstream
21 FPS 2.4 Mb/s

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MicroDome® Duo

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

Highlighted Features Include:

- 2 Sensor Omni Camera
- Remote Focus – Still Able To Change Lenses
- 3 Axis Gimbals
- Discrete and Low Profile
- Fast Frame Rates

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MicroDome® Duo

Mechanical Overview

Mounting Plate for Easy Installation

NPT Port

Motorized Lens Modules

Uses Existing MicroDome Gimbals and Bubble

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Tech Tips and Tricks

Bit rate and control options for Arecont Vision cameras

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What is a bit rate?

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- Video data rates from IP surveillance cameras to viewing or recording devices across a network are typically measured in bits per second
- So as example a video stream equal to 1 mega**byte** per second would be given as a bitrate of 8 mega**bits** per second
- 8 bits in a byte, this can sometimes be confusing since storage is typically measured in bytes

What is a reasonable bit rate to expect?

- Bit rates can vary widely depending on video compression, resolution, scene content, and scene lighting
- As base line example a typical 1080p Movie streamed using H.264 over a network at 30 frames per second can have an average bit rate ranging around 5000 to 20,000 kbps depending on the codecs used and amount of scene change
- But its important to remember this is not live video and has been optimized in production process
- Live surveillance videos have a lot more bit rate variation and factors like scene activity, lighting, and user settings such as image quality and exposure mode come into play as well

Option – Bit Rate control

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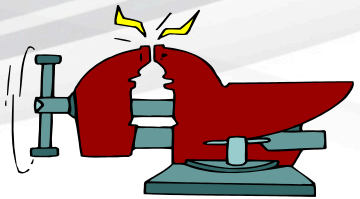
- Bit rate control is a method of maintaining consistent bitrates for MPEG compression
- It can help control bandwidth usage but often at the cost of reducing video quality
- Works by compressing images as bitrates increase, and reducing fps to maintain limits



Option – Bit Rate control

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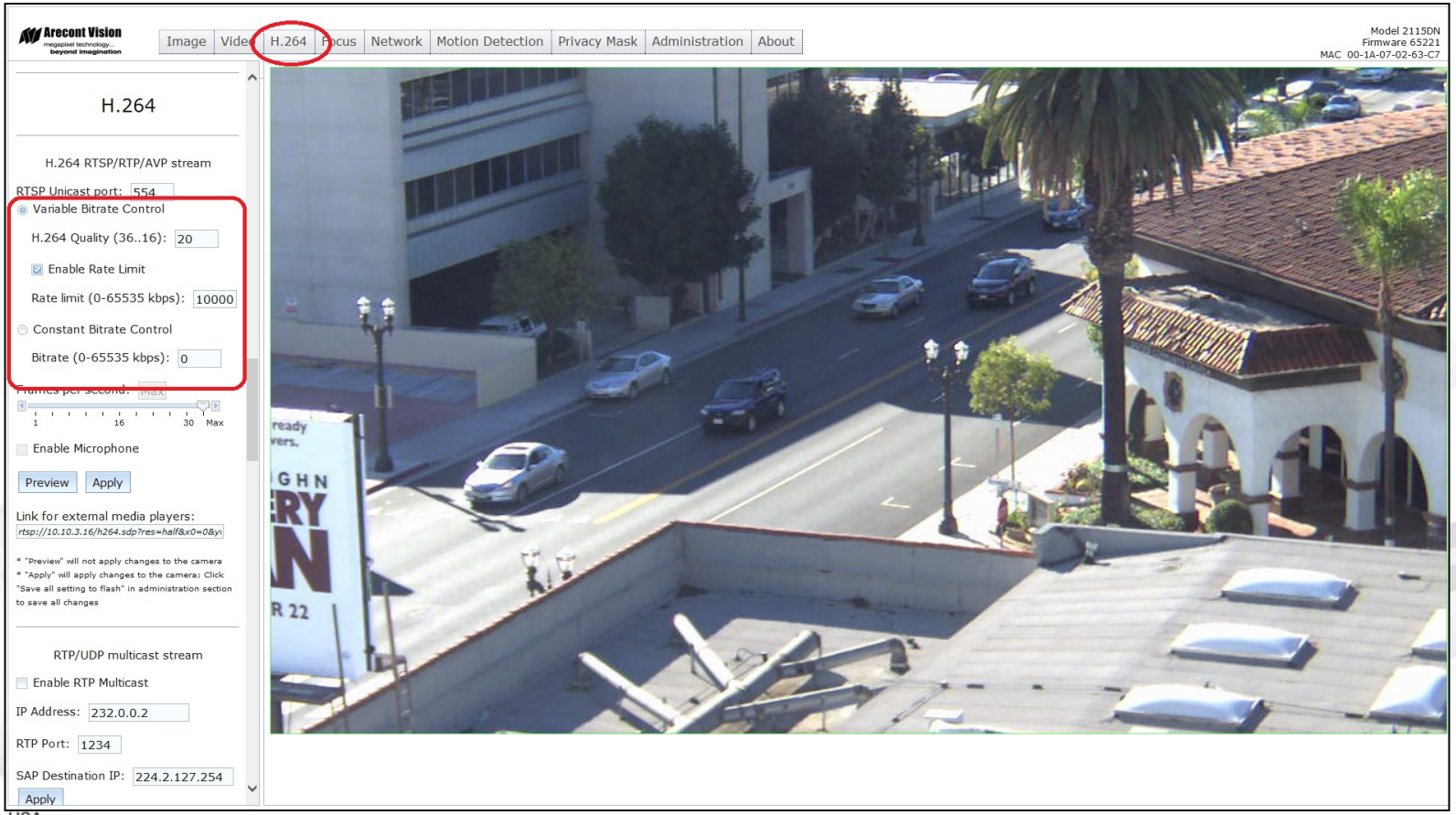

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Variable Bit rate (VBR)

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- Allows setting of the H.264 image quality level
- The selected image quality level will be maintained, but bit rate will be ignored
- This yields a lower average bit rate but allows bit rate variation when scene content has high amount of change

Constant Bit rate (CBR)

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- When selected the camera will automatically apply image compression to keep bit rate at the set level

- With rate limit, image quality will change as compression is automatically adjusted by the camera to keep bit rate at the defined level

Consider compression vs. Resolution

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Low Compression

High Compression

Option – Bandwidth Savings mode

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- Optimizes image settings for best possible bit rate with least impact on image quality
- Not the same as bit rate control, but can work in conjunction with it
- When active there is some trade off in color value and image sharpness
- Can reduce bit rate as much as 50% from default settings

Option – Bandwidth Savings mode

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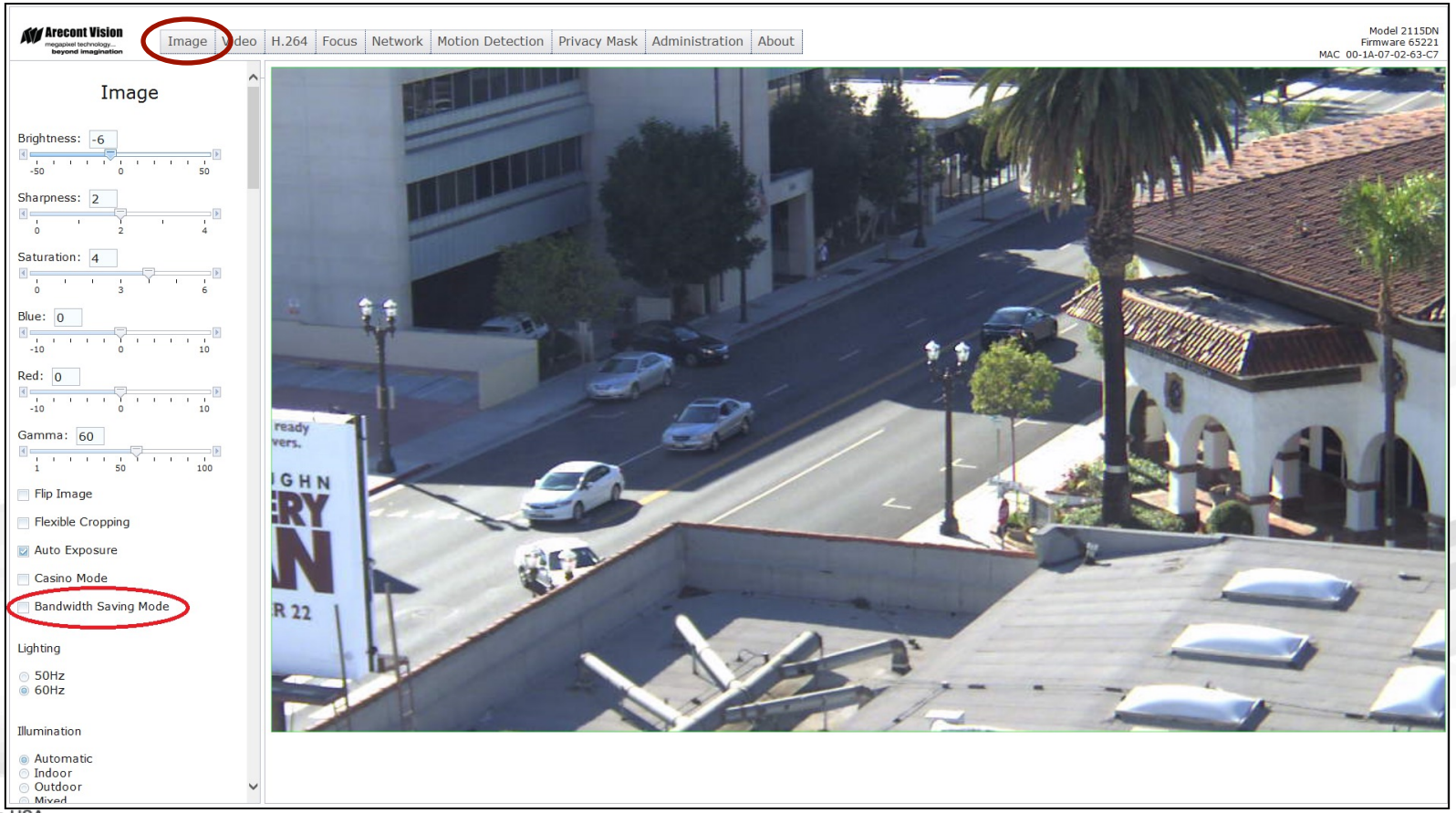

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Q&A

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