

# Arecont Vision SurroundVideo®

**AV8180**  
**AV8360**

Panoramic 8 Megapixel IP Video



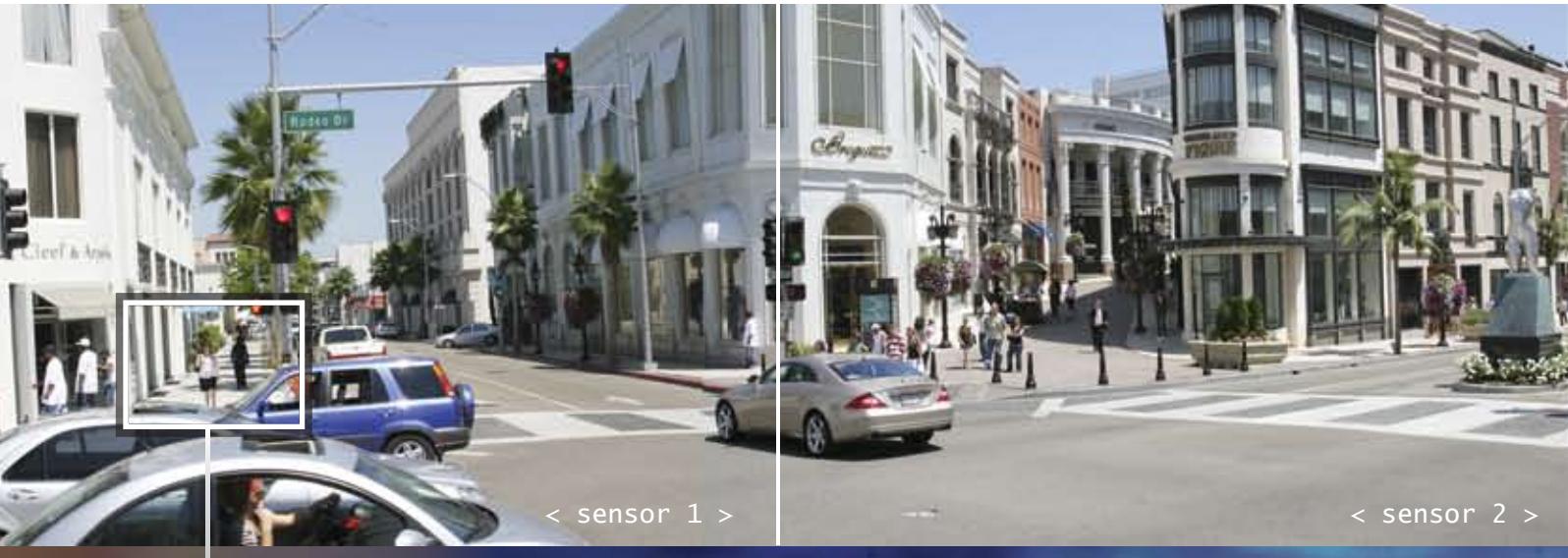
SurroundVideo® cameras  
have 24 times the resolution  
of analog cameras and offer  
dramatically lower cost per  
area under surveillance.



# AV8180



180° Field of View | High Definition | 8 Megapixel Camera



180° SurroundVideo® camera images with selectable Region of Interest (ROI) zones for optimized bandwidth



Real-time, high definition digital video surveillance with 24x the resolution of analog surveillance cameras.

Unique SurroundVideo® 8-megapixel network cameras deliver full motion 180° or 360° panoramas. Compact 6" dome design incorporates four 2 megapixel sensors, dramatically reducing total installation cost.

#### HIGH RESOLUTION & FULL MOTION

AV8180 and AV8360 network cameras leverage proprietary massively-parallel image processing technologies SurroundVideo® and MegaVideo® and deliver full motion, progressive scan panoramic video over four 1600x1200 channels at 22 fps.

#### COST EFFICIENCY

High resolution and crystal clear imagery allow a single SurroundVideo® camera to replace up to 24 analog cameras, substantially reducing the total cost of installation. Compact 6" dome has a single external cable that carries both power and video using Power-over-Ethernet (POE) technology.

#### NO-MOVING-PARTS INSTANTANEOUS 180° OR 360° PAN TILT ZOOM (PTZ)

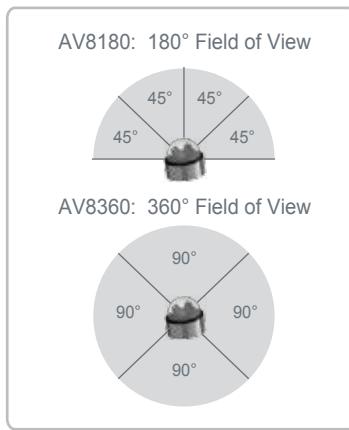
Super high resolution of AV8360 and AV8180 allows efficient no-moving-parts zoom windows to be instantly re-positioned across the entire panorama. These zoom windows are delivered as separate video streams simultaneously with the complete full field of view panoramic video, thus eliminating the trade-off between magnification and area coverage as well as avoiding costly and unreliable electro-mechanical PTZ.

#### FORENSIC ZOOMING

Playback of high-resolution digital archives allows "zoom-after-event" on any object in the field of view, eliminating the need for manned installations.

#### EFFICIENT BANDWIDTH MANAGEMENT

Efficient bandwidth utilization is supported via user-selectable regions of interest (ROI). The reduction of overall storage and bandwidth requirements may be achieved by selecting up to 4 regions of interest with independent control of resolution and compression quality for each of the selected regions.

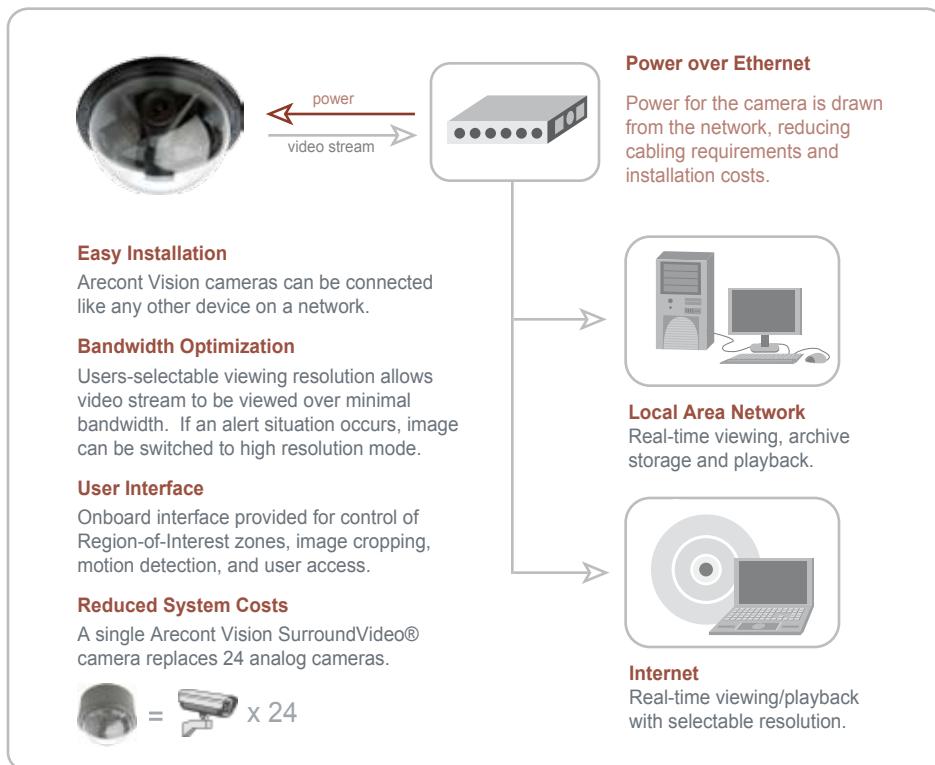
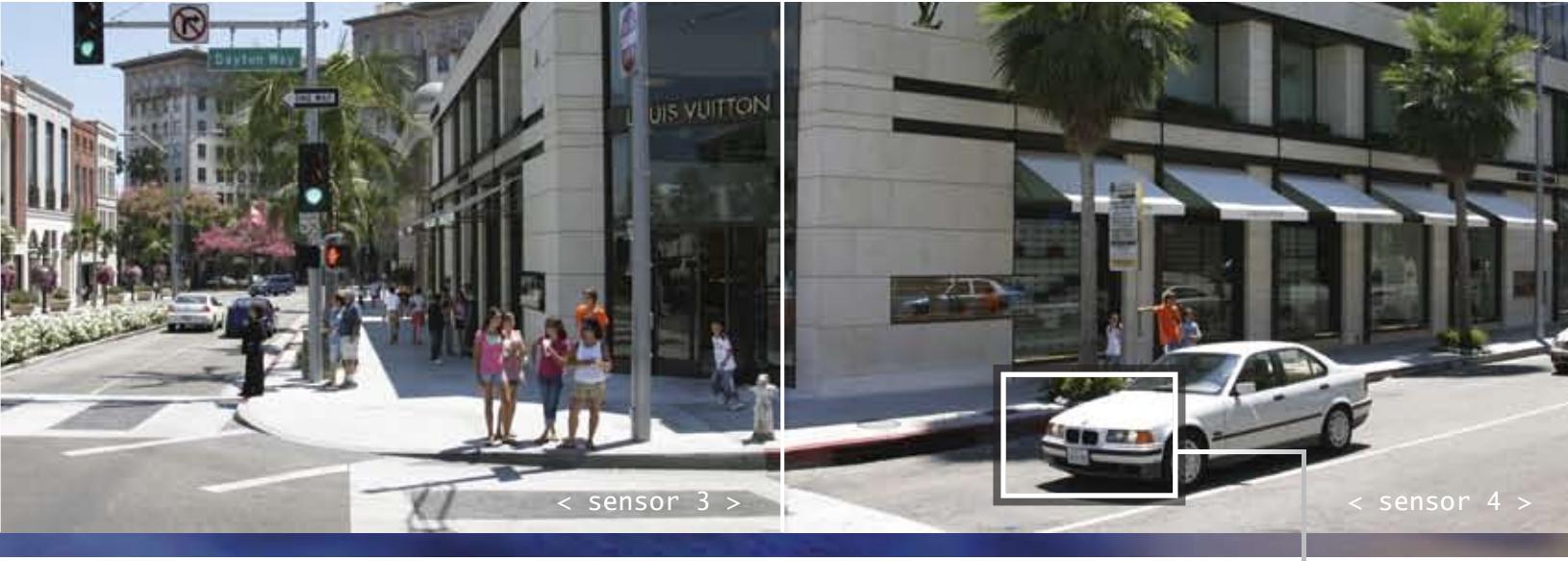


Ultra-compact design incorporates four 2 megapixel sensors for full 180° or 360° coverage.

360° Filed of View | High Definition | 8 Megapixel Camera



# AV8360

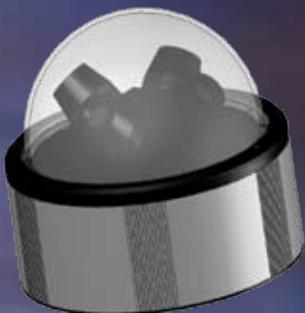


The user can simultaneously view both full field-of-view and multiple regions of interest.

User selectable Region of Interest (ROI) allows users to set the resolution of defined zones in a video stream, reducing image size and required bandwidth.



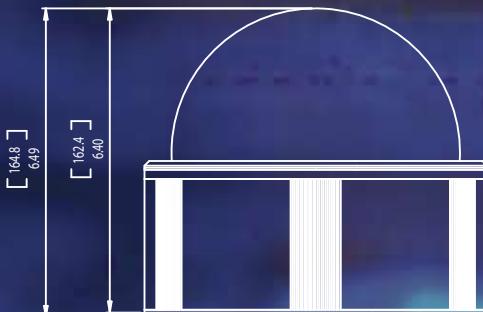
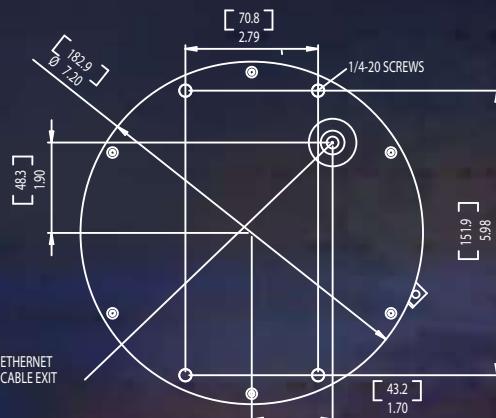
360° SurroundVideo® camera images with selectable Region of Interest (ROI) zones for optimized bandwidth



AV8360



AV8180



*Arecont Vision manufactures the world's fastest HDTV network cameras in discreet, low profile 6" dome designs.*

*The SurroundVideo® AV8180 and AV8360 panoramic cameras deliver full motion HDTV resolution at NTSC prices.*

#### Imaging

Four 2 megapixel CMOS image sensors  
1600(H) x 1200(V) pixel array each sensor  
 $\frac{1}{2}$ " optical format  
Sensitivity 0.2 lux @ F2.0  
Moonlight™ Mode - extended exposure and proprietary noise cancellation

#### Data Transmission

Data rate up to 55Mbps  
Video frame rate (all four channels in parallel):  
88 fps @ 800 x 600 or 22 fps @ 1600 x 1200  
Motion JPEG with 21 levels of quality  
100Base-T Ethernet network interface

#### Programmability (independent for each channel)

Auto exposure (AE) and gain control (AGC) >120dB  
Auto backlight compensation  
Auto multi-matrix white balance  
50/60Hz selectable flicker control  
Electronic pan, tilt, zoom (PTZ)  
Electronic image rotation - up-side down image turn  
Programmable motion blurring control for low-light mode  
Pictures-in-picture: simultaneous delivery of full field of view and zoomed images

#### Electrical

Power over Ethernet (POE) IEEE 802.3af or DC Input  
Power consumption 6 watts maximum

#### Regulatory Approvals

FCC and CE compliant

#### Mechanical/ Environmental

4lb or 1.8 Kg  
Operating Temperature 0°C to +50°C

*Note: Arecont Vision reserves the right to change products or specifications without notice.*



Arecont Vision SurroundVideo® camera installed in outdoor heater/blower enclosure.



View of AV8360 camera showing four 2 megapixel camera channels.