

Leading the Way in Megapixel Video

## Customer

Suez Cement, the largest cement producer in Egypt, operates an industrial network of five cement production facilities in Suez, Kattameya, Tourah, Helwan and El Minya. The company has a long-standing history in the Egyptian market and is innovative in launching new brands and products to meet market needs. The company's five plant facilities use state-of-the-art technology to deliver quality cement to Egyptian and export markets.

## Challenge

Needing a day/night video surveillance system for its plants, Suez Cement wanted to minimize the number of cameras required for full coverage without compromising video quality. Using fewer cameras and minimizing infrastructure would meet their objective of lowering system costs.

# Arecont Vision Cameras Provide Clear Images of Suez Cement Sites

1.3 and 3.0 Megapixel Images Deliver Greater Detail Using Fewer Cameras



Arecont Vision megapixel cameras are being used for security at Suez Cement, the largest cement producer in Egypt.

## MEGAPIXEL SOLUTION

Desiring to install a new video surveillance system, Suez Cement turned to G4S Egypt. The integrator leveraged the benefits of Arecont Vision megapixel cameras to convince the customer to go with an IP system with higher megapixel resolution rather than using analog or standard resolution cameras.

"G4S Egypt chose Arecont Vision megapixel cameras to cover important areas in the factories to meet the specific needs of the cement production environment," said Ahmed Said, G4S Systems Director. Megapixel

camera views provide license plate recognition in some areas and packing details and security standards in other areas.

Three different locations use a combination of Arecont Vision 1.3- and 3.0-megapixel cameras, connected locally to a network video recorder (NVR) and across leased lines to a centralized location. The Arecont Vision MegaDome® AV1355DN 1.3 Megapixel H.264 Day/Night Dome Camera, an all-in-one integrated camera, lens and IP66-rated dome housing provides 1280x1024-pixel images at 32 frames per second

## MegaDome® 1.3 Megapixel IP Camera

### AV1355DN

- 32 fps @ 1200 (H) x 1024 (V)
- 0 Lux, IR Sensitive (B&W)  
0.1 Lux @ F1.4 (color)
- 1/2" CMOS Sensor
- Over 6 Billion Operations Per Second
- Forensic Zooming
- Region-of-Interest (ROI)
- Image Cropping
- Motion Detection
- Motorized IR Cut Filter (DN Version)



AV1355DN

### Arecont Vision Cameras Provide Clear Images of Suez Cement Sites — 2

(fps). For higher resolution, Suez Cement uses Arecont Vision 3.0-megapixel Day/Night cameras providing 2048x1536-pixel images at 15fps. Each camera uses Arecont Vision's MegaVideo® image processing at billions of operations per second. Both cameras are day/night versions with a motorized infrared (IR) cut filter, which automatically switches the camera from color to black-and-white mode at night to allow 24-hour surveillance.



Arecont Vision megapixel cameras cover important areas in the factories for general surveillance and to reveal activities in detail.

Other capabilities include motion detection, image cropping, region-of-interest viewing and forensic zooming. The cameras use H.264 (MPEG-4, Part 10) compression to minimize bandwidth and storage requirements while maintaining real-time image frame rate. Compact camera sizes enable easy installation in outdoor housings. Power-over-Ethernet (PoE) supplies camera power on the same Ethernet cable used for data transmission.

#### MEGAPIXEL BENEFIT

"Based on Arecont Vision's diverse megapixel offering, picture quality and reliability, the project turned out to be a big success for all parties

involved," comments Mr. Said.

The cameras' H.264 codec maintains excellent image quality while keeping video file sizes to a minimum. Imaging can be magnified digitally while preserving critical image details, and moving the enlarged image area up and down and from side to side provides a virtual pan-tilt-zoom (PTZ) function. A single megapixel camera can be used in place of several analog cameras, resulting in significant time and cost savings as well as a

reduction in infrastructure. Multi-streaming provides up to eight concurrent, non-identical video streams, each with a different frame rate, bit rate, resolution and image area. Region-of-interest (ROI) viewing enables an area of the screen to be viewed in higher resolution than the surrounding image, providing superior detailed images while reducing network load.

**'Less need for manpower is contributing to ROI, and the technology investment will be offset within a year based on requiring fewer guards.'**

At Suez Cement, the features of the megapixel cameras translate into much greater system functionality at lower cost with a faster return on investment (ROI).



Arecont Vision is the leading manufacturer of high-performance megapixel IP cameras. Arecont Vision products are made in the USA and feature low-cost massively parallel image processing architectures MegaVideo® and SurroundVideo® that represent a drastic departure from traditional analog and network camera designs. All-in-one products such as the MegaDome®, MegaView®, MegaBall®, MicroDome™ and D4F/D4S/D4SO series provide installer friendly solutions. True Wide Dynamic Range (WDR) and remote focus/remote zoom enhance camera utility. Compact JPEG and H.264 series of cameras address cost sensitive applications. These innovative technologies enable Arecont Vision to deliver multi-megapixel digital video at IP VGA camera price points.

