

# Nutritional Supplements Factory Achieved 120-Day Megapixel Recording with Surveon's End-to-End Surveillance Solutions

The complexity of IP surveillance integration and huge recording capacity had once stopped R.G. Distribuciones, the project management firm in Colombia, to take on the cases like the OMNILIFE factory security project which required a reliable megapixel system with 48 channels and unprecedented 120-day recording.

Now powered by Surveon's complete megapixel solutions, OMNILIFE's factory security has been successfully upgraded without any integration or capacity issues. Using Surveon's NVR2000 series with high-level 60TB hardware RAID controller, real-time VI analytics, and the full selection of industrial-grade cameras, the security integrator was able to provide reliability and stability to the customer, and at the same time, minimize costs and maintenance efforts.

## Customer

OMNILIFE is a Mexican company and the leader in the production of high quality nutritional supplements covering nutritional, weight-loss, energizing, detoxifying, beauty, and personal care lines. OMNILIFE owns one of the world's largest dietary supplement manufacturing plants and has presence in 20 countries, including the US, Brazil, and Spain. In Colombia, it owns a processing and exporting factory in Caloto, Cauca.

## Challenges

On OMNILIFE's Caloto premises, the number of security guards was limited, and there were many places that were not being monitored. Traditional DVR solutions were no longer able to meet surveillance needs, and the company started looking for an advanced system to improve factory security. The fact that megapixel cameras offer up to six times the image quality provided by analog cameras has convinced OMNILIFE to adapt megapixel surveillance for the factory premises.

"We had to deal with many issues from hardware integration to software configuration," said Luis Fernando Arbelaez of R.G. Distribuciones, Surveon's partner in Colombia. "A project like this is usually a major headache for SIs. For example, software is often unstable running 24/7 on a commercial PC, and storage integration and configuration are extremely difficult for security installers. We must commit extra time and resources on system integration and maintenance, and all the efforts add up to a higher cost for customers."

Table 1: Integration Risks for Megapixel Surveillance Projects

Integration	Camera and VMS	NVR and VMS	NVR and Storage
Risks	Non-compliant standard	Non- professional NVR (use PC or COTS)	Low recording performance & reliability
Impacts	Unstable connection & video lost	<ul style="list-style-type: none"> <li>Compatibility issues</li> <li>Unstable for 24/7 operations</li> </ul>	Unstable system & video lost
Risk Level	High	High	High
Solutions	Surveon's end-to-end megapixel solutions	Surveon's own design, professional NVR	Surveon's own design HW RAID NVR and storage

"A proven solution with the complete end-to-end verification can save our time, effort and cost on risk management."



## Summary

### Customer:

OMNILIFE, a nutritional supplements manufacturer, factory in Colombia

### Factory Needs:

- Proven end to end solutions for megapixel recording
- Support 120-day recording
- Improve surveillance in large areas, indoor, outdoor
- Prevent theft and vandalism
- Improve quality of surveillance video images
- Provide more active management
- Quicken event responsiveness
- Reduce cost for system maintenance

### Surveon Solutions:

Highly integrated solutions with the following:

- CAM2400 megapixel day/night box camera
- CAM2320 3 megapixel box camera
- CAM4220 megapixel day/night fixed dome
- CAM6160 megapixel day/night outdoor speed dome
- NVR2048 (36 bay) hardware RAID NVR system
- Surveon video analytics

### Surveon Solution Benefits:

- Certified end to end solutions, from cameras, NVR, VMS, to storage
- 120-day megapixel recording
- H/W RAID NVR ensures reliability
- Easy integration
- Real-time VI detection
- Smart investigation
- Exemplary performance, extremely stable HD and zero frame loss
- 100% in-house design and production
- 3 year warranty

Megapixel solutions obviously offer significant benefits for surveillance operations. However, the large quantity of megapixel cameras and the need for 120-day recording present many different issues for system integrators, including the I/O performance of traditional NVR, stable integration of storage systems, and proven solutions that can assure end-to-end integration.

Table 2: Storage Requirement for Megapixel NVR

Number of Cameras	Bit Rate	Number of 2TB HD 30 Day Recording*	Number of 2TB HD 60 Day Recording*
8	3	5	9
16	3	9	17
24	3	13	25
32	3	17	33

\* Based on 24 hour recording.

## Solutions

“A proven solution with the complete end-to-end verification can save our time, effort and cost on risk management,” said Arbelaez. To successfully deal with all the issues, R.G. Distribuciones adopted Surveon’s megapixel solutions, including IP cameras, RAID NVR, IP storage, and enterprise video management software.

Cameras were installed in the perimeter of the factory and the production areas to better monitor the premises: CAM2400 and CAM2320 box cameras for day and night usage, CAM4220 fixed domes, and CAM6160 speed domes for outdoor surveillance. Network video recording is handled by Surveon’s NVR2048, which offers up to 48-channel megapixel recording and 36 hard drives for video content storage for 120 days.

Surveon’s hardware RAID NVR makes capturing, analyzing, managing and searching video surveillance easier and faster. Its active VI detection has a pre-configured base for a number of scenarios, such as intrusion detection in and around the factory, examination of important gates or parking lot detection. The NVR distinguishes what is important from what is not, turning the raw surveillance videos into useful information. The recorded events are analyzed and labeled with details such as time, date, direction, color and size of the objects.

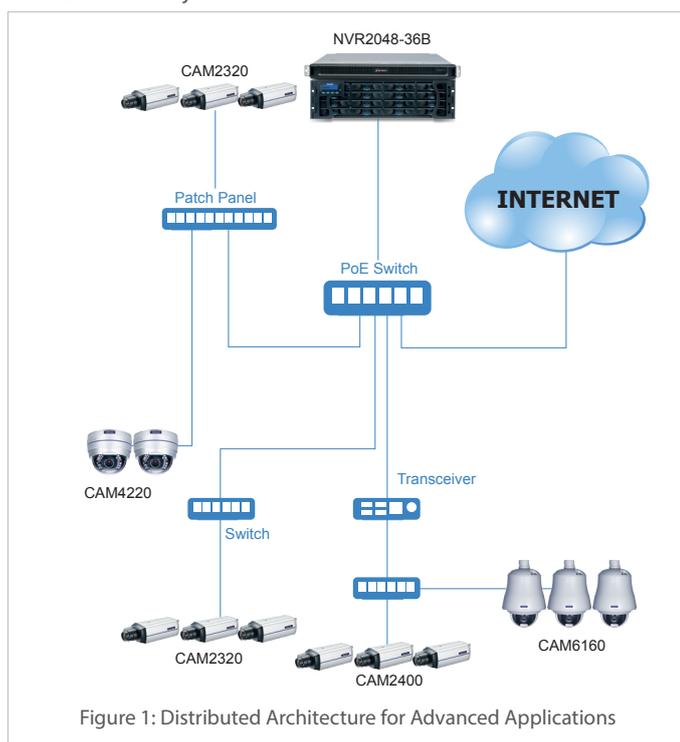


Figure 1: Distributed Architecture for Advanced Applications

“NVR2000 with highly effective hardware RAID offers extraordinary recording and playback quality, and most importantly meets the customer’s need for 120-day recording.”

## Benefits

### Enhance Security with End to End Solutions

“Surveon’s solutions surpassed our expectations for this project,” said Arbelaez. “The megapixel NVR with highly effective hardware RAID offers extraordinary recording and playback quality, and most importantly meets the customer’s need for 120-day recording. In addition, Surveon’s enterprise-grade intelligent VI transforms the previous passive monitoring mechanism into active detection, and tracing incidents such as theft or vandalism can be detected in time, enhancing the efficiency of security management.”

### Simplify Integration with High Reliability

With megapixel surveillance emerging as a key trend in the market, what system integrators truly need is highly integrated and certified solutions that can overcome the problems of storage capacity and efficiency.

“Surveon is the best available choice due to its 100% in-house production and 3-year warranty,” said Arbelaez. Surveon’s highly integrated solutions, including megapixel cameras and hardware NVR, not only speed up project planning for system integrators with high integration and stability, but also meet the need for full service support.

“Working with Surveon, we have reduced the integration risks and saved huge effort and cost on solution verification. As a result, we have increased our competitiveness on megapixel project management.” said Arbelaez.



### About R.G. Distribuciones S.A.

Found in 1991, R.G. Distribuciones is dedicated to distribution of electronic and communication products to commercial, services, industrial and construction sectors. With a wide range of product portfolio, the company is committed to provide high quality services and delivery to satisfy clients’ expectation.

### About Surveon

Surveon Technology offers end-to-end network video surveillance solutions that showcase our expertise in professional camera design, hardware RAID NVR, high-availability video storage, embedded firmware and video management software. All Surveon products are designed in-house and manufactured on our ISO 9001 and ISO 14001 certified production site to ensure the highest quality for our partners.