

THINK VISUALIZATION



LG ELECTRONICS CASE STUDY

Learn how LG used N3N's INNOWATCH to
Detect and Resolve Manufacturing Production
Line Problems



LG ELECTRONICS



ABOUT LG ELECTRONICS

LG Electronics is a multinational electronics manufacturing company based in Seoul, South Korea, that employs almost 100,000 people working in over 100 subsidiaries worldwide. With global revenue on the order of USD \$50 billion, LG is a leading manufacturer of television screens, home appliances, mobile communications devices, vehicle components and more.

LG's NEEDS

LG's dust-sensitive display panel production line requires strict and lengthy procedures for personnel to enter a clean room, which can lead to significant delays and production loss.



LG ELECTRONICS



N3N DELIVERED THE SOLUTION

- Ability to monitor system screen in FAB from remote operating system room without any latency.
- Operators are now able to take action when problems arise on the production line.
- Maintain low latency in control room by replacing legacy analog fiber optic network environment with LAN.
- Utilizing LAN minimizes maintenance costs and removes the need for new fiber cable routing as assembly line modifications occur.
- Installed N3N RDS-TX in FAB to transmit its screen videos through the network.
- Installed N3N RDS-RX in remote operating system room to control and receive system screens.
- Support Full-HD screen input at 60 fps with latency under 0.002 seconds.
- Resolved latency issues by controlling and viewing remote server on LAN network.



PRODUCT	MAINTENANCE / SUPPORT METHOD	YEARLY TRAVEL AND LABOR COST
Conventional system	On-site	\$480,000
INNOWATCH	Remote Access	\$48,000
Yearly Savings		\$400,000

SOLUTION OVERVIEW

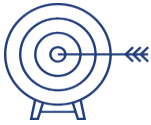
MONITORING/DETECTION



VISUALIZATION



WITH N3N



Locate and Solve
Problems in Real-Time



Monitor All Your Systems
and Applications



Big Data Analytics
and Reporting

N3N Products and Solutions

WIZEYE

The solution provides an easy way to monitor all your IT operations, applications, infrastructure and business services from a single view. Gone are the day's of hunting for a needle in a haystack. With WIZEYE your team is able to easily locate, analyze and solve problems in minutes. Monitoring, detecting and predicting issues is simple as we bring all your systems together in a Single-Pane-of-Glass.

INNOWATCH

A complete solution for monitoring all your data sources, facilities, business operations and monitoring systems from a single station. Maps, video feeds, computer screens and data are integrated into one display for convenient monitoring, detection and issue notification. INNOWATCH offers a true command and control environment which includes functions like PTZ control, remote PC control, external device control and alarm response all from a Single-Pane-of-Glass.

CUSTOMERS RUN N3N

Brands across the globe run N3N for IT/business operation monitoring, APM monitoring, data center monitoring, security monitoring, facility monitoring and a whole lot more.

ABOUT N3N

ABOUT N3N

The company is Headquartered in Seoul, South Korea with North American operations located in San Jose, CA. N3N has developed and markets a comprehensive range of data visualization solutions for the public and enterprise sectors.

N3N's VISUALIZATION

Solutions provide highly scalable image processing while integrating IoT, Big Data, videos and maps into a Single-Pane-of-Glass. Today N3N's solutions are run across a wide range of IoT sectors including: Manufacturing, Smart Cities, Buildings, Traffic, Security, High Tech, Retail, Healthcare, Utilities and more.

