

LG DISPLAY INTERGRATED REMOTE SYSTEM

OVERVIEW

INNOWATCH can be applied to high technology industry where access is limited. LG display's dust-sensitive panel production line requires strict and lengthy procedures to enter into cleanroom. Once trouble is detected on the assembly line, these procedures yield a great loss in production. INNOWATCH's RD can reduce mean time to detect and resolve significantly by allowing the operator to perform real-time diagnosis on the assembly line server from a remote central station.

SCOPE & SOLUTION DELIVERED

- Monitor system screen in FAB (Fabrication Facility Room) from ROS (Remote Operating System) room without any latency to take action when problem rises on the production line
- Maintain no latency in control and replace fiber optic network environment with LAN to minimize maintenance cost on constantly changing in assembly line formation which requires new fiber cable routing
- Install RDS-TX in FAB to transmit its screen videos through network, and installed RDS-RX in ROS (Remote Operating System) room to receive system screens and control them
- Support Full-HD screen input at 60 fps with latency under 0.002 second
- Resolve latency issue on controlling and viewing remote server even on LAN network

BENEFIT

- Create unmanned FAB environment on LAN network
- Reduce mean time to resolve problem
- Maintenance cost saving

PRODUCT	Maintenance/Support Method	Yearly Travel Expense and Labor Cost
Conventional System	On-site	USD 480,000
INNOWATCH	Remote Access	USD 48,000
Yearly Savings		USD 400,000

