



Overview

Ensuring worker safety and health in hazardous environments is critical. NLT AI video analytics continuously monitor key areas to automatically verify PPE compliance and unsafe behavior, while NLT tailors and deploys these solutions for real-world industrial sites. Together, we reduce risk, lighten the load on safety teams and give you defensible records when incidents occur.

Solution

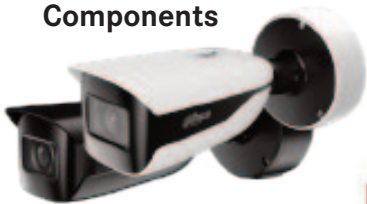
Our PPE detection application supports testing of various types of protective equipment, such as safety helmets, safety vests, work clothes and other protective gear, enabling timely detection of non-compliance and rapid response. Furthermore, it offers multiple intelligent deployment methods to suit different application scenarios, making installation and use more convenient.

Seven PPE Attributes

- Hard hat
- Hard hat colour
- Safety vest
- Mask/Respirator
- Gloves
- Boots
- Protective eyewear

Quick target Location - The PPE function can quickly locate specified targets by selecting different attributes, which greatly improves search efficiency and facilitates immediate response management.

Components



Network Camera



Intelligent Video Surveillance Server



Video Management System (VMS)





Industrial Applications

Construction – Mining – Manufacturing – Oil & Gas – Healthcare
Power Generation & Utilities – Emergency Service – Property Management

These industries are full of large equipment, hazardous conditions and high-risk areas. Employees need to wear personal protective equipment at all times to ensure work safety. Proactive PPE solution can efficiently monitor proper wearing of PPE in a proactive and preventive manner, greatly reducing the workload of safety management personnel.

PPE detection supports safer workplaces by helping reduce incident risk and the human and financial costs associated with workplace injuries.

How NLT Helps

- Site assessment and PPE rule design by area (shafts, shops, crusher, plant, yard, contractors, visitors).
- Network design.
- Configuration of alerts and notifications such as emails, audible and visual alarms etc.
- Commissioning and training for H&S, supervisors and IT/OT teams.
- Ongoing support and change management as PPE policies or site layouts evolve.

Our PPE detection links directly with Perimeter Protection and Facial Recognition. This allows the system to identify specific personnel for non-compliance and immediately alert operators to unauthorized entry in restricted zones.

