



USE CASE /

Remote Visualization & Inspection

Augmented Reality-assisted remote visualization processes enable field service personnel to more effectively communicate with experts. Leveraging graphical overlays, work instructions, inspection sites and collaborative solutions can be simultaneously displayed between multiple parties, regardless of their locations.

AR Technologies

For these processes, any software architecture is suitable, provided that the software can successfully render environments in the midst of complex assemblies and sub-assemblies, in a real time. Given the geographically dispersed nature of the use case, measures to ensure data security and compliance with national regulations are critical. As such, a user verification process needs to be considered and, when required, instituted.

Hardware for this use case must be based on mobile platforms, with nothing larger than a ruggedized touchpad. Wearable technology that integrates into existing eyewear would provide an optimal system.

User interfaces based on gesture detection, with opportunities for touchscreen implementation in limited cases, help reduce needs for mouse or keyboards.

Users

Users of remote visualization and inspection include field service technicians who service aircraft in customer locations.

Example Scenarios

- Real time collaboration between expert maintenance personnel at the production line and onsite field representatives for an aircraft on an offshore oil rig.
- Real time direction of onsite maintenance personnel such that remote expert personnel fully

inspect areas of interest without the need for time-delayed sending and receiving of images.

- Real time display of approved modification to repair instructions for an onsite maintenance technician.