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Design and Development of a Remotely Controlled Thermal Imaging Platform

A remote control, mobile, thermal imaging camera platform has been developed to survey and investigate the Diamond Light Source accelerator components when beam is present. The platform consists of a small battery powered, PC operated, wheeled base unit onto which a height adjustable camera mount has been fitted. Visible light and thermal imaging cameras are located on the camera mount. The platform is 'free roaming' and operated remotely from the control room via LAN and WLAN connections. The facility to recharge the onboard batteries has been built in thereby allowing the unit to be fielded for extended periods of time. The platform has been in use during machine run periods for approximately one year and has been employed in monitoring various areas of the Booster and Storage Ring.

Summary

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