



APPLICATION STORY

Norwich City Football Club (NCFC) relies on FLIR's Latitude VMS to manage supporter crowds.

FLIR's Latitude Video Management System (VMS) enables NCFC to add thousands of security cameras to monitor stadium surroundings.

In order to meet its security goals and comply with Football Association (FA) standards, Norwich City Football Club (NCFC) recently upgraded to a video surveillance system that is worthy of the club's great ambitions. The surveillance system now features some of the most modern CCTV technologies on the market, including a comprehensive and future-proof Video Management System from FLIR.

Norwich City Football Club (also known as The Canaries or City) is based in Norwich, Norfolk, UK. Norwich returned to the Premier League in 2015, having first been promoted to the top flight in 1972. The club has never won the top flight, but finished third in 1993. NCFC plays in characteristic yellow and green kits and are nicknamed The Canaries after the history of breeding the birds in the area.

MANAGING CROWDS INSIDE AND OUTSIDE THE STADIUM

When you have a regular 27,444 supporters, it is absolutely necessary to have an adequate security monitoring system in place to be able to have events running smoothly and safely. That's why NCFC decided in 2016 to upgrade its surveillance capabilities to 21st century standards, allowing to efficiently manage crowds inside and outside the stadium, keep possible supporter aggression under control,

detect people illegally filming the football match, and intervene in time where needed. With this upgrade, NCFC was also able to fully meet the stringent safety standards of the Football Association Safety Advisory Group. Failure to comply to these guidelines results in postponed matches, additional police reinforcements and loss of earnings. NCFC was therefore on the lookout for a video surveillance solution that is scalable and making use of the latest camera, server and video storage technology.

MISSION-CRITICAL TECHNOLOGY FOR SECURITY OPERATIONS

For a number of years already, NCFC had been working with Check Your Security Ltd., a Norfolk based integrator of security monitoring systems, specializing in IP security technology. Check Your Security designs, installs commissions and maintains a wide



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range of security systems including CCTV, access control, high-security perimeter fencing and other associated disciplines. "Check Your Security has never failed us and they know how critical CCTV is to our operation," says Andy Batley, Security Manager at NCFC. "Since they specialize in IPCCTV, we asked their advice on what options were open to us and we were staggered by the choice and scope of what they came up with."



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After careful consideration, NCFC chose the technology from FLIR Systems. According to the club, using a system from a single manufacturer with extremely feature-rich settings and at a cost-effective price made it very appealing and a straightforward decision.

FUTURE-PROOF VIDEO SURVEILLANCE OVER IP

For this project, NCFC opted for the FLIR Latitude VMS, which provides seamless forensic quality imaging and user-friendly operation consisting of dedicated, web-based and mobile client software. The security monitoring solution also includes a wide range of hardware components, including FLIR's Quasar camera line, available in Quad HD WDR and 4K resolutions, coupled with motorized wide angle and tele-photo lens options. This allows security teams to proactively and reactively respond to security incidents in the event of an emergency.

FLIR's Latitude VMS makes direct use of a wide range of cameras that cover vast areas in and around the stadium in real time.

NCFC has the ability to add thousands of cameras should the football club wish, plus it can integrate a wide range of third-party security and analytical systems under an easy-to-use front end. Equipped with the latest and



NCFC now have one of the most up-to-date security systems available in the English Football League Championship, offering numerous possibilities for future improvements.

greatest technology, Norwich City Football Club is truly ready to grow with confidence.

The new system utilizes the existing cabling infrastructure and is truly scalable, allowing the club to connect all existing cameras with additional high-definition cameras, as well as future extensions of any part of their system when required. In one step NCFC have installed one of the most advanced systems available in the English Football League Championship, offering numerous possibilities for future improvements.

QUAD HD RESOLUTION IMAGING

The FLIR Quasar camera line includes Quad HD resolution sWDR bullet and dome cameras representing an image quality breakthrough by

combining advanced shutter technology with high pixel count. This results with evidentiary-class video quality in the toughest lighting conditions. These advanced Quasar models offer 76% more detail than HD1080 and the same forensic zoom as legacy 5MP cameras. Utilizing its broadcast, motion-processing based architecture, the Quasar Quad HD camera series delivers predictable storage, lower utility costs and a reduction in the Total Cost of Ownership (TCO).



FLIR's Latitude VMS makes direct use of a wide range of cameras that adjust to preset locations, allowing for easy, real-time coverage of vast areas in and around the stadium.



NCFC also uses FLIR's advanced Quasar models, which offer 76% more detail than HD1080 and the same forensic zoom as legacy 5MP cameras.

For more information about thermal imaging cameras or about this application, please visit:

www.flir.com/security

The images displayed may not be representative of the actual resolution of the camera shown. Images for illustrative purposes only.

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