

LEADER



CASE STUDY: LEADER

Upgrading Video Surveillance and Wireless with UniFi

UniFi® Video Cameras deliver scalable, full HD resolution for day or night use

UniFi 802.11ac APs provide high-performance, reliable Wi-Fi to company personnel

IP video management offers intuitive control, live views, and customizable event recordings

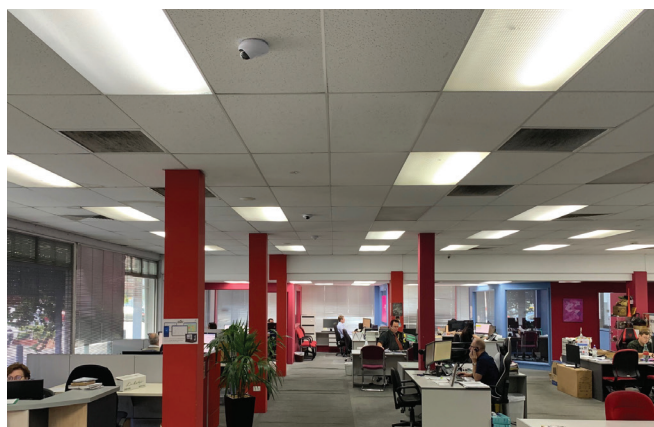
Serving Australia for over 20 years, Leader is a distributor of over sixty global vendor brands and a telecommunications provider and carrier for VoIP solutions.

Ranked as one of the top ten largest distributors in Australia, Leader has locations in five cities: Adelaide, Brisbane, Melbourne, Perth, and Sydney, which deliver and ship to customers across the country, including thousands of IT resellers, installers, and integrators.

SURVEILLANCE AND BANDWIDTH NEEDS

Leader's aging CCTV and wireless systems were hard-pressed to keep up with the company's growth and technological demands, including 1 Gbps of bandwidth per warehouse.

With five warehouses stocked with inventory and staffed by over two hundred users, Leader realized it was time to overhaul both the video surveillance and wireless networks.



Office area with ceiling-mounted UVC G3 Dome Cameras

“Ubiquiti provided us with a CCTV solution that was at least 70% more cost-effective than all commercial-grade solutions in the market – it also provided us with a better solution. Both the management software and remote viewing are generations ahead of the competition.”

Ben Klason, National Enterprise Manager, Leader

TOTAL CCTV AND WIRELESS UPGRADE

Leader surveyed the options and chose UniFi Video Gen 3 cameras and UniFi 802.11ac APs, which are supported by a variety of Ubiquiti® switches. Leader deployed the following Ubiquiti products across five warehouses:

Model	Number	Purpose
UVC-G3-AF	126	Indoor/outdoor IP camera with infrared
UVC-G3-PRO	40	Indoor/outdoor wide-angle IP camera with infrared and zoom
UVC-G3-DOME	12	Wide-angle dome IP camera with infrared
UAP-AC-M	22	802.11ac wireless coverage with directional antennas
UAP-nanoHD	18	802.11ac Wave 2 wireless coverage
US-16-XG	1	10G aggregation switching with SFP+ and RJ45 ports
US-48-750W/ US-48-500W	7	Gigabit switching with 10G SFP+ ports and PoE support
US-24-500W	1	Gigabit switching with SFP ports and PoE support
US-16-150W	4	Gigabit switching with SFP ports and PoE support
UAS-XG	4	10G application server
EP-S16	4	Outdoor switching with SFP+ ports, PoE support, and power input options: DC power and PoE



UBIQUITI SOLUTION

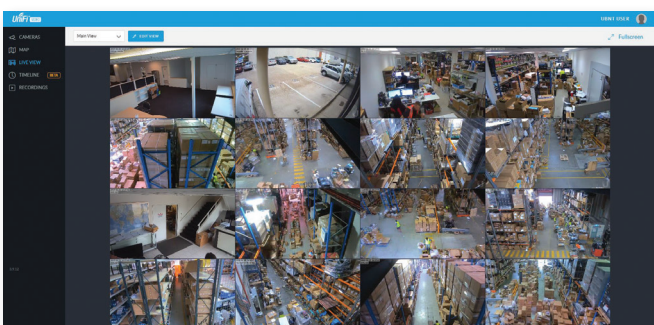
RAPID DEPLOYMENT

Licensed security installers and certified electrician/cablers performed the hardware installation, and Leader system administrators easily set up and configured devices in less than 1-2 hours per site. Subsequent maintenance and management is minimal.

HD VIDEO SURVEILLANCE

At each site, Leader uses 25-50 cameras, which receive data and PoE from UniFi PoE Switches. In turn, these switches connect via fiber to a core UniFi 16 XG Switch linked to the fiber internet connection.

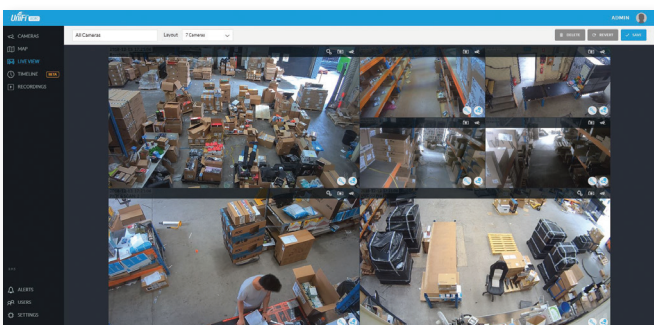
In deployments that require longer cable runs, cameras are powered by an EdgePoint® S16, a weatherproof switch designed for operation in high-temperature environments.



Live View of sixteen cameras at Sydney warehouse

Most sites use a UniFi XG Application Server to run the management software. Each server was upgraded to use dual 8 TB drives for a total recording capacity of 16 TB. For security purposes, camera access requires a VPN tunnel, and remote viewing is limited to management personnel. A mobile app customizes the interface for convenient control from a smartphone or tablet.

The software is easy to use yet powerful and flexible, offering versatile camera settings, multiple live view options, advanced analytics, and customizable event recordings. Additional features include configurable motion detection zones and live camera feed rotation.



Live View from seven cameras at Melbourne warehouse

“We actually experienced a theft five days after our new system went online in Sydney – and the footage was brilliant compared to our last system. If we had used the earlier system to try to pull camera footage, we would have had no usable evidence. UniFi gave us super-clear HD footage, and it was easy to extract three camera angles of evidence, export and upload to Dropbox – all in under five minutes.”

Ben Klason, National Enterprise Manager, Leader

802.11ac WIRELESS PERFORMANCE

For Wi-Fi coverage at each site, Leader installed 4-18 UniFi APs, which receive data and PoE from UniFi PoE Switches. The UniFi nanoHD AP model offers 802.11ac Wave 2 MU-MIMO technology with 4x4 spatial streams to maximize multi-user throughput for high-density environments, while the UniFi AC Mesh AP model provides wide-area Wi-Fi with Plug & Play Mesh technology.

“The wireless installation allowed us to deploy the latest 802.11ac Wave 2 wireless with nanoHD – at around 1/5 the cost you’d expect from competitor brands like Aruba and Cisco – and it works brilliantly!”

Ben Klason, National Enterprise Manager, Leader

The scalable UniFi Network software conducts device discovery, provisioning, and configuration of APs, switches, and other devices via an intuitive user interface, which is available through a web browser or mobile app.

DEVICE NAME	IP ADDRESS	STATUS	MODEL	VERSION	DATE	COUNT	IP	IP ADDRESS
ADU-AP-1	10.2.2.100	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.100	10.2.2.100	10.2.2.100
ADU-AP-2	10.2.2.101	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.101	10.2.2.101	10.2.2.101
ADU-AP-3	10.2.2.102	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.102	10.2.2.102	10.2.2.102
ADU-AP-4	10.2.2.103	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.103	10.2.2.103	10.2.2.103
ADU-AP-5	10.2.2.104	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.104	10.2.2.104	10.2.2.104
ADU-AP-6	10.2.2.105	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.105	10.2.2.105	10.2.2.105
ADU-AP-7	10.2.2.106	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.106	10.2.2.106	10.2.2.106
ADU-AP-8	10.2.2.107	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.107	10.2.2.107	10.2.2.107
ADU-AP-9	10.2.2.108	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.108	10.2.2.108	10.2.2.108
ADU-AP-10	10.2.2.109	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.109	10.2.2.109	10.2.2.109
ADU-AP-11	10.2.2.110	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.110	10.2.2.110	10.2.2.110
ADU-AP-12	10.2.2.111	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.111	10.2.2.111	10.2.2.111
ADU-AP-13	10.2.2.112	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.112	10.2.2.112	10.2.2.112
ADU-AP-14	10.2.2.113	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.113	10.2.2.113	10.2.2.113
ADU-AP-15	10.2.2.114	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.114	10.2.2.114	10.2.2.114
ADU-AP-16	10.2.2.115	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.115	10.2.2.115	10.2.2.115
ADU-AP-17	10.2.2.116	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.116	10.2.2.116	10.2.2.116
ADU-AP-18	10.2.2.117	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.117	10.2.2.117	10.2.2.117
ADU-AP-19	10.2.2.118	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.118	10.2.2.118	10.2.2.118
ADU-AP-20	10.2.2.119	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.119	10.2.2.119	10.2.2.119
ADU-AP-21	10.2.2.120	ONLINE	UniFi AP nanoHD	4.2.2.100	8	10.2.2.120	10.2.2.120	10.2.2.120

Overview of Access Points in UniFi Network

FUTURE EXPANSION PLANS

As needs evolve, Leader plans to add more cameras and APs to the current systems. Leader is also researching UniFi LED to achieve cost savings – potentially 40% of current electricity bills – and increase energy efficiency.

Visit Leader at www.leadersystems.com.au

For more case studies, visit ui.com/customers



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