



Mobile CCTV Command Centre (MCCC) Needed Eagle Eye Networks for Secure and Encrypted Connectivity



THE MISSION OF MCCC

Intelligent Security Integration (ISI) was looking to create a mobile video surveillance center that could support the most technologically advanced video surveillance and communications technology. This technology needed to allow for remote area CCTV, so it could be used at events and outdoor locations, which have limited to no Internet coverage, for rapid deployment for issue response.

CHALLENGE

Finding a video surveillance solution that could survive in Australia's harshest environments as a fully monitored temporary cloud surveillance solution was challenging. In addition, the surveillance system needed to have an encrypted connection between the cloud and the cameras, ensuring footage is viewed and stored over a highly secure network with no open ports. Even with an unreliable Internet connection, the system needed the ability to buffer over multiple days. Then, once the internet connection became available again, it could dump the footage backlog to the cloud.

“ The secure and encrypted connectivity is a must for the MCCC as live streaming and remote viewing often presents vulnerabilities in most CCTV solutions these days. It's so simple to give anyone authority to access certain cameras and then remove it quickly and easily. Eagle Eye Networks ticks all the boxes for us here at Intelligent Security Integration as a permanent or mobile solution – it just works. ”

*Stephen Bell
Managing Director, ISI*



About ISI Australia

Intelligent Security Integration Australia Pty Ltd (ISI) has 15 years of direct experience in security and surveillance equipment sales, installation and support. Through close working relationships with a wide variety of clients, it became clear there was a need for a specialized, mobile CCTV command centre. The MCCC (mobile CCTV command centre) has been created for use wherever a traditional CCTV set-up is logistically unfeasible or cost prohibitive. This can be a temporary implementation such as for major events, outdoor concerts and festivals, or in response to civil unrest or protests in urban areas. Mobile command centres have been in use for some time with emergency services, however these tend to focus on an administrative capability for management in the field. As such they are generally larger in size (bus, caravan or truck) and do not primarily support the deployment of mobile CCTV that is independent of fixed power and data infrastructure.

ISI Australia has focused on the development of the MCCC vehicle with three infra-red cameras mounted to a 12.5 metre telescopic mast that must function effectively in all conditions and controlled

SOLUTION



A complete end-to-end solution, utilizing Eagle Eye Networks Cloud Security Camera VMS, was the answer. The van was equipped with the Eagle Eye Bridge 310 and the Eagle Eye CMVR 224.



The cloud based security management and recording systems by Eagle Eye Networks eliminate the need for DVRs, NVRs and PCs, thus limiting the initial outlay for a security system. Furthermore, cloud storage is fully scalable and you only pay for what you need - the Eagle Eye Networks system literally grows with your business. The Eagle Eye Cloud Security Camera VMS can work with various ONVIF profile S compatible

IP cameras or any analog cameras via BNC connectors. There is only one user name and password to log in to view all cameras via any web browser or iOS/Android smart phone.

The Eagle Eye Bridge 310 receives and analyzes video streams from up to 16 IP or 8 analog cameras, provides on-premise buffering for bandwidth management, detects camera issues and automatically transmits camera and system status information to the Eagle Eye Cloud Data Center. The Eagle Eye CMVRs provide additional on-premise video recording when needed.

from within the vehicle. Eight static CCTV cameras were mounted to the vehicle roof ensure 360-degree coverage of any site.

ISI Australia has also developed a suite of autonomous rapid deploy camera kits, specific for 15 km range remote surveillance operations, streaming live footage to the MCCC over a private, secure network. These camera kits have GPS tracking, integrated battery power, private Point-to-MultiPoint (PTMP) encrypted wireless network plus cloud connectivity over 3G/4G LTE networks, with up to 2 weeks' remote operational capability.



All data can be streamed live to eight HD monitors in the vehicle and backed up to a server locally as well as streamed to the cloud for remote monitoring and backup. Integrated batteries and generator are supported by rooftop solar PV to give a 24-hour autonomous off-grid capability.

RESULT



The completed unit was unveiled at the Security Expo in Melbourne in July 2016. Inside the MCCC is a full control room with two workstations and an observation area. Video streams are managed via Eagle Eye Networks and there is live video streaming for event and incident management and a full onboard recording system for investigations. The unit has GPS tracking and remote viewing can be undertaken through the cloud as well as at the MCCC. The MCCC has a generator, giving it a stand-alone power source.



“The decision to use Eagle Eye’s 310 bridge in our mobile CCTV command centre was easy. I’ve been in the electronic security industry for over 20 years, and I’ve seen trends and products that have come and gone. I can honestly say I’ve never been as impressed with a product as I was with Eagle Eye. The system replicates an enterprise CCTV recording solution with such simplicity. You have the flexibility of full cloud recording or a combination of on-site storage and cloud recording. The interface is intuitive and easy to use - it ticks all the boxes. We also use the Eagle Eye 224 solution in our custom made rapid deploy camera units - again, the versatility was really key in our decision.”

*Stephen Bell
Managing Director, ISI*

The MCCC vehicles surveillance benefits include:

- Remote viewing of footage from anywhere
- Cloud based back-up for client remote viewing
- Vehicle equipped with audible warning alarm system with two-way communication
- Cost effective, flexible surveillance option usable literally anywhere

The Mobile CCTV Command Centre is ideal for:

- Sporting Events, Festivals, Outdoor Concerts, Etc.
- Short term site security
- Anywhere traditional CCTV has limited or no coverage
- A temporary extension to a permanently installed video surveillance system

Since its unveiling, the MCCC has received positive attention worldwide. Austrade, in support of the National Innovation and Science Agenda (NISA), will host a series of tailored activities at South by Southwest Interactive in March 2017 in Austin, Texas to profile Australia as a source of technology and innovative solutions.

MCCC Vehicles are Available for Individual Design and Purchase

The units are fully customisable beyond the addition of CCTV equipment from leading IP networking manufacturers Axis Communications, to include industry or agency specific communications and monitoring apparatus.



Intelligent Security Integration has 15 years' direct experience designing and installing state of the art, multi-faceted electronic security solutions across all business sectors throughout Australia. We designed and built the first MCCC as a hire service for event management companies however, its unique design features and our ability to customise the vehicle for use in literally any situation, has led to demand from Government agencies, emergency service providers and private security organisations around the Asia Pacific region to build units specifically for their needs.

MORE INFORMATION

<http://www.EagleEyeNetworks.com>

<http://www.isiaustmccc.com.au>

<http://isiaust.com.au/sample-page/100-on-demand-cloud-security-camera-system/>