

## MOBILE CCTV WITH MAXIMUM IMPACT

Oracle Vision have partnered with Maximum Security Services to enable Maximum to deliver an eye-catching and highly effective Mobile Control Unit (MCU). The MCU is a true mobile command and control centre, housed in a 40 foot articulated trailer, matching and often exceeding that of any small modern town centre control room.

As part of the design, the MCU can be quickly deployed and in operational use within 10 minutes. This makes it an ideal solution for public order duties, demonstrations, disaster areas and terrorist threats as well as the events industry such as large festivals and football matches, for which it was primarily designed.

Maximum Security Services was set up in 2000 as specialists offering a solution to high risk security situations around the country. As the company expanded, they developed an in-depth understanding of the security measures required in situations ranging from festivals to football matches and everything in between. "We had a very clear idea of what solution was needed, for example, in the middle of a field or for a demonstration," says Garry Bulmer, Company Director of Maximum Security Services. "Even in situations where there was security already in place, it became clear that the option to add more for special occasions was often required."

Mr Bulmer chose Oracle Vision to advise on and to install the CCTV element of the control unit. "They were recommended to me by an associate in the industry and they immediately impressed me," he explains. "From the outset I could see that they really knew their stuff but, more than that, they understood what we were trying to achieve and how to get there."

### Changing times

The concept of the MCU isn't a new one. Looking back about seven years, the police, and later the county councils, were using vehicles with CCTV to target anti-social behaviour and problem areas. The solution provided by Maximum goes much further, however. The unit is completely self-sufficient and extremely secure. Unlike the smaller units used by the authorities, the MCU doesn't need to follow crowds around but can be parked in one spot and follow the action on the strategically positioned cameras.

The MCU also offers some sound advantages compared to its static counterparts. "We were speaking with a client who told us that he'd been quoted two weeks to have 20 cameras positioned and ready to use. This would take us under a day to achieve," says Mr Bulmer.



**MOBILE CONTROL  
UNIT**

### **Unbeatable coverage**

The unit can cover an area of four square miles from where it is based. It contains CCTV cameras and recording equipment, VHF/UHF radio communications, mobile phone systems and satellite phones, weather data systems, full internet broadband access, welfare facilities, remote monitoring and emergency service facilities to enable the police to work in the unit in partnership with the client company.

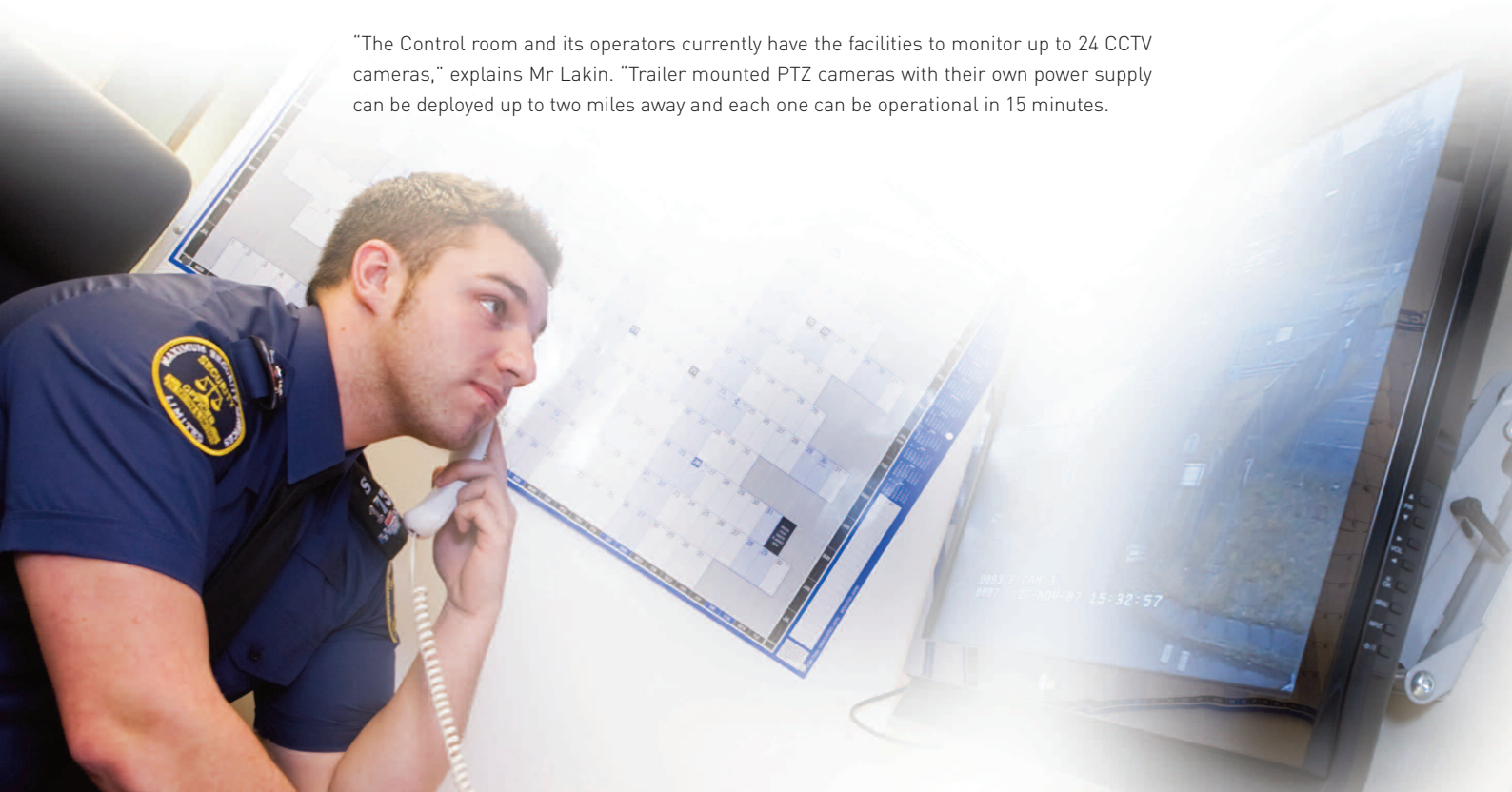
The three principal Directors of Oracle Vision Ltd have decades of experience of what's needed to get results in the CCTV industry. This experience not only includes installation expertise but also includes a background of senior management positions in the CCTV manufacturing sector, including network video, placing them at the forefront of technical innovation.

Chris Lakin, Technical Director explains: "During our time spent at leading-edge manufacturers we developed close relationships with the Norbain team over several disciplines and know their skill set well. It was, therefore, a natural decision to choose Norbain to supply the CCTV equipment for the install." Mr Lakin adds, "They have good stock availability, a wide range of professional products and our dedicated account manager is always there to offer support whenever we need it."

Footage from Pelco Espirit cameras is viewed on JVC 17" colour monitors which are attached using Vista flush-wall mount brackets. Pelco keyboards with vari-speed PTZ joystick control have been included for direct control of the Espirit cameras. Real-time colour quad processors from Vista accept both colour and monochrome images without degradation of the picture quality. The quad also offers alarm inputs, loop-through motion detection and video loss alarms.

All images are recorded in real time on a Dallmeier DVR and any incidents can be patched through to the dedicated Emergency Service Operations room where the incident can be monitored as and when it happens. In addition to this, the images can be uploaded via the internet to any client headquarters in the UK or Europe.

"The Control room and its operators currently have the facilities to monitor up to 24 CCTV cameras," explains Mr Lakin. "Trailer mounted PTZ cameras with their own power supply can be deployed up to two miles away and each one can be operational in 15 minutes.



### Hard wiring versus wireless technology

In the majority of cases, the cameras on the trailers are hard-wired back to the MCU, providing a 'plug and play' solution suitable for most requirements. "We prefer using the hard wired solution because of the reduced cost and the increased picture clarity," explains Mr Bulmer. "We found that we can usually run the cables around the perimeter of the event and under the hedgerows without any problem." Where cabling is not a viable option, such as when rivers, roads and bridges are involved, images are transmitted back to the MCU using a 5.8GHz transmission. This can also be useful for traffic monitoring as it means that vehicles aren't running over the cables. Because the cameras can monitor distances of up to two miles, they can be used to keep any eye on any queues of traffic or any vehicle accidents. "If we spot something on the cameras we can notify the organisers and the police to let them know that a situation is developing, allowing them to tackle the issues earlier and ease further congestion," says Mr Bulmer.

Due to the unusual application there were a number of additional challenges to overcome in the installation "Each installation choice was carefully thought through," explains Mr Lakin. "In the end, we provided solutions for an unconventional power supply, an easy interface with wireless transmission, multiple control points with a full cross point switching matrix and an on-board satellite broadband to any point in the world. Attention to detail is also highlighted in the monitor wall, which was carefully selected to ensure low heat emissions, yet high picture quality."

"I have been extremely impressed with the technical capability of the Oracle Vision team," says Mr Bulmer. "They not only provided excellent advise at the start of the project, their engineering skills are second to none and their attention to detail has ensured that we received a highly professional system. They're as proud as we are of what has been achieved."



### **Future expansion**

Mr Bulmer has a number of ideas to expand the services the MCU can offer. "At the moment we're looking at offering a barrier system," he says. "This can be bolted across an access road with an intercom system hooked up to allow for authorised entry only." Automatic Number Plate Recognition and thermal imaging technology are also planned for the near future.

Maximum is also in the process of designing a support trailer that will provide office facilities and briefing rooms for everyone involved with the event. In fact, the organisers' own facilities will benefit from the technology on-board the MCU. "We can provide them with satellite telephones, internet access and a whole host of other benefits. By providing them with a spot monitor they can also see all the CCTV footage for themselves." Another interesting use of this system is to give first aiders a heads up on members of the public that have been injured. This allows them to immediately assess the situation and determine what medical kit would be most suitable and which course of action to take before even reaching the scene.

Mr Bulmer is understandably very proud of what Maximum has achieved. "As far as I know, this is the largest and most advanced MCU or its kind and it is attracting a huge amount of interest from a wide variety of sources." With plans to take the unit into Europe and even expand the fleet of vehicles further, Maximum looks set to become a familiar face in the industry.

### **About Oracle Vision**

Oracle Vision is a CCTV and Access Control specialist providing installation and consultancy service throughout the UK and Europe.

Their innovative yet effective solutions have helped their partners to secure convictions, reduce crime and increase feelings of safety in applications including housing, education, retail and transport.

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