



## Supply & Installation of Hi-Res / Network Friendly IP Video Solutions by

# MOBOTIX

MOBOTIX AG, a German company, has designed a revolutionary and cost efficient high-resolution video system. It is the leading pioneer in network camera technologies involving a solid state, computer network friendly, decentralized concept.

### High-Resolution System

The higher the resolution, the more information contained within an image, and the easier it is to identify vehicle number plates or facial features. Using traditional (analog) technology, a live image has no more than 0.4 megapixels and a recorded image only has 0.1 megapixels (CIF). By comparison, a MOBOTIX camera with 3.1 megapixels records around 30 times more detail. As a result, larger image areas with up to 360° panorama are possible: this reduces the number of cameras required, hence and cost. For example, four lanes of a service station can be recorded using a single MOBOTIX camera instead of four conventional cameras.

With conventional analog systems, the cameras only supply the images while the processing and recording is done elsewhere on a central PC (computer) or DVR using video management software. This traditional centralized structure is unsuitable for high-resolution video systems, since it requires not only high network bandwidth, but also needs enormous PC processing power to support several cameras. In addition any fault in the DVR means a complete failure of all recording.



Unlike other systems, the decentralized MOBOTIX concept incorporates a high-speed computer and, in many cases, a digital memory (SD card) for long-term recording inside every camera. The cameras are connected and powered via a single ethernet cable ("POE"), and assigned an IP address. The PC is now used only for viewing, not for analysis or recording. As a result, MOBOTIX cameras can record events even without a running PC and digitally record videos with sound for archiving purposes.

MOBOTIX video solutions therefore require significantly:

- fewer cameras due to the highly accurate detail of wide-angle images with megapixel technology,
- fewer PCs/DVRs, because around 40 cameras can store high-resolution video with sound efficiently on a single PC, or no PC at all when recording on the camera's digital storage,
- lower network bandwidth, because everything is processed in the camera itself and the high-resolution images therefore do not have to be constantly transferred for analysis.

### Robust and Low-Maintenance

MOBOTIX cameras have no moving parts, they are so robust that maintenance is reduced to a minimum. The unique temperature range from -30° to +60°C (-22° to +140°F) is achieved without heating or fan at only 3 watts power consumption. Its web site [http://www.mobotix.com/eng\\_AU/Products](http://www.mobotix.com/eng_AU/Products) provides details.

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