

## WHITE PAPER Direct Mobile Videocasting

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Since the beginnings of video surveillance, there has been a fundamental need for people to view images coming from stationary cameras to protect their interests, whether they may be assets, personnel or citizens. Stationary cameras have moved from analog to digital, from visible to even infrared. The main shortcoming of stationary cameras is the difficulty in maintain control during an incident. Incidents are chaotic, it is extremely difficult to isolate the cause of the problem. In this scenario, an alternative means of getting to the root cause must be sought. Direct Mobile Videocasting is that means of obtaining additional video information. This is video from a mobile (i.e. moving) camera solution, transmitting information through an internal network, like an intranet or through a wide area network, like the Internet. Unlike a fixed camera solution, the advantage of direct mobile video is the capability of obtaining video information from more perspectives, immediately.

- *Direct Mobile Videocasting* is key to obtaining additional information that is not readily available from the vantage point of stationary cameras.
- *Direct Mobile Videocasting* can be used for personnel safety – law enforcement officials can provide additional information via video feeds directly from the incident to command personnel.
- *Direct Mobile Videocasting* can be used for asset management – incident commanders are able to reassign personnel in order to prevent catastrophic events from happening.
- *Direct Mobile Videocasting* can be used to extend your expertise – additional expertise may not be on site and thus the information may not be available – with direct mobile videocasting, this expertise can be tapped while the individual is en-route, while he is in another country, or even while he may be detained, on-location, at another event.

The ultimate goal is to provide a system level solution that is capable of providing enough information for decisions to be made immediately, correctly and with confidence.

There is a fundamental shift towards the implementation of mobility in security and surveillance applications - NOW. Although fixed and hard-mounted PTZ cameras have significantly improved in their performance (resolution, image quality, etc.), they are still limited by their coverage area. Imagine the benefits of being able to view an image from a ground level or from a shadow region\*. The key to direct mobile videocasting is the immediacy of the information that can be obtained, *and* the location independent nature of the information – getting information *to anywhere, from anywhere, now*.

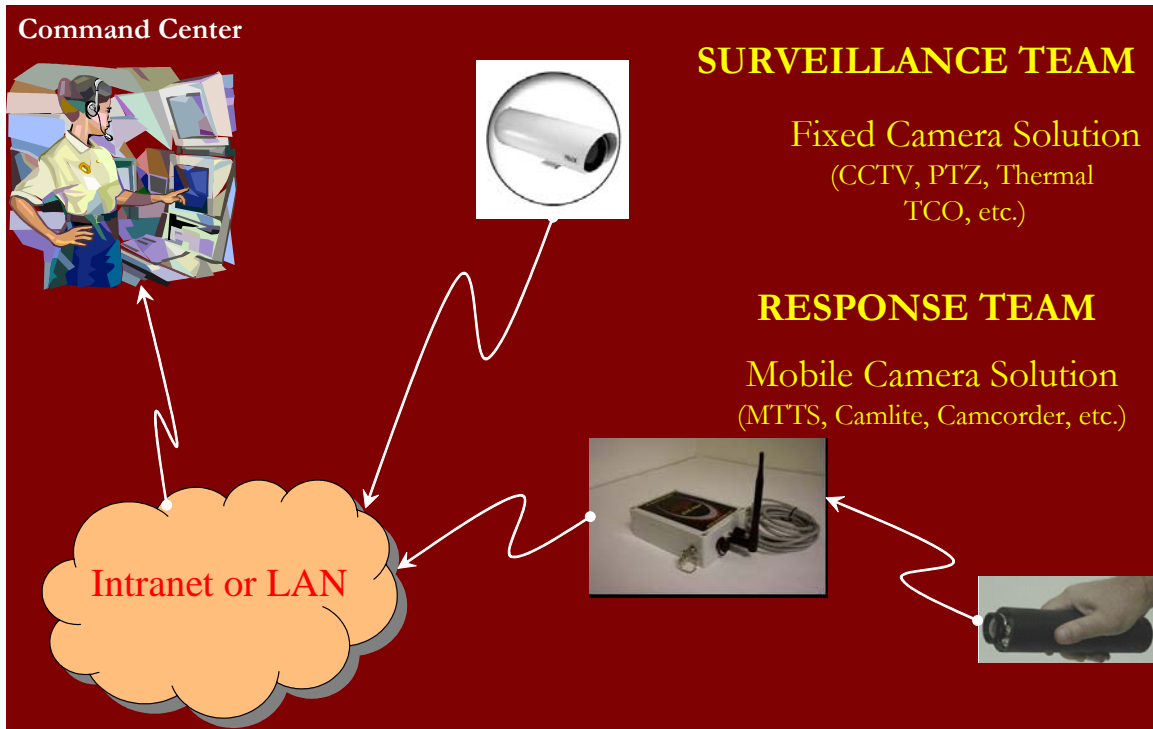
Consider power plant applications, where even in the optimal situation for PTZ cameras, a fixed camera can only give part of the information. A mobile camera in the hands, of say, a patrol or security officer increases the chances of obtaining a critical image from an incident, obtaining real-time images from a sensor or gauge, real-time video information from an inspection exercise. Direct mobile videocasting is a synergistic add-on to the legacy PTZ systems currently in place and being deployed. ***Stationary cameras are an integral part of surveillance and the mobile camera units are an integral part of the response.***

### ***Features of mobile video:***

- Camera is mobile – increases flexibility and provides alternative viewpoints
- Battery operation enhances mobility
- Receiver can be collocated with existing fixed cameras for intranet applications
- Receiver can be portable and can be battery operated for internet applications
- Video is transmitted across an intranet or internet for viewing, evaluation or interpretation
- Video can be recorded and archived for later viewing and analysis

**Benefits of mobile video:**

- Images can be viewed at any angle or direction
- Enhanced safety of security personnel
- Following a suspect into or around a building is simple
- Tracking a suspect is easy
- Immediacy of information from multiple vantage points
- Extrapolation of expertise to a remote location – expert of team does not have to be on site
- Expansion of the situational understanding through multiple video feeds
- Increased number of “correct decisions” due to richness of information



K&A Wireless manufactures a full line of wireless video and internet-based products aimed at executing on the direct mobile videocasting concept. The EYE-View system is capable of providing the mobility required to be used synergistically with stationary, PTZ cameras. The EYE-View is the first mobile and portable unit that can be deployed instantly by first responders to provide mobility to a video feed. The EYE-View can be used with visual cameras, camcorders or thermal imagers – essentially any video source. Contact K&A Wireless for a solution to your specific applications.

\* defined as a region that is not viewable by a hard-mounted PTZ camera

Featured Applications of Direct Mobile Videocasting	
<i>Power plant inspections and security</i>	<i>Fire/HazMat operations</i>
<i>Security &amp; surveillance</i>	<i>Pipeline inspections</i>
<i>Crowd control/Riot response</i>	<i>Tactical operations - Military</i>

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