

SESYS MX TORCH CAMERA

Application Note

The SeSys “Torch Camera” has been developed in direct response to our customers’ needs. When we listened to what it was they wanted the requirements were often very similar; Portable, simple configuration, low operating cost and flexible. Realising these needs took sometime but the focus remained with the customer and their continued feedback contributed throughout the design process.

Comprising a high resolution IP camera and 3G router, the Torch Camera contains everything that is required to capture and deliver images from a remote location. There is no need for a fixed telephone line as communications are handled directly by the system. The Torch Camera is ideally suited to installations both short and long term with the additional flexibility of being able to be relocated in minutes.

Portability has been achieved by making the Torch Camera as small as possible without compromising strength or integrity. At 232x163x271mm the Torch Camera can be used as a handheld device for rapid deployment or for incident management. With a built-in battery back up the Torch Camera can be used for up to 20 hours before needing to be plugged in. This also allows for breaks in power when the camera is used for extended periods where power maybe unreliable, such as a construction site.

The end user only needs to use a device capable accessing the internet to view images from Torch Camera. This is achieved through a web interface and is password protected thus ensuring the security of the device and the location. Access couldn’t be more simple and is ready to go when the Torch Camera is delivered, quite literally switch on and view.

Overcoming the obstacle of being able to use standard off the shelf SIM cards was crucial as the use of expensive Fixed IP SIM cards becomes prohibitive when a number of cameras need to be rolled out. SeSys have designed a system for doing just that enabling customers to use their own SIM cards should they wish. Alternatively SeSys install SIM cards into the GPRS/UMTS/HSDPA/HSUPA router. Resolving the IP address of the Torch Camera and being able to connect using a variety of technologies mean that the camera is accessible even in remote locations. The true benefit of using an off the shelf SIM card is the fixed data bundles from the mobile operators are not only less expensive but there is no fear of data overrun in to expensive per megabyte charges as has been the case with specialist vendors. The customer now has complete visibility of operating costs.



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With interchangeable lenses the Torch Camera can be setup for optimum performance in a variety of applications. Whether a clear view of an access point, construction site or a room is required there is a lens to suit. Changeover takes a minute and provides a clear view of the subject. High resolution (2048x1536) images combined with video motion detection capture activity in detail that enables vehicles or individuals to be identified. Other uses include time lapse images of a construction site so a detailed overview of construction can be made into a video. A super wide angle lens is particularly well suited when the camera is to be carried around by someone on site.

SeSys Torch Camera reduces company costs and lowers their carbon footprint whilst still allowing numerous people to visit site! As pressure is placed to reduce cost and the environmental impact of site visits the Torch Camera is the answer. As Torch Camera is carried around site engineers, operators, managers and investors can all log on to the camera and see what is happening. There could be a need for technical support, discussion about something specific, a visual verification, the list goes on. A quick and immediate view minimises delay, makes better use of people's time and clarifies explanations made by telephone.

Security is one job that Torch Camera performs but recording images for use on web sites and health and safety monitoring is also valuable. An internal 8GB storage card can be used to record many events. FTP and email can also be used to deliver images off site. Utilising the camera's intelligence these images can even be routed to where they are needed. This can be achieved based on time and the type of activation. Remote users can also activate recording or save a single image. All images can be processed off line using additional, free of charge, software.

Overall our customers have been delighted with the Torch Camera. They use it for looking at allsorts of things like factory automation, building sites, wildlife, road and rail networks to name a few. An accountant quoted that with Torch Camera it costs less than £1 per visit to site. Since time is money as the saying goes and with so many people showing clear savings the longer you leave making the decision to implement Torch Camera the more it costs you.

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