



## Internet Based Digital Camera Control Solution

### Objective

Control and operate a digital camera from a remote location over the Internet.

### Requirement

Establish communication with the given digital camera to operate and control it over Internet, using a standard web browser. It should be easily customizable for diverse security and monitoring applications.

### Solution

A reverse engineering on the digital camera's I/O protocols was carried out to identify & establish communication with it.

An embedded web server was used to provide a remote interface to the digital camera. A web browser was used to request the web server for the needed operations. The web server controlled the camera with serial interface and transmitted the captured image to the browser client.

An attractive user-friendly web GUI was designed and developed (a virtual interface with a mock-up of the real buttons similar to those available on the camera) to ensure there was no change in the user behavior.

The solution was designed so that there was no demand for any special training to carry out Internet based operation and control.



For additional information, please contact:

#### Mobax Networks Private Limited



32 Race Course, Coimbatore 641 018, INDIA



+1 (91) 422 222 3335



+1 (91) 422 438 0780



[www.mobax.com](http://www.mobax.com)





## Technology, Platforms & Tools

A very low powered PC with a serial interface to control the digital camera. It has a bare minimum OS for running applications (embedded web server) with basic network layer (TCP/IP) and serial drivers.

## Future Scope

- Embedding this application that provides Internet connectivity & control as a device driver on to the device itself.
- As the application design is targeted at small form factor devices, it could be extended to operate out of handheld devices. This approach opens up a new vista of opportunities for diverse industrial applications and field service personnel.
- Offer it as an add-on OEM card to camera manufacturers.

## Services Hallmark

- Committed
- Proactive
- Cooperative

## Benefits

- Reliability
- Quality
- Cost
- Scalability
- Time

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