



## Helping a leading surveillance software company test a next generation surveillance camera

### Industry:

Security and Surveillance

### The Client:

IPNetCam is an advanced intelligent IP surveillance camera with complex video analysis capabilities. IPNetCam is a smart surveillance camera reference design based on digital signal processor DM6446 from Texas Instruments' DaVinci technology and Video Analytics algorithm from ObjectVideo Onboard analytics. IPNetCam efficiently recognizes and tracks objects just as a human brain can.

### Business Objective:

Our client's intelligent surveillance camera sends out Web page alerts and email alerts as soon as some human / vehicle appears / disappears / crosses a virtual line drawn on the camera's view. Also, the camera can store scheduled video on a network server with a choice of two codec's – MPEG4 & H.264, different resolutions and a range of bit-rates starting from 256Kbps to 7Mbps, thus making it suitable to all types of intra and inter networks. The CODEC & Resolution choices are also available for Live Video Streaming.

### Solution:

We were responsible for the refinement of resources & enhancement of requirements which forms the basis of a successful product. Our highly experienced and qualified team of QA engineers constantly analyzed the requirements while developing test cases using real time set of scenarios under which the system may fail to meet customer's expectations. Hence, if an extra but highly important & crucial feature was required, it was incorporated into the requirement & the design, thus enhancing & refining the requirements. We also tested IPNetCam in real scenarios especially where the system might have failed using a series of testing cycles.

### Challenge:

The biggest challenge we faced was to test the product in a real time environment, taking into consideration the extreme climatic conditions it would be used in. Features like correct identification of a vehicle/person/object needed to be tested for all varied conditions and probabilities without missing a single event. Also testing the Video analytics library for reliability in cases of alerts was an important task.

### Technology:

- Automation of various test cases for volume and 24x7 testing was done using the automation tool SilkTest 7.0

### Benefits:

- Identification of Strategy of testing to helping the client in identifying the **optimum Test setup** required to test an application as per the requirements.
- Automation** of test cases, a part of the expertise of ennovate engineers, has **helped reduce time** to test an application/product.
- Experience of testing software/applications in variety of domains ranging from **Web-based** and desktop applications to **Embedded Systems**.
- We have a dedicated team of **QA/Test engineers** who have years of experience in delivering quality as per the standards required by the client.

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# Case Study

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