

Aerospace Engineering and Test Establishment

Canadian Forces – Primrose Lake Evaluation Range



Genesis Communication Inc. provided a complete solution for real-time video monitoring of ordnance tests at the Primrose Lake Evaluation Range (PLER) near Cold Lake, Alberta.

Test personnel are able to deploy portable video cameras in the field, anywhere on the drop zones (DZ's) that fall within the bounds of the Evaluation Range.

Using a wireless transmission system the images from the camera are sent in real-time back to the Flight Test Control Room (FTCR) located approximately 40 kilometers away at 4 Wing Cold Lake.

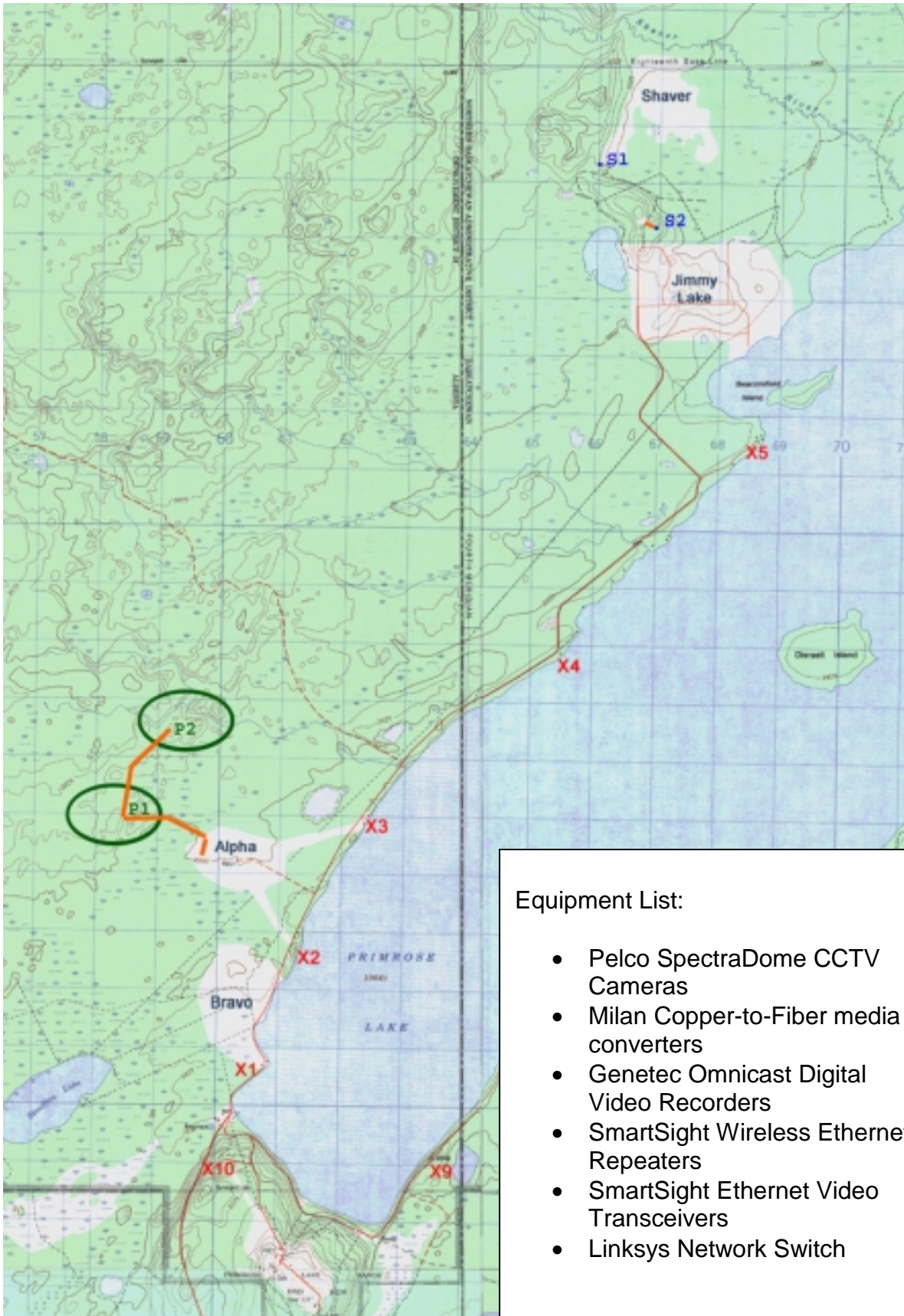
The cameras may be remotely controlled from the FTCR or from the Drop Zone tower located overlooking the DZ's.

Mission controllers may then record missions for later analysis to ensure proper target acquisition and laser spot targeting.

The Range Safety Officer also has the ability to monitor the video in real-time or to play back video of missions at the Drop Zone tower.

The system is also connected to the existing video theodolite cameras used for tracking of inbound weapons or aircraft.





Equipment List:

- Pelco SpectraDome CCTV Cameras
- Milan Copper-to-Fiber media converters
- Genetec Omnicast Digital Video Recorders
- SmartSight Wireless Ethernet Repeaters
- SmartSight Ethernet Video Transceivers
- Linksys Network Switch