

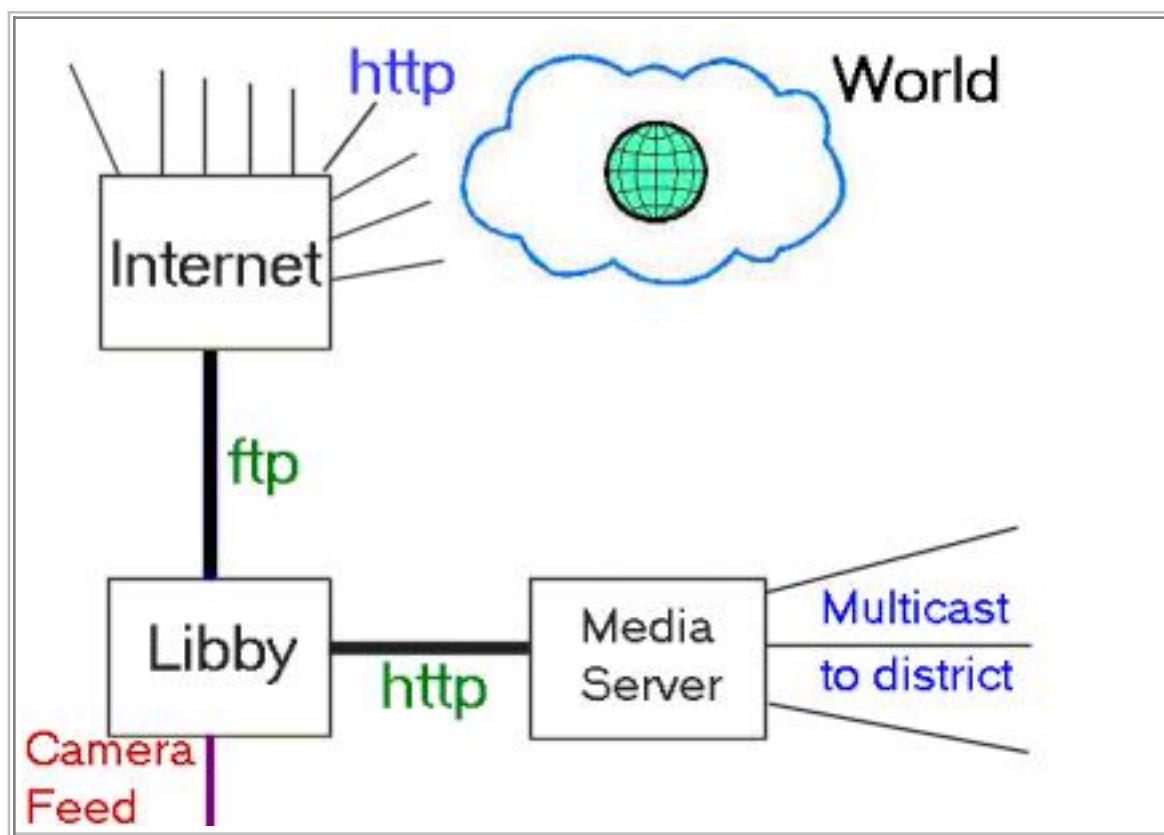
The Technical Part Of The Story?

Equipment used to make it happen! Camera: Pelco Color Surveillance Camera
Windows Media Encoder: COE-COMPUTER " Osprey 100 PCI video capture card "
Belkin F5U204 USB video dongle " Windows Media Encoder
9.00.00.2800 Windows Media Server: COE-COMPUTER " Windows Media
Services 9.00.00.3380

Camera Setup:

The camera is a Pelco color surveillance camera with a 2-10 mm zoom lens. It is zoomed in at about 4 mm to include the entire nest bowl. The camera and lens are housed in a Pelco sealed, weatherproof, camo painted, outdoor enclosure, with heated interior. The small heater inside the enclosure keeps the lens from fogging up. The enclosure is attached to the branch with lag bolts and is approximately 100' above the ground. The camera and heater run on 24 volts ac. There is a 120:24 volt transformer in the enclosure in which 120 vac supplies the equipment. One power and one signal (coax) cable go down the tree to the ground. From there they go 600' underground to the Libby Dam weather station which overlooks Lake Koocanusa. At the weather station the eaglecam picture signal goes to a microwave transmitter and is transmitted about a mile, at a baud rate of 115,200 kbps, to a receiver on top of the Libby Dam Visitor Center. From that receiver a coax cable goes down into the Visitor Center ceiling. In the Visitor Center ceiling the signal is split two ways. One goes to a monitor in the Visitor Center display area where the public can view the live broadcast on a television monitor. The other way goes to the Visitor Center basement where there is a computer that broadcast it over the local area network and to the internet.

An Overview Of The Network Connections:



Streaming Media The Windows Media 9 suite of video streaming applications along with the freeware Prysme utility provides streaming and capturing capability.

The computer at Libby receives the camera feed through both an Osprey 100 card and Belkin video dongle. The Libby computer then digitizes the Osprey signal with Windows Media Encoder 9. Then a local Windows Media Server pulls the encoded feed via http and multicasts the stream to the local intranet. Insufficient bandwidth to the internet prevents offering a video feed; instead, a snapshot of the feed is displayed to the public site. Prysme uses the Belkin feed to capture and upload a JPG every 10 seconds and is used since neither the Windows Media Encoder nor Windows Media Services is capable of extracting a single frame from the video stream. Separate inputs are required as the Osprey driver does not allow more than one application to access the video stream simultaneously.

Eagle Cam Link [Still Picture](#). Eagle Cam Link Live Video