



The e-Watch® Situational Awareness System runs over an Ethernet network. Because of the need for consistent reliable imaging your network must have enough available bandwidth. To help determine specific bandwidth requirements for your site, e-Watch provides a Traffic Calculator on its website at www.e-watch.com/networkcalc.htm. This document helps explain how to use the calculator and what factors are involved in calculating bandwidth.

The e-Watch Situational Awareness System consists of e-Watch cameras and encoders. These cameras and encoders work by sending digital video via Internet Protocol (IP) and require network bandwidth. To determine the estimated usage, use the e-Watch Network Traffic Calculator at www.e-watch.com/networkcalc.htm.

You can choose the type of images to send and store for each camera. Each type of image creates an independent stream from the e-Watch camera or encoder to the SiteWatch™ Server. That is, if you only want to archive JPEG data from one camera or encoder, then that device will create only one stream of JPEG images. If you choose to also archive motion video (SIF or QSIF), then the camera or encoder will also send a stream of video. You have the option of activating the stream for the type of data you want. The e-Watch cameras and encoders are capable of streaming up to 3 simultaneous streams. For a detailed explanation of the different streams and their benefits, please see the e-Watch™ Situational Awareness System Product Overview document at www.e-watch.com/Brochures/ProductOverview.pdf.

The main bandwidth usage factor is the number of cameras connected to your site. The more cameras, the greater the bandwidth. To determine the bandwidth requirements using the e-Watch Network Calculator, simply run the tests for one camera and multiple the results by the number of cameras.

Another factor in determining bandwidth requirements is image quality or compression. The greater the compression, the less the JPEG stream will become. This factor only affects the JPEG stream. Please note that modifying the compression significantly can yield unwanted results.

Image rate also affects the JPEG stream. This setting lets you modify the capture time. The greater the image rate, the longer the system will take between image captures and the less bandwidth it will use. Modifying this value will affect the playback of the data.

The activity percentage also plays a big factor. This percentage indicates the amount of time during the day you estimate that motion will occur. e-Watch Activity Gated Storage™ module will only capture data when there is motion.

For more information please refer to the SiteWatch™ Situational Awareness Software Administration Guide and e-Watch® Situational Awareness System Product Overview.

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