



byRemote Surveillance Resolution Guide

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Motion JPEG (M-JPEG)

JPEG stands for the Joint Photographic Experts Group standard, a standard for storing and compressing digital images. Motion JPEG (M-JPEG) is a video codec where each video field is separately compressed into a JPEG image. The resulting quality of video compression is independent from the motion in the image which differs from MPEG video where quality often decreases when footage contains lots of movement.

Image Resolution

The term resolution is often used as a pixel count per inch in digital imaging. The resolution of your video recording is calculated by the height of an image in pixels, the width of an image in pixels and combined with the compression ratio of the image.

Image Compression

Image compression is the application of data compression on digital images. In effect, the objective is to reduce redundancy of the image data in order to be able to store or transmit data in an efficient form. The file size of an image can be dramatically reduced with greater image compression.

320x240: Standard Resolution

Standard resolution using the byRemote Surveillance Center is an image at 320x240 at 50% compression which brings each JPEG file size down to approximately 16Kb per image.

Example:

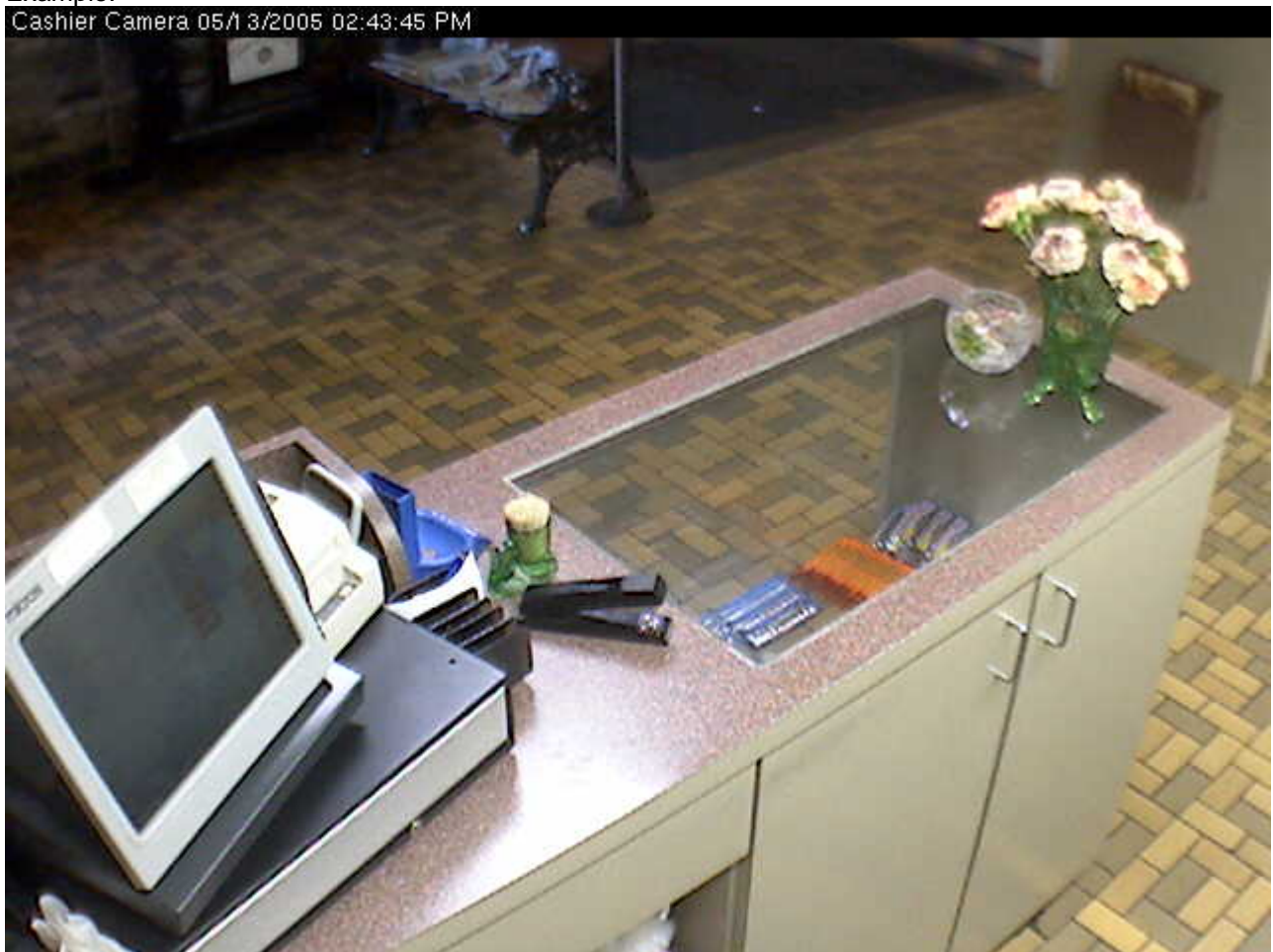


Off-Site Hosted or Central Storage: All hosted cameras recording to byRemote's remote servers in Fargo, ND are recorded in standard resolution. In addition, standard resolution recording is best used when archiving video for non-critical cameras, needing to conserve drive space, as well as conserve bandwidth when recording off-site to a central network storage unit.

□ **640x480: High Resolution**

High resolution using the byRemote Surveillance Center is an image at 640x480 at 50% compression which brings each JPEG file size down to approximately 50Kb per image.

Example:



Dedicated or Managed Storage: High resolution recording is best used with the network storage device is located at the same location where the cameras are installed. The cameras are recorded over the local area network and don't require the archiving to be done over a high-speed Internet connection which could use a lot of bandwidth. High resolution recording is not recommended when storing the video off-site unless you are using a small number of cameras.

Contact Information

For questions regarding the installation of a byRemote surveillance system, please contact byRemote Technical Support.

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