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## TECH BRIEF

### Installing Used CRT Projectors

The procedure of installing a used CRT projector is essentially identical to that of installing a new projector with one notable exception: you have to be careful where you position the raster on the phosphor faceplate. Here's what you need to know:

A CRT projector makes a video image by scanning an electron beam across a phosphor coated faceplate and then projecting that image on to a screen. See illustration 1. After many thousands of hours the phosphors get used or "conditioned". This is normal wear and tear. See illustration 2.

The key to installing a used CRT projector is to keep your image scanning exactly where it has been scanning the last few thousand hours. In other words, **scan the used section of the phosphor only**, don't increase the size of the image or you will have a combination of used and virgin phosphor being lit up and you will see it in your final image. See illustration 3.

When we install used CRT projectors the first thing we do is adjust the height and width of the scanned image so it falls directly on top of the used section of the phosphor. See illustration 3. When you have done that, place the projector on the floor and move it back until it fills the screen width. This is the **new distance** to install the projector at, regardless of whether it is on the floor or ceiling. This new distance is likely to be several inches different from the factory installation charts.

