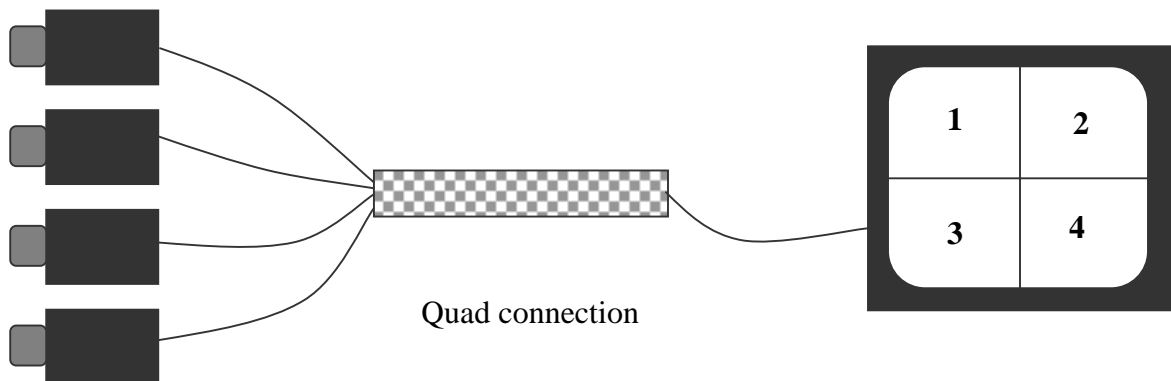


Quads

Quads allow 4 cameras to be displayed and recorded simultaneously. Quads digitally compress each camera and combine them into one video signal for display. The resulting display has a different camera in each quadrant. Quads are available for use with black and white and color cameras. A color quad will typically display black and white cameras normally, but a black and white quad will only display color cameras in black and white.



Quad





Quad display

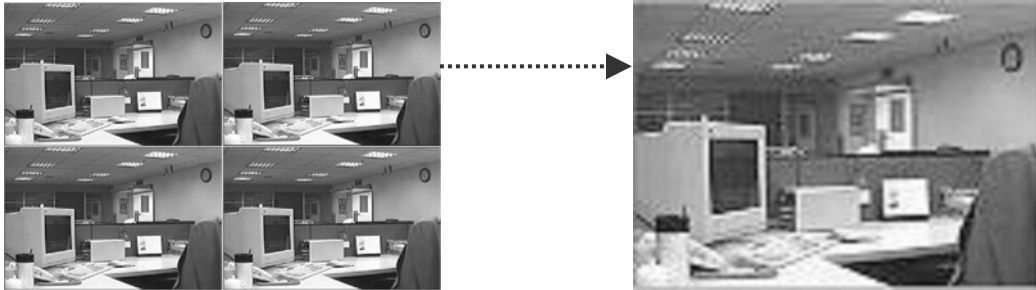
Refresh Rate

Refresh rate is how often the picture is updated. Real time refresh means that each picture is updated 30 times per second. Quads are available with real time and non-real time refresh rate. Non-real time quads may only update the picture 15 times per second. With non-real time quads any motion in the picture appears jumpy, like the target is moving in front of a strobe light. This is called strobe effect.

Zoom On Playback

When a recorder records images from a quad output it records the images exactly as they are displayed. When the images are played back, all 4 cameras are played back on the same screen. Quads that have zoom on playback capability can pull one of the cameras from the quad display and show it full screen.

The drawback to the feature is the resolution. Since a quad is compressing each image before displaying it the image is losing up to 75% of its resolution. When you zoom a picture from playback, you are enlarging a compressed picture. The result is a larger grainy picture.



Alarming

The alarming feature on a quad function similar to the alarming feature of a switcher. The main difference is that when an alarm signal is received, the alarmed camera may be displayed on the call output, or it may be displayed full screen on the main monitor. There may be loss of recording of the other cameras during the alarm, depending on the quad and how it is connected to the recorder. The duration of the alarm event can be limited by time or by the duration of the contact closure.

This document is part of a complete book entitled:
CCTV System Design & Installation

By Charles Aulner and Bryan McLane
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