



## SIGNAL INPUT CONNECTIONS

EDL Master Sync Monitors will automatically adapt to the user's synchronization system format. Three formats are supported. These are:

1. Red, Green, Blue video signals with composite sync on green (three cable hookup).
2. Red, Green, Blue video signals with separate mixed sync signal (four cable hookup).
3. Red, Green, Blue video signals with separate vertical and horizontal sync signals (five cable hookup). This is the normal connection for Sperry Marine Systems.

The video inputs may be adjusted to accommodate from 0.7 to 1.4 volts peak to peak video signal levels. AC coupling and DC restoration at the video amplifier eliminate any DC offset on the signal during the back porch portion of the video signal.

The external sync inputs can accommodate from 1.0 to 4.0 volts peak to peak signals without any adjustments. These inputs are AC coupled and DC restored by the monitor before thresholding occurs. These inputs may be either positive or negative polarity and need not be the same polarity.

All five signal inputs may be switched from  $75\Omega$  to high impedance  $20k\Omega$  for "loop-thru" operation. User-supplied BNC "T" adapters must be used to connect the additional devices between the raster engine and the final device on the line. Because of the very high performance of the devices involved, extreme care must be taken by following these guidelines.

1. The raster engine must be at the beginning of the transmission line. BNC "T" adapters must not be used at the computer graphics adapter.
2. All devices must be set for high impedance input except for the last device on the transmission line.
3. The last device on the transmission line **MUST have a 75 $\Omega$**  termination impedance and not have BNC "T" adapters at its connectors unless used for the terminators.
4. All cables **MUST be 75 $\Omega$**  impedance and as short as possible (for most signal sources cable length should not exceed 10 feet).

**NOTE:** These aforementioned rules are not unique to EDL monitors. They must be followed to assure proper operation of these high performance devices regardless of their manufacture.

