

# Pixel Correction in TVT 3CCD Telecine Equipment

**Background:** Owing to damage from cosmic ray radiation, the CCD sensors can develop light or leaky pixels with time. These can be seen as light spots against a dark or black background. They become more visible as the camera warms up to operating temperature.

In the Hitachi HV-D30 and HV-D30P 3CCD camera, the following official procedure will cancel out the leakage and usually make the problem disappear. We suggest warming up the camera first for one half hour or more.

The pixel correction for the HV-D30 is quite simple. Please have the customer follow the steps below.

1. Close the lens iris or cap the lens.
2. Press and hold the UP arrow and RIGHT arrow keys. Continue to hold the two keys while pressing the MENU key. Hold for at least 3 seconds.
3. The camera display should show the PIXEL ADJUST menu.
4. Use the DOWN arrow key to move the cursor to the AUTO SETUP setting.
5. Press the LEFT and RIGHT arrow keys together to begin the AUTO SETUP mode.
6. The camera should indicate SETTING on the AUTO SETUP line of the menu.
7. Verify that the defective pixel is no longer visible.
8. Remove power to the camera, and then reconnect power to return the camera to normal operation.

We do not know of pixel correction procedures for other model cameras.

We don't think the 1CCD cameras have a pixel correction function.

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