

Sony DVW790 Digibeta Camera

The DVW-790WSP is the perfect tool for demanding Digital Cinematography applications. It incorporates 2/3-inch (620K) Power HAD FIT CCD's with a 16:9/ 4:3 switchable aspect ratio

16:9 / 4:3 switchable FIT CCD

FIT CCD has a smear level of -140 dB, which means virtually immeasurable in a practical camera

12 bit Advanced Digital Signal Processing (ADSP)

Allows enhanced dynamic range, better tonal reproduction and the addition of many other software features

TruEye processing

The TruEye processing feature manages video signal data according to three factors - brightness, hue and saturation- so that with a wide dynamic range signal, color can be reproduced as faithfully as by the human eye, by eliminating the hue factor distortion.

Optional SDI output board

Allows the rear video out socket to be either analogue composite or SDI, selectable by a menu.

Optional Picture Cache memory board

Now you need never miss a picture again, this board stores up to 8 seconds of audio and video in solid-state memory. Thus an event up to 8 seconds previous to the time when you pressed the record start button is available. It is selectable to be 1, 2, 4 or 8 seconds, for example a store of 4 seconds gives effectively an instant start from standby off position.

Internal 50 watt established light system

This internal light system can be powered from the camcorder lithium-ion battery. The light can be switched on/off either manually or automatically, where the light goes on when you start recording and off when you stop recording.

Turbo gain up to 48 dB

Allows working down to 0.2 lux, better than the color capability of the human eye.

Auto trace white system

The ATW function makes it possible to automatically adjust the white balance as lighting conditions change. This function is useful when shooting in rapidly changing lighting conditions (for example, when moving from an indoor to an outdoor location). Conventional Auto white balance is also available both instead of and in addition to ATW operation. White B preset position is assigned for ATW operation by selecting either ATW or AWB B in the VF menu.

Dial in color temperature

You can program the camera to a certain color temperature, and then light to that, rather than using preset positions or auto white balance with gels to offset the balance. Also added is an offset function to slightly warm or cool a picture irrespective of the auto white setting, since the offset is removed before auto white and then added back in again when auto white is completed.

Built in film gamma curve

The F gamma represents the average transfer characteristic of various film stocks, and has a shallow slope in the dark areas leading to slight lifting of the very dark areas, and flattens off the highlights, to give a higher dynamic range. Programmable S gamma is also available.

Multi matrix feature

This allows any color to be grabbed, and it's hue and saturation to be altered within a range of around 20 degrees, and the saturation almost to zero. In this way many "in camera" effects can be made.

Programmable menu system

This allows every cameraman to make his own menu structure, by copying any single menu item from any other page and pasting it into your own page, which can then be stored on a setup card.