

Panasonic

AJ-D90
DVCPRO50 Dockable VTR
(PAL:625)



DVCPRO 50

The DVCPRO50 Dockable VTR Enables High-End Production with Your Existing Camera

The AJ-D90 is a dockable DVCPRO50 VTR that can convert the analog component camera you use now into a 50 Mbps/4:2:2 digital component recording system. Thanks to the DVCPRO50 format, the AJ-D90 delivers the superior picture and sound quality needed in high-end production. This format's 50-Mbps recording rate allows recording of 4:2:2 digital component video signals at a low 3.3:1 compression ratio.

The AJ-D90 connects to the camera via the same 68-pin connector used by conventional MII VTRs. This allows direct docking with cameras such as the WV-F575 as well as a wide variety of cameras with interface adaptor.

For added versatility the AJ-D90 also lets you record in the DVCPRO (25 Mbps) format, giving you the advantage of its longer recording time about one hour. The AJ-D90 combines outstanding performance with the compact size, light weight and low power consumption that are hallmarks of 1/4" systems.

Use the AJ-D90 for applications ranging from news gathering to high-end production.



DVCPRO50/DVCPRO Switchable: Outstanding Flexibility

DVCPRO50/DVCPRO Switchable Recording

The AJ-D90 can record in both the DVCPRO50 and DVCPRO formats. In DVCPRO50 you can record about 30 minutes of high-quality 4:2:2 pictures onto a compact 1/4" tape, while in DVCPRO recording time is doubled*. Letting you emphasize either picture quality or recording time, this single, all-purpose unit brings outstanding quality to every application from ENG to EFP.

*When the AJ-D90 records in the DVCPRO50 format, the recording time will be half that indicated on the DVCPRO cassette.

Compact Size, Light Weight, and Low Power Consumption

Use of 1/4" tapes helps make the DVCPRO50 and DVCPRO formats compact and lightweight. The AJ-D90 body weighs only about 2.8 kg. Power consumption is low, too, at 16.5 W maximum when recording.

Full-Colour Playback

The AJ-D90 can play back pictures in black and white on the viewfinder or in full colour on an external TV monitor via the VIDEO OUT terminal. This lets the field team check recorded pictures on-site and allows microwave transmission.

Easy Set-Up With On-Screen Display

Many parameters can be set and checked via the viewfinder or an external monitor. The AJ-D90 also incorporates digital hour meter.

Digital Audio Plus Analog Cue

The AJ-D90's two Audio/Mic In terminals (XLR) allow recording of two channels of superior digital sound. An analog cue signal can also be recorded onto a linear track for editing convenience (select from CH1, CH2 or Mix for the cue source).

*The DVCPRO50 format offers four digital audio channels, but the AJ-D90 records the same audio onto CH1/CH3 and onto CH2/CH4.

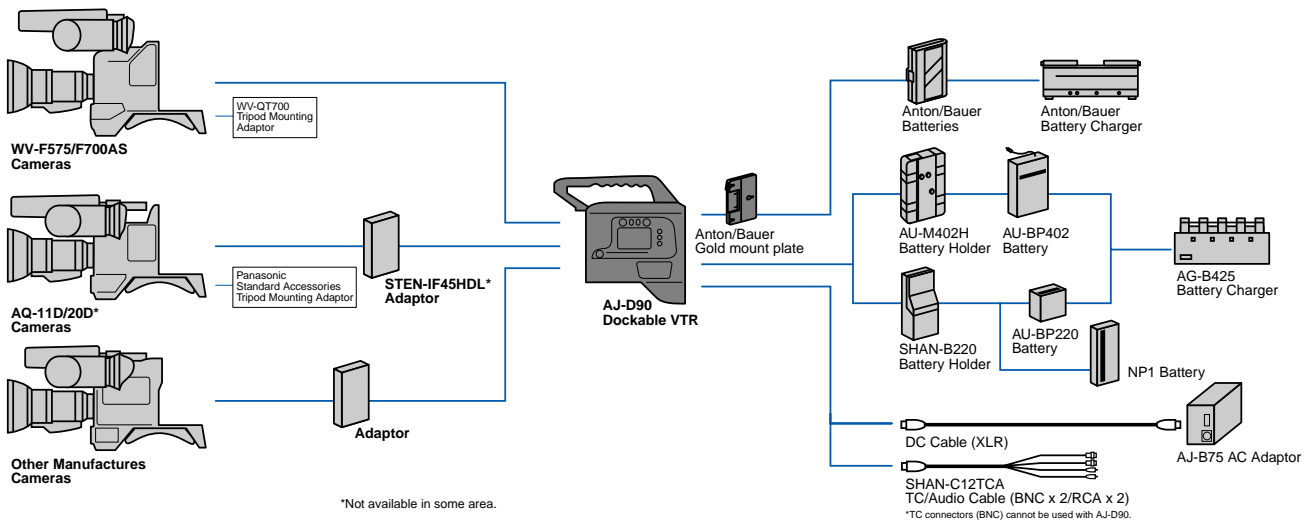
One-Touch Rec Review

This function allows one-touch playback of the last segment recorded, letting the operator check the pictures and the camera settings to minimize recording errors.

Built-In Time Code Generator/Reader

The AJ-D90's built-in EBU time code generator allows selection of FREE RUN/REC RUN, as well as user-recorded bits.





*Not available in some area.

Flexible Camera Connection

The AJ-D90 is designed for outstanding system flexibility, connecting to the camera via a 68-pin connector that supports direct docking with the WV-F575 and WV-F700AS cameras. An optional adaptor allows direct docking with the AQ-20D and AQ-11D as well. This gives you maximum flexibility for upgrading the system you use now.

Compatible with Various Battery Systems

The AJ-D90 comes equipped with an Anton/Bauer Gold Mount Plate (installed) that allows use of a variety of Anton/Bauer batteries. It can also run on Panasonic's AU-BP402 or AU-BP220 and the batteries of other manufacturers. You can use your current battery system just as it is.

Additional Features

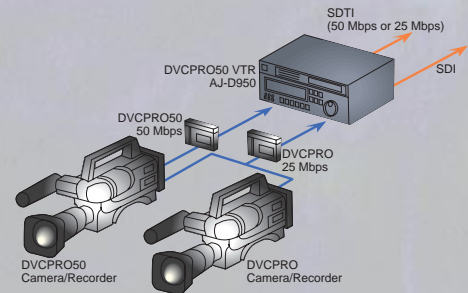
- Phantom power supply (48-VDC, rear connectors)
- Built-in monitor speaker
- Stereo mini jack (x1) for audio monitor
- Time code In/Out (BNC x2)
- Large LCD multi-display
- External DC In/Out connector





DVCPRO 50

DVCPRO50 for High-End Production



DVCPRO50 Format

The DVCPRO50 format records at 50 Mbps, doubling the tape speed and recording tracks of DVCPRO. This gives you the superior quality needed for high-end video production, along with the cost-performance and ease of use of 1/4" tape.

4:2:2 Component Video

With DVCPRO50, you can now create high-end video productions - such as TV commercials with chroma key, multi-layering and computer graphics - using 4:2:2 component video recording and playback on convenient 1/4" tape. Featuring a 3.3:1 compression ratio, picture degradation is minimal during both compression and decompression, so the 4:2:2 images retain their superior quality.

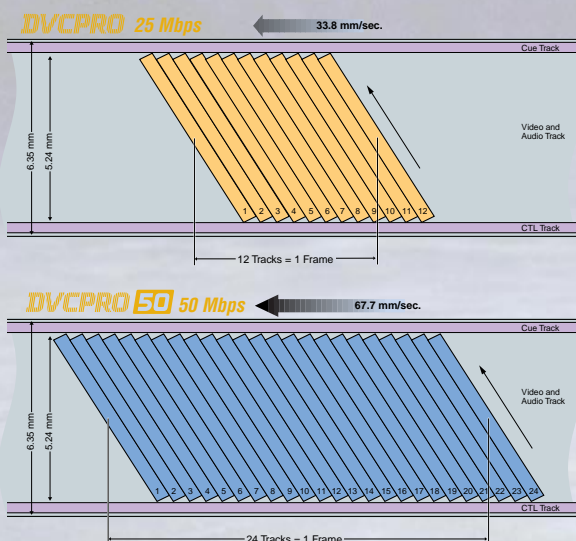
4-Channel Digital Audio

Full 48-kHz/16-bit digital audio can be recorded on all four channels*. This assures the superior sound quality and reliability demanded in high-end video production.

*The AJ-D90 records the same audio onto CH1/CH3 and onto CH2/CH4. 2-channel in DVCPRO (25 Mbps) mode.

DVCPRO (25 Mbps) Compatibility

DVCPRO50 integrates seamlessly with DVCPRO (25 Mbps). AJ-D90 can both record in the DVCPRO format and play back tapes recorded in DVCPRO. When recording, you can choose to emphasize either picture quality or recording time. The recorded results then can be used with no worry about format incompatibilities.



S P E C I F I C A T I O N S

| General | | Audio* | |
|-------------------------|---|---------------------|---|
| Power Supply: | DC 11V to 17V | Sampling Frequency: | 48kHz |
| Power Consumption: | 16.5W | Quantization: | 16 bits |
| Operating Temperature: | 0 to +40°C | Frequency response: | 20Hz to 20kHz, ±1.0dB (reference level) |
| Storage Temperature: | -20 to +60°C | Dynamic range: | More than 85dB (1kHz, AWTD) |
| Operating Humidity: | Less than 85% | Distortion: | Within 0.1% (1kHz, reference level) |
| Weight: | 2.8 kg (including handle) | Wow & Flutter: | Below measurable limit |
| Dimensions (W x H x D): | 139.5 x 277 x 305 mm (including handle) | Head room: | 18 dB |
| Tape: | 1/4" DVCPRO cassette tape | Emphasis: | T1=50µs, T2=15µs(ON/OFF) |
| Tape Speed: | 67.708 mm/s (DVCPRO50) | Input | |
| Max Rec Time: | Approx. 33 min (DVCPRO50, using AJ-P66M), 66 min (DVCPRO, using AJ-P66M) | Audio IN: | XLR x 2 (CH1/CH3, CH2/CH4), 10 kΩ, balanced, MIC/LINE switchable, MIC: -60/-50/-40dBu, LINE: -6/0/+4dBu |
| FF/REW Time: | About 3 min. (using AJ-P66M) | MIC IN: | XLR x 1, balanced/unbalanced, 3kΩ, -60/-50/-40dBu, selectable, Phantom +48V |
| Video | | TC IN: | BNC x 1, 0.5 to 18Vp-p, High impedance |
| Sampling Frequency: | Y: 13.5MHz, Pb/Pr: 6.75MHz | Output | |
| Quantization: | 8 bits | Video OUT: | BNC x 1, 1.0Vp-p 75Ω |
| Error Correction: | Reed-solomon product code | Audio OUT: | XLR x 1, 0 dBu, Low impedance, balanced, CH1/CH2/MIX Multi-Connector (12P), -20 dBu, Low impedance, unbalanced |
| Compression Method: | DCT and Variable-length Coding | TC OUT: | BNC x 1, 1.5Vp-p Low impedance |
| Compression Ratio: | 3.3:1 (DVCPRO50) 5:1 (DVCPRO) | Phones: | Stereo Mini Jack x 1 |
| Bit Rate: | 50 Mbps (DVCPRO50) 25 Mbps (DVCPRO) | Others | |
| Band Width*: | 50 Mbps Y: 25Hz to 5.75MHz, +1.0/-3.0dB Pb/Pr: 25Hz to 2.75MHz, +1.0/-3.0dB 25 Mbps Y: 25Hz to 5.75MHz, +1.0/-3.0dB | DC IN: | XLR 4 x 1 |
| S/N Ratio*: | 55dB | DC OUT: | 4P x 1, DC11 to 17V, 100 mA |
| K Factor(2T)*: | Within 2% | | |
| Y/C delay*: | Within 20 ns | | |

*The specifications given above were measured by playing back tapes recorded by this unit on standard DVCPRO50 VTRs, using analog component out. Weight and dimensions shown are approximate. Specifications are subject to change without notice. These products may be subject to export regulations.

O P T I O N A L A C C E S S O R I E S



AU-M402H
Battery Holder



SHAN-B220
Battery Holder



AU-BP402
Battery Pack



AU-BP220
Battery Pack



AJ-B75
AC Adaptor



Anton/Bauer Battery Pack
Battery Pack



ABP800
Anton/Bauer Battery Kit



AG-B425
Battery Charger
for AU-BP402 and AU-BP220

Panasonic

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Austria Tel. 43-1-61080-773
Bahrain Tel. 973-252292
Belgium Tel. 32-2-481-0481
Brazil Tel. 55-11-889-4000
Canada Tel. 1-905-624-5010
Chile Tel. 56-2-555-9530
China Tel. 86-10-6836-4882
86-10-6515-8828

Czech Republic Tel. 42-02-2166-4120
Denmark Tel. 45-43-200-853
Egypt Tel. 20-2-3938151
Finland Tel. 358-9-521-5253
France Tel. 33-149464388
Germany Tel. 49-611-18160
Greece Tel. 30-1-9899300
Hong Kong Tel. 852-2313-0888

Hungary Tel. 36-1-344-2614
Indonesia Tel. 62-21-801-5666
62-21-385-9449
Iran Tel. 98-21-2271463
Italy Tel. 39-2-67881
Jordan Tel. 961-6-586-1914
Kuwait Tel. 965-481-2123
Lebanon Tel. 961-1-216827
Malaysia Tel. 60-3-755-0511
60-3-757-6622

Mexico, D.F. Tel. 52-5-488-1000
Netherlands Tel. 31-73-6402-505
New Zealand Tel. 64-9-272-0100
Norway Tel. 47-22916800
Pakistan Tel. 92-21-455-5766
Panama Tel. 507-229-2955
Peru Tel. 51-145-29470
Philippines Tel. 632-633-6163

Poland Tel. 48-3912-3173
Portugal Tel. 351-1-424-8660
Puerto Rico Tel. 1-787-750-4300
Russia Tel. 095-258-1048
095-795-0424
Saudi Arabia Tel. 966-1-465-0709
Singapore Tel. 65-843-7691
South Africa Tel. 27-11-313-1400
Spain Tel. 34-3-425-9300

Sweden Tel. 46-8-680-8238
Switzerland Tel. 41-41-259-9090
Taiwan Tel. 886-2-2725-9731
Thailand Tel. 66-2-731-9813
Turkey Tel. 90-216-416-0150
U.A.E. Tel. 971-4-282201
U.K. Tel. 44-118-902-9210
U.S.A. Tel. 1-323-436-3500
Venezuela Tel. 58-2-93-3022



Certificate No. EC95J1010



ISO9001 / BS5750 : PART 1
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