

SPECIFICATIONS





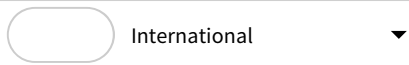
6-track Recorder for Video Production


DR-701D

SPECIFICATIONS

Spec description

| | |
|---|--|
| Recording media | SD card (64MB to 2GB), SDHC card (4GB to 32GB), SDXC card (48GB to 128GB) |
| Recording format | |
| WAV | 44.1k/48k/96k/192k Hz, 16/24-bit |
| BWF | 44.1k/48k/96k/192k Hz, 16/24-bit |
| Number of input channels | |
| 44.1k/48k/96k Hz | 4 maximum |
| 192kHz | 2 maximum |
| Number of recording tracks | |
| 44.1k/48k/96k Hz | 6 maximum |
| 192kHz | 2 maximum |
| Analog audio inputs | <p>*The maximum input level the level that the input knob can be adjusted and a digital full-scale (0dBFS) signal can be input without distorting.</p> <p>*The minimum input level is the level that the input knob can be adjusted and a -20dBFS signal can be input.</p> |
| IN 1, IN 2, IN 3, IN 4 | XLR can provide phantom power |
| Connectors | XLR-3-31 (1:GND, 2:HOT, 3:COLD) 1/4" (6.3mm) standard TRS jacks (tip:HOT, Ring:COLD, Sleeve:GND) |
| Input gain | LOW / MID / HI / HI+ |
| Input impedance | 2k ohms |
| Phantom power | 48V ±4V(10mA/CH), 24V ±4V(10mA/CH) |
|  Maximum input level language | +4dBu International  |

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|---|---|
| Minimum input level | 72dBu |
| MIC input gain | TRIM MAX |
| LOW | +20dB |
| MID | +40dB |
| HI | +52dB |
| HI+ | +64dB |
| Input gain | "LINE" |
| Input impedance | 10k ohms or later |
| Nominal input level | +4dBu |
| Maximum input level | +24dBu |
| EXT IN 1/2 | |
| Connector | 1/8" (3.5mm) stereo mini jack (can provide plug-in power) |
| Input impedance | 10k ohms |
| Maximum input level | +10dBV |
| Minimum input level | 50dBV |
| MIC input gain | TRIM MAX |
| LOW | +3dB |
| MID | +11dB |
| HI | +26dB |
| HI+ | +38dB |
| IN | |
| Connector | 1/8" (3.5mm) stereo mini jack |
| Input impedance | 10k ohms |
| Nominal input level | 10dBV |
| Maximum input level | +6dBV |
| Analog audio outputs | |
|  LINE OUT choose your language. |  International ▼ |

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| Connector | 1/8" (3.5mm) stereo mini jack |
| Output impedance | 200 ohms |
| Nominal output level | 14dBV |
| Maximum output level | +6dBV |
| OUT | |
| Connector | 1/8" (3.5mm) stereo mini jack |
| Output impedance | 200 ohms |
| Nominal output level | 44dBV |
| Maximum output level | +6dBV |
| PHONES | |
| Connector | 1/8" (3.5mm) stereo mini jack |
| Maximum output | 50mW + 50mW |
| Control inputs/outputs | |
| HDMI IN/OUT | |
| Connectors | Type A receptacle |
| USB | |
| Connector | Micro-B |
| Format | USB2.0 HIGH SPEED mass storage class |
| TIMECODE IN | |
| Connector | BNC Connector |
| Signal voltage amplitude | 0.5Vp-p to 5Vp-p |
| Input impedance | 10k ohms |
| Format | SMPTE 12M-1999 compliant |
| REMOTE | |
| Connector | 2.5mm TRS jack |
| Power | 4 AA batteries(Alkaline, NI-MH or lithium), AC adapter(TASCAM PS-P515U, sold separately), External battery pack(TASCAM BP-6AA, sold separately) |
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| Power consumption | 6.5W (maximum) |
| Current consumption (USB bus power) | 1.3A (maximum) |
| Battery operation time (continuous operation) | 2ch WAV, 48kHz, 16-bit Rec, *All times are approximate. *When using phantom power, the operation time might be reduced depending on the mic being used. |
| DR-701D alone | |
| Lithium (Energizer ULTIMATE LITHIUM) | 7-½ hours (Built-in mic used for 3/4ch, Phantom not used, HDMI not connected) 6-½ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI not connected) 3-½ hours (1/2ch used, 3mA phantom used for 2ch, HDMI input connected (1080/60i)) |
| NI-MH batteries (eneloop) | 4 hours (Built-in mic used for 3/4ch, Phantom not used, HDMI not connected) 2-½ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI not connected) 2 hours (1/2ch used, 3mA Phantom used for 2ch, HDMI input connected (1080/60i)) |
| Alkaline batteries (EVOLTA) | 3-¾ hours (Built-in mic used for 3/4ch, Phantom not used, HDMI not connected) 2 hours (1/2ch used, 3mA Phantom used for 2ch, HDMI not connected) 1-½ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI input connected (1080/60i)) |
| DR-701D with BP-6AA | *BP-6AA is using the alkaline batteries (EVOLTA). |
| Lithium batteries (Energizer ULTIMATE LITHIUM) | 12-½ hours (Built-in mic used for 3/4ch, Phantom not used, HDMI not connected) 7-½ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI not connected) 5-½ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI input connected (1080/60i)) |
| NI-MH batteries (eneloop) | 9-½ hours (Built-in mic used for 3/4ch, Phantom not used, HDMI not connected) 7 hours (1/2ch used, 3mA Phantom used for 2ch, HDMI not connected) 4 hours (1/2ch used, 3mA Phantom used for 2ch, HDMI input connected (1080/60i)) |
| Alkaline batteries (EVOLTA) | 9 hours (Built-in mic used for 3/4ch, Phantom not used, HDMI not connected) 6-½ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI not connected) 3-¾ hours (1/2ch used, 3mA Phantom used for 2ch, HDMI input connected (1080/60i)) |
| Dimensions (W×H×D) | 6.7" × 2.3" × 4.5" / 169 × 57.3 × 113.5 mm (with the top adapter attached) |
| Weight | |

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| | 1.44 lbs. / 654g (including batteries) 1.25 lbs. / 567g (excluding batteries) |
| Operating temperature | 32 °F to 104 °F / 0 °C to 40 °C |
| Standard accessories | USB cable, Camera attachment bracket screw hole covers × 6 Owner's Manual (including warranty) |

Audio performance

| | |
|-------------------------------|--|
| Frequency response | 20-20kHz +0.5/ 1dB(LINE IN to LINE OUT, Fs48kHz, JEITA) 20-40kHz +0.5/ 1dB(LINE IN to LINE OUT, Fs96kHz, JEITA) 20-80kHz +0.5/ 5dB(LINE IN to LINE OUT, Fs192kHz, JEITA) |
| Distortion | 0.007% or less(MIC IN to LINE OUT Fs44.1k/48k/96k/192k Hz, JEITA) |
| S/N ratio | 100dB or more (MIC IN to LINE OUT, 10dBu input, 1kHz, Fs44.1k/48k/96k/192k Hz, JEITA) |
| Equivalent input noise | 124dBu or less |

* Based on JEITA CP-2150

Recording Duration

The table below shows the maximum recording time on SD/SDHC/SDXC cards of different capacities for different file formats for recording.

| File format(recording setting) | | 1GB | | |
|--------------------------------|---------|-------|-------|--------|
| | | 8GB | 32GB | 128GB |
| WAV/BWF 16-bit(2ch) | 44.1kHz | 12:35 | 50:23 | 201:35 |
| | 48kHz | 11:34 | 46:17 | 185:13 |
| | 96kHz | 5:47 | 23:08 | 92:36 |
| | 96kHz | 2:53 | 11:34 | 46:18 |
| WAV/BWF 24-bit(2ch) | 44.1kHz | 8:23 | 33:35 | 134:24 |
| | 48kHz | 7:42 | 30:51 | 123:28 |



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|--|-------|------|-------|-------|
| | 96kHz | 3:51 | 15:25 | 61:44 |
| | 96kHz | 1:55 | 7:42 | 30:52 |

The recording times shown above are estimates. They might differ depending on the SD/SDHC/SDXC card in use.

The recording times shown above are not continuous recording times, but rather they are the total possible recording times for the SD/SDHC/SDXC card.


If recorded in mono in WAV files, the maximum recording time will be double the figures above.



For dual and 4-channel recording in WAV/BWF format, the recording times are about half those shown above.

DR-701D HDMI Tested Camera List

Last update: April 23, 2018

| Maker | Model | HDMI Clock Sync | Start/Stop Trigger | HDMI Timecode | NOTE |
|---------------|---------|-----------------|--------------------|---------------|--------------------|
| New Panasonic | DC-GH5S | OK | OK | OK | LTC Connection: OK |

| Maker | Model | HDMI Clock Sync | Start/Stop Trigger | HDMI Timecode | NOTE |
|--|-----------------|-----------------|--------------------|------------------------------|------|
| CANON | EOS 5D Mark III | OK | OK | OK | |
| CANON | EOS 5D Mark IV | OK | OK | OK | |
| CANON | EOS 7D Mark II | OK | OK | OK | |
| CANON | EOS C100 | OK | OK | OK | |
| GoPro | HERO4 | OK | unsupported | unsupported | |
| GoPro  Please choose your language. | HERO3+ | OK | unsupported | unsupported International | ▼ |

| | | | | | |
|---|-----------|----|-------------|-------------|---|
| JVC | GY-LS300 | OK | OK | OK | |
| Nikon | D4S | OK | OK | unsupported | Firmware C:Ver.1.30 or later |
| Nikon | D5 | OK | unsupported | unsupported | |
| Nikon | D500 | OK | unsupported | unsupported | |
| Nikon | D750 | OK | OK | unsupported | Firmware C:Ver.1.10 or later |
| Nikon | D810 | OK | OK | unsupported | Firmware C:Ver.1.10 or later |
| Nikon | D850 | OK | OK | unsupported | |
| Panasonic | AG-DVX200 | OK | OK | OK | |
| Panasonic | AG-UX180 | OK | OK | OK | |
| Panasonic | AG-UX90 | OK | OK | OK | |
| Panasonic | DMC-GH4 | OK | OK | OK | BODY Firmware Ver.2.5 or later |
| Panasonic | DC-GH5 | OK | OK | OK | |
| Panasonic | HC-X1000 | OK | unsupported | OK | |
| SONY | PXW-FS5 | OK | OK | OK | |
| SONY | NEX-FS700 | OK | OK | OK | |
| SONY | NEX-FS100 | OK | unsupported | OK | |
| SONY | a9 | OK | OK | OK | |
| SONY | a7S II | OK | OK | OK | |
| SONY | a7R II | OK | OK | OK | |
| SONY | a7S | OK | OK | OK | |
|  Please choose your language. SONY | a7 II | OK | OK | OK | International  |

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|------|------------|----|----|----|--|
| SONY | DSC-RX10M2 | OK | OK | OK | |
|------|------------|----|----|----|--|

Supported Media

SD card

| Maker | Series | Model | Capacity |
|-----------|---|---------------------------|----------|
| Panasonic | SDHC (UHS-I / Class10) R:90MB/s W:45MB/s | RP-SDUC32GJK | 32GB |
| SanDisk | Extreme Pro SD UHS-II card | SDSDXPK-032G-JNJIP New | 32GB |
| SanDisk | Extreme Pro SD UHS-II card | SDSDXPK-064G-JNJIP New | 64GB |
| SanDisk | Extreme SDXC™ UHS-I card (U3, Class10) | SDSDXVE-064G-JNJIP*1 | 64GB |
| SanDisk | Extreme SDXC™ UHS-I card (U3, Class10) | SDSDXVF-128G-JNJIP*1 | 128GB |
| SanDisk | Extreme® SDHC™ UHS-I Card (U3,Class10) | SDSDXNE-016G-JNJIP*1 | 16GB |
| SanDisk | SanDisk Extreme Pro® SDHC™ UHS-I Memory Card (Class10) | SDSDXPA-016G-J35N | 16GB |
| SanDisk | SanDisk Extreme Pro® SDHC™ UHS-I Memory Card (Class10) | SDSDXPA-032G-J35N*1 | 32GB |
| SanDisk | SanDisk Extreme Pro® SDHC™ UHS-II Memory Card | SDSDXPB-016G-J35 | 16GB |
| SanDisk | SanDisk Extreme Pro® SDHC™ UHS-II Memory Card | SDSDXPB-032G-J35 | 32GB |
| SanDisk | SanDisk Extreme Pro® SDHC™/ SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXPA-016G-JU3 | 16GB |
| SanDisk | SanDisk Extreme Pro® SDHC™/ SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXPA-032G-JU3*1 | 32GB |
| SanDisk | SanDisk Extreme Pro® SDHC™/ SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXPA-064G-JU3 | 64GB |
| SanDisk | SanDisk Extreme Pro® SDHC™/ SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXPA-128G-JU3 | 128GB |
| SanDisk | SanDisk Extreme PLUS SDHC™ UHS-I Memory Card (Class10) | SDSDXS-016G-J35P1 | 16GB |

| Maker | Series | Model | Capacity |
|---------|--|-----------------------------|----------|
| SanDisk | SanDisk Extreme® PLUS SDHC™ UHS-I Memory Card (Class10) | SDSDXS-032G-J35P*1 | 32GB |
| SanDisk | SanDisk Extreme® SDHC™ UHS-I Memory Card (Class10) | SDSDXL-016G-J35*1 | 16GB |
| SanDisk | SanDisk Extreme® SDHC™ UHS-I Memory Card (Class10) | SDSDXL-032G-J35*1 | 32GB |
| SanDisk | SanDisk Extreme® SDHC™/SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXL-016G-JU3*1 | 16GB |
| SanDisk | SanDisk Extreme® SDHC™/SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXL-032G-JU3*1 | 32GB |
| SanDisk | SanDisk Extreme® SDHC™/SDXC™ UHS-I Memory Card (U3, Class10) | SDSDXL-064G-JU3*1 | 64GB |
| SanDisk | SanDisk Ultra® PLUS SDHC™ UHS-I Memory Card(Class10) | SDSDUM-016G-J01*1 | 16GB |
| SanDisk | SanDisk Ultra® PLUS SDHC™ UHS-I Memory Card(Class10) | SDSDUP-008G-J35 | 8GB |
| SONY | SDHC UHS-I Memory Card | SF-8UY2 | 8 |
| TASCAM | TSQD | TSQD-16880A*1 | 16GB |
| TASCAM | TSQD | TSQD-32A <small>New</small> | 32GB |
| TOSHIBA | EXCERIA PRO™ SDHC/SDXC Memory Card SDXU-B Series | SDXU-B064G | 64GB |
| TOSHIBA | EXCERIA™ SDHC/SDXC Memory Card SD-FU Series | SD-FU008G | 8GB |
| TOSHIBA | EXCERIA™ SDHC/SDXC Memory Card SD-FU Series | SD-FU016G | 16GB |



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