



HDCA-702

MPEG TS Adaptor

Preliminary

An Affordable Solution for MPEG Encoding and Direct Transmission over ASI

The HDCA-702 MPEG TS Adaptor is a unique new product which enhances workflow flexibility with various interfaces in an ultra-compact design. It provides real-time encoding of HD-SDI input signals into an MPEG Transport Stream (TS) for output via a DVB-ASI connector.

One of this adaptor's applications is field news gathering, using a field pickup unit and satellite transmission. The HDCA-702 encodes camcorder output signals to MPEG TS and outputs this stream via its DVB-ASI connector at the same time the camcorder is recording. It is also possible to encode while the camcorder plays back recorded material.

For encoding, video formats and data rates are selected according to the bandwidth available for transmission. Long-distance transmission (up to 150 meters) is possible via a BNC cable*.

The HDCA-702 can also be used in a standalone configuration and can be connected to a device via an HD-SDI interface.

This adaptor also supports output of HDV™ compatible MPEG streams from the i.LINK®** connector to use with HDV compatible HDD units and nonlinear editing systems.

* The BNC cable must be compliant with DVB-ASI.

** i.LINK is a Sony trademark used only to designate that a product is equipped with an IEEE 1394 connector. Not all products with an i.LINK connector may communicate with each other. Please refer to the documentation that comes with any device having an i.LINK connector for information on compatibility, operating conditions and proper connection.

Features

Supported formats

- Encode to MPEG TS in MPEG-2 4:2:0 MP@HL or MPEG-2 MP@H-14 (HDV compatible)
- Video system: 1080/59.94i, 1080/50i, 720/59.94P or 720/50P
- Frame pixels (output): 1440 x 1080 (1080 mode) or 1280 x 720 (720 mode)
- Data rates: From 17.5 Mb/s to 43 Mb/s
- Number of GOP: 15 frames (60i)/12 frames (50i) for 1080 mode and 12 frames for 720 mode
- Audio: 48 kHz, 384 kb/s, two channels of MPEG-1 Layer 2 or four channels of MPEG-2 Layer 2 selectable

Output from DVB-ASI (BNC) or i.LINK (6-pin) interface

Cable-less docking on the rear of the XDCAM® PDW-700 camcorder via 50-pin connection

Can be docked on a variety of Sony camcorders with HD-SDI output*:

PDW-F355, HDW-F900R/790/790P/750/730S**

Equipped with HD-SDI input: Compatible with a variety of devices which have HD-SDI outputs

Transmission distances: Up to 150 meters*** for DVB-ASI output or up to 4 meters for i.LINK output

Dimensions

- Standalone: 5 3/8 x 6 3/4 x 2 3/4 inches (135 x 177 x 68 mm)
- Docked on PDW-700: 5 3/8 x 6 3/4 x 1 3/4 inches (135 x 175 x 43 mm)

Weight: Approx. 1 lb 5 oz (0.6 kg)

Synchronized recording with HDD devices connected to the PDW-700 camcorder or HDCAM™ camcorders via the i.LINK interface

* Camcorder output signals must be input to HDCA-702 through HD-SDI cable connection.

** For more details on dockable camcorders, please contact your nearest Sony office.

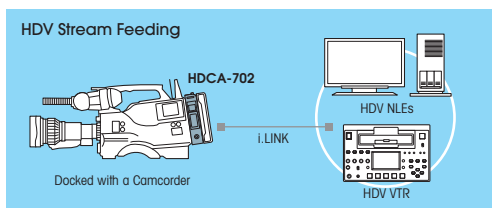
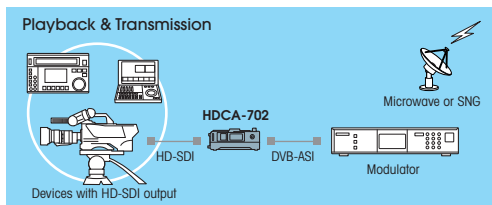
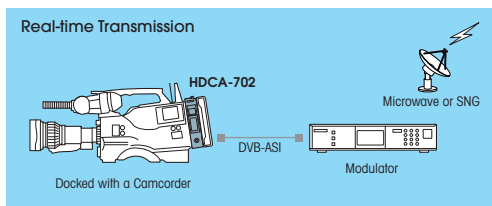
*** The BNC cable must be compliant with DVB-ASI.



HDCA-702 with PDW-700



HDCA-702 Applications



HDCA-702 Specifications

| HDCA-702 | | | |
|-----------------------|--|--|--|
| Power requirements | DC 12 V +5.0 V/-1.0 V | | |
| Power consumption | Approx. 7 W | | |
| Operating temperature | +23 to +104 °F (-5 to 40 °C) | | |
| Storage temperature | -4 to +140 °F (-20 to +60 °C) | | |
| Humidity | 10 to 90% (relative humidity) | | |
| Weight | Approx. 1 lb 5 oz (0.6 kg) | | |
| Dimensions | Standalone | 5 3/8 x 6 3/4 x 2 3/4 inches (135 x 177 x 68 mm) | |
| | Docked on PDW-700 | 5 3/8 x 6 3/4 x 1 3/4 inches (135 x 177 x 43 mm) | |
| Stream format | Video | Codec | DVB-ASI MPEG-2 MP@HL MPEG-2 MP@H14 |
| | | i.LINK | MPEG-2 MP@H14 |
| | | Frame pixels and frequency | 1440 x 1080: 59.94i, 50i 1280 x 720: 59.94P 50P |
| | | Bit rate | Selectable: 17.5 Mb/s to 43 Mb/s (0.01Mb/s step) |
| Audio | MPEG-1 Layer 2, 2 ch, 48 kHz, 384 kb/s | | |
| | MPEG-2 Layer 2, 4 ch, 48 kHz, 384 kb/s | | |
| Signal inputs | HD-SDI Input | BNC x 1 | |
| Signal outputs | Loop-through | BNC x 1 | |
| | DVB-ASI | BNC x 1 | |
| | i.LINK | 6-pin, IEEE 1394 | |
| Other | DC Input | XLR 4-pin x 1, 12 V | |
| inputs/outputs | Camcorder connector | 50-pin (for docking on PDW-700) | |
| Supplied accessories | Operation manual (x 1), Holder (x 1), Brackets (x 1 set) | | |

SONY

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