



HDCA-702

MPEG TS Adaptor

An Affordable Solution for MPEG Encoding and Direct Transmission over ASI

The HDCA-702 MPEG TS Adaptor is a unique new device 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

- Encode to MPEG TS in MPEG-2 4:2:0 MP@HL or MPEG-2 MP@H-14 (HDV compatible)
- 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*1:
PDW-700/F355, HDW-F900R/790/790P/750/730S/650series*2
- Equipped with HD-SDI input: Compatible with a variety of devices which have HD-SDI outputs
- Transmission distances: Up to 150 meters*3 for DVB-ASI output or up to 4 meters for i.LINK output
- Synchronized recording with HDD devices connected to camcorders via i.LINK interface:
applicable camcorders: PDW-700*4, HDW-F900R/790/790P/750/730S/650series

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

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

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

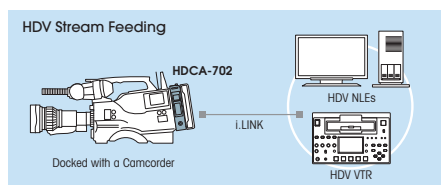
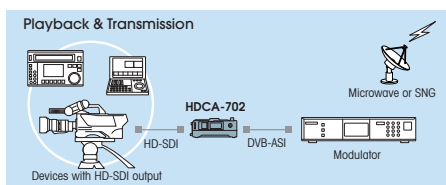
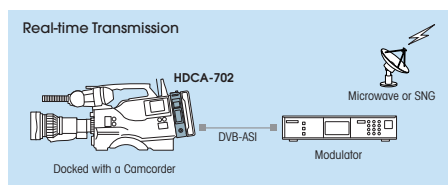
*4: HD-SDI cable connection only. 50-pin interface will support this function by a software upgrade planned to be available in summer 2009.



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. 6 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 9 oz (0.7 kg)						
Dimensions	Standalone	5 3/4 x 7 3/8 x 3 3/8 inches (143 x 185 x 83.5 mm)					
	Docked on PDW-700	5 3/4 x 7 3/8 x 3 inches (143 x 185 x 76 mm)					
Stream format	Video	Codec	DVB-ASI	MPEG-2 MP@HL			
			i.LINK	MPEG-2 MP@H-14			
		Frame pixels, frequency, bitrate and number of GOP	DVB-ASI	1920 x 1080	59.94i	35.00 Mb/s to 43.25 Mb/s	15 frames
				50i	17.25 Mb/s to 43.25 Mb/s		12 frames
			1440 x 1080	59.94i		25 Mb/s (fixed)	15 frames
			1280 x 720	59.94P 50P	12 frames		
		i.LINK (HDV)	1440 x 1080	59.94i		15 frames	
				50i	12 frames		
	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, IEEE1394					
Other inputs/outputs	DC Input	XLR 4-pin x 1, 12 V					
	Camcorder connector	50-pin (for docking on PDW-700)					
Supplied accessories	Operation manual (x 1), Holder (x 1), Fixing bracket (x 1 set)						
Optional accessories	AC-DN10/DN2B: AC Adaptor*1 BP-GL95/GL65/L80S/L60S: Lithium-ion Battery Pack*1						

*1: When docked on a camcorder, keep the total power consumption of the camcorder and peripherals (excluding the HDCA-702) under 100 W. Please contact your nearest Sony office for more details.

SONY

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