



CODICO® E-1720/E-1710 DSNG Encoder

General

Scopus E-1720/1710 combines encoding, modulation and upconversion in a rugged single rack-mounted unit. It is an ideal compact platform for the uncompromising requirements of the DSNG mobile news market: up-link vans, SUV's and flyaway packages.

The 1720/1710 provides broadcast-quality 70/140 IF and 950-2150 MHz L-Band outputs, as well as separate L-Band monitoring output. It supports QPSK/8PSK/16QAM satellite modulation schemes and combines best picture quality with steady, low power consumption.

Standard E-1720/1710 features include: analog and digital A/V inputs, pre-programmed set-ups, SW upgrade via flash card, encoder cascading and custom DSNG menu system. 10 MHz reference clock and DC power supply for BUC may be delivered "on stream" or via external connectors.

The CODICO® E-1720/1710 includes SNMP remote management and control, ultra low delay, built-in DVB scrambling with complete BISS implementation and strict adherence to DVB-S and DVB-DSNG standards.

Features and Options

- User-friendly control with a specifically designed menu for DSNG operation
- DVB Scrambling: BISS Mode-1, BISS-E (Option)
- 10 Pre-programmed set-ups
- "Quick Copy" configuration download via compact flash card
- Ultra low-delay mode
- 10 MHz reference clock (E-1720 only)
- 24v 500 mA BUC power (E-1720 only)
- Modulator and up-converter controlled from front panel
- Up to 4 audio pairs (option)
- Dolby digital (AC-3) 2.0 Encoding
- Composite and SDI inputs
- High speed data processing
- -48V power supply
- Dolby digital (AC-3) Pass-Through

Compact: 1RU

Integrated simultaneous L-Band and IF output

E-1710 unit with IF output only

Encoder cascading

4:2:2 / 4:2:0 encoding profiles

Ultra low-delay mode

QPSK / 8PSK / 16QAM

L-band monitoring

BISS mode 1 and BISS-E (DSNG-CA) support

Compact flash for re-configuration

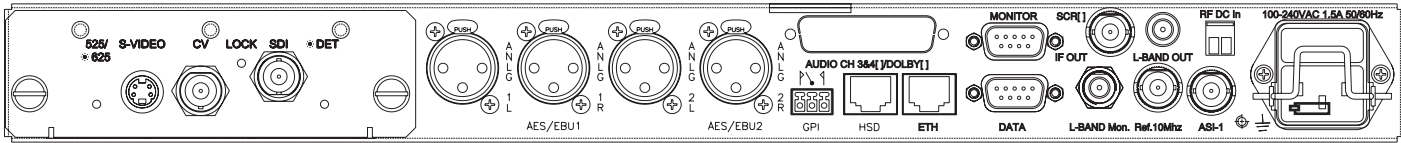
10 pre-sets configurations

Internal and external 10Mhz clock REF

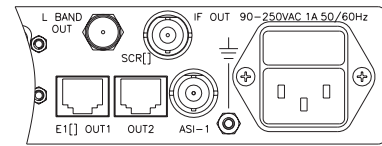
DC power for BUC

Ready for DVB-S2

E-1720 outputs



E-1710 outputs



Inputs	Video <ul style="list-style-type: none"> • Video formats: NTSC/PAL • Digital Input: SDI (optional) • Analog Inputs: Composite, • A/D resolution: 10-bit Video resolution <ul style="list-style-type: none"> • Vertical: PAL-576, 288; NTSC-480, 240 • Horizontal: 720, 704, 640, 544, 528, 480, 368, 352 • Aspect Ratio: 16:9,4:3 VBI processing <ul style="list-style-type: none"> • Teletext (WST 625) • CC, WSS, VITC, VPS • SMC (option on analog input) 	Audio <ul style="list-style-type: none"> • Up to 2 Stereo channels (4 Mono): • Analog, AES/EBU, Embedded • Option for 4 stereo (8 Mono) • Encoding Rate: up to 384 Kbps • Sampling Rates: 32K,44.1K,48K • Dolby Digital (AC-3) Pass-through (optional) • Data Synchronous RS-422: up to 20 Mbps DC Input <ul style="list-style-type: none"> • External DC input for BUC 	Scopus Video Networks LTD. Tel: +972 3 9007777 Fax: +972 3 9007888 www.scopus.net info@scopus.net Americas Tel: +1 609 9878090 Fax: +1 609 987 8095 www.scopusamericas.com info@scopusamericas.com Argentina Tel: +54 11 5235 4565 www.scopusamericas.com info@scopusamericas.com China Tel: +86 10 65880035/6/7 Fax: +86 10 65880039 www.scopus.cn info@scopus.cn Brazil Tel: +55 12 3923 9208 www.scopusbrasil.com.br scopusbrasil@scopusbrasil.com.br Germany Tel: +49 69 9500 2255 Fax: +49 69 9500 2266 www.scopus-europe.de info@scopus-europe.de India Tel: +91 22 5593 9291 Fax: +91 22 5593 9299 info@scopus.net Japan Tel: +81 3 5778 7073 Fax: +81 3 5717 6092 info@scopus.net Mexico Tel: +52 55 1952 1396 Fax: +52 55 5868 5329 info@scopus.net Russia Tel: +7 095 789 3580 Fax: +7 095 789 3579 www.scopus.ru info@scopus.ru UK Tel: +44 208 610 6038 Fax: +44 208 610 6818 info@scopus.net	
Pre-Processing	<ul style="list-style-type: none"> • Analog TBC, Frame Synchronizer • Automatic frame re-sizing 			
Processing	Video encoding formats <ul style="list-style-type: none"> • MPEG-2 4:2:0 MP@ML • MPEG-2 4:2:2 MP@ML • Variable GOP: I, P and B Frames processing 	<ul style="list-style-type: none"> • Ultra low-delay mode (4:2:0 / 4:2:2) • Built-in multiplexer for encoder cascading • Audio encoding format: MPEG I, layer II, CD Quality • Dolby Digital (AC-3) 2.0 Encoding (optional) 		
Control and Monitoring	Local <ul style="list-style-type: none"> • 6 button keys and 24 character LCD • RS-232 - Front panel control over variety of modulation and upconverter parameters - 10 pre-programmed set-ups - Configurable Hot Alarm rely (GPI) 	Remote <ul style="list-style-type: none"> • SNMP SW upgrade <ul style="list-style-type: none"> • Compact Flash Disk • Ethernet (TCP/IP) • RS-232 (CODICO E-1710 only) 		
Output	DVB interface <ul style="list-style-type: none"> • 1x ASI • Electrical interface: 2 x RS-422 Output Rate <ul style="list-style-type: none"> • 1-52Mbps DVB scrambling (optional) <ul style="list-style-type: none"> • BISS mode 1, BISS-E IF Output <ul style="list-style-type: none"> • Built-in QPSK modulator, 1-28 Msym/sec • DVB compliant (EN 300421) 	<ul style="list-style-type: none"> • 8PSK 3/4 FEC (optional) • 16 QAM 3/4 FEC (optional) • Roll-off 15%-35% • Frequency range: 70±18 MHz L-Band Output (1720 only) <ul style="list-style-type: none"> • Frequency: 950 to 2150 MHz (1KHz steps) • Output Power: -20 to 5dBm (1 dB steps) • Internal DC for BUC: up to 24VDC 500mA • 10MHz Reference clock (in-band and external) • Spurious level:- 45dB • L-band monitoring Frq. 1.14 GHz @-40 dBm 		
Power and Physical	Dimensions <ul style="list-style-type: none"> • 1RU (19" rack) • 4.4 x 48.3 x 53cm (1.75"x 19"x 21") • Weight: 5Kg /10lbs 	Power <ul style="list-style-type: none"> • Voltage 90-260V, -48 DC (optional) • Power consumption: 100W Max (E-1710/1720) 		
Environment	Temperature <ul style="list-style-type: none"> • Operating 0-50 °C • Storage: -20-70 °C 	Humidity <ul style="list-style-type: none"> • 85% on-condensing 		
Compliance	<ul style="list-style-type: none"> • CE marked in accordance with EN 500821-1 and EN 55022, Class B, FCC 			
Safety	<ul style="list-style-type: none"> • In accordance with EN 60950 			

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