

DCH-3000EC-10/30/40

Professional Standard Definition MPEG-2 Encoder and Multiplexer

Headend System



DCH-3000EC is a single program MPEG-2 real-time encoder with an internal re-multiplexer which accepts the SPTS generated by itself and an external DVB-ASI TS as inputs. This flexible arrangement saves the costly external re-MUX and could be adopted by many applications with its high quality, stable video and audio compression. The re-multiplexed TS output is available as ASI output and Streaming IP (option). User can take full control and management via front panel or HDMS the network management software on PC.

Model

DCH-3000EC-10 (simple AV-to-ASI encoder)

DCH-3000EC-30 (with re-mux function)

DCH-3000EC-40 (with re-mux and IP streaming output function)

Features

- S-Video, SDI and Composite PAL/NTSC/Secam video input
- Balance audio input
- MPEG-2 MP@ML compliant
- Video encoding 1.5Mbps-10Mbps
- MPEG-1 Layer1 and Layer2 audio encoding
- Configurable GOP
- Internal two-way Re-Multiplexer
- Support PAT, PMT and SDT generation
- Support NIT insertion
- SNMP based remote control system
- SDI input embedded digital audio
- LCD display and user friendly operation menu
- Supports up to 6 multicast IP streams (option 40)

* Specifications are subject to change without notice *

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Specifications

Video input and compression

Input	composite video, S-Video, SDI (embedded audio)
Video format	PAL, NTSC, SECAM
Compression format	MPEG-2 MP@ML (ISO/IEC13818-2)
Video encoding Bit rate	1.5Mbps-10Mbps
Resolutio	Full D1, Half D1, SIF, QSIF

Audio input and compression

Input interface	600Ω, balance XRL female
SDI embedded audio	One pair stereo or dual sound, Group 1 to 4 selectable
Compression format	MPEG-1 Layer I, II
Sampling rate	32K, 44.1K, 48K
Compression bitrate	32, 64, 128, 192, 256, 384Kbps

MPEG-2 TS Re-multiplexer

ASI Input

Connector	BNC connector, 75Ω
Input data rate	100Mb/s
Data mode	Byte mode
Packet length	188/204 Bytes
Signal level	800mV
TS input	SPTS/MPTS

ASI Output

Connector	BNC connector, 75Ω
Output data rate	100Mb/s
Data mode	Byte mode
Packet length	188/204 Bytes
Signal level	800mV
Output Bit rate	1.5Mbps~67Mbps adjustable
PSI/SI	Auto/manual Automatic PAT, PMT, SDT generation, SI insertion

IP output

Interface	RJ45, 10/100M
Maximum output bit rate	70Mbit/S
Transport protocol	UDP/RTP, up to 6 multicast /unicast
Multicast output protocol	IGMPv2

Rear panel

CVBS In	1× BNC connector
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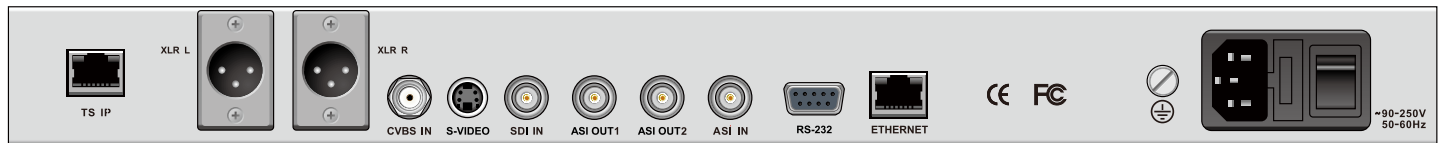
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Specifications

XLR In	2× XLR balanced
S-Video In	1× S-video connector
SDI In	1× BNC connector
ASI I/O	1×input; 2×output
Power supply	AC 90~260V, 50~60Hz
RS-232	D-Sub 9-pin interface
Ethernet	RJ45, 10M/100M, for management and software upgrade
TS/IP (optional for -40)	10/100Mbps

General

Operating Temperature	0~45℃
Storage Temperatur	-20~70℃
Humidit	<85%
Dimensions	44mm×483mm×240mm
Net weight	3Kg



Model List

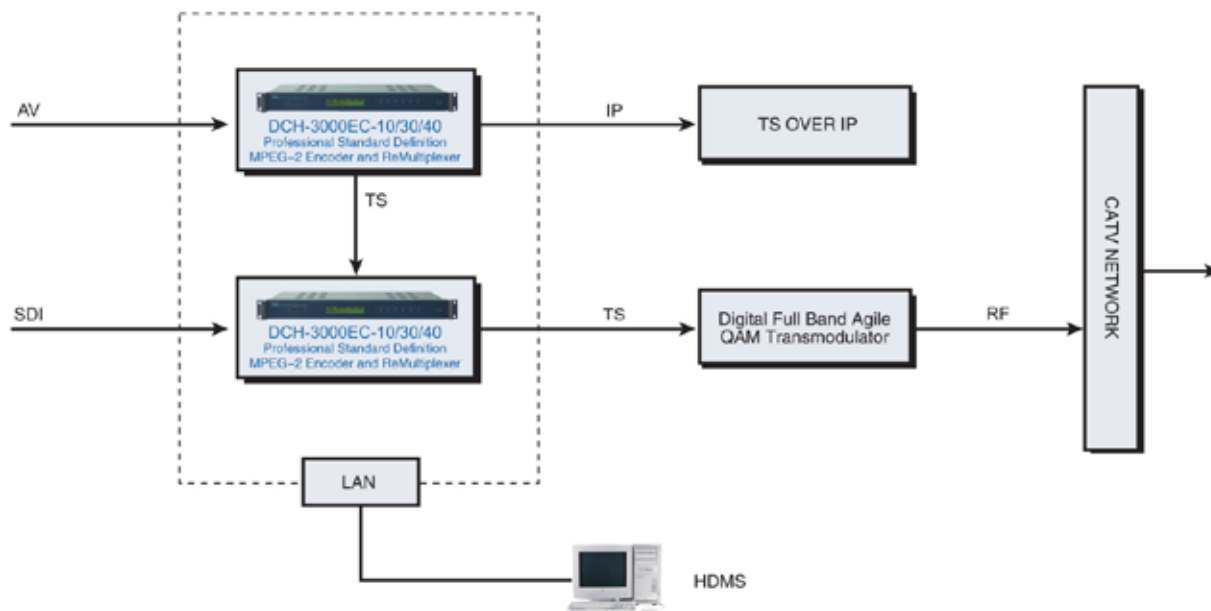
Function	DCH-3000EC-10	DCH-3000EC-30	DCH-3000EC-40
AV/S video	•	•	•
ASI input		•	•
SDI input		•	•
Re-mux		•	•
IP Output			•
ASI input	•	•	•
Network control	•	•	•
• Standard function			

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DCH-3000EC-10/30/40

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Specifications



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