WEB GUI	ASI+IP Inputs	MPEG2 H.264	SD HD	HDMI	HD-SDI

CableWorld

MULTISTANDARD DECODER

New generation decoder created for decoding HD and SD resolution TV and radio programs. It is also capable for processing compressed MPEG-2 and H.264 data streams.

The efficiency of digital video and audio transmission is basically depending on the used compression methods, therefore continuous development of these processes is expected. Currently for digital transmission the MPEG-2 and H.264 (MPEG-4 Part 10 AVC) procedures are widely used. CableWorld's new generation decoder family automatically detects and decodes streams of both standards.

Nowadays in addition to the increasing number of programs, the improved picture and sound quality is a fundamental requirement as well. Therefore, the providers' offer broadens with more HD quality programs. According to this tendency our decoders are also capable of processing high-resolution images.

The input streams may come over IP or ASI network. According to the needs the various versions of decoders can also be ordered with CI (Common Interface) units.

The decoders possess a variety of digital (HDMI, HD-SDI) and analog (YPrPb, CVBS) outputs. The HD programs are simultaneously available in SD format (optionally in PAL, in SECAM or in NTSC).
The selection of the wished program to be decoded can be done according to the Service ID or to the video and audio PID.

Fields of application:

✔ Signal source for digital studios' SDI input processing equipment

✔ Driver for monitoring systems' display

✔ Measuring and control instruments for IPTV headends

✔ Web-based interface
✔ Separate management port
✔ ASI or IP Input
✔ Video decoder: MPEG-2 and H.264
✔ HD resolution (max. 1920x1080i)
✔ Digital outputs: HDMI, HD-SDI

✔ Analogue video outputs: YPrPb, CVBS
✔ Audio decoder: MPEG-1 L2, AAC-LC (opt.)
✔ Audio outputs: L, R and SPDIF
✔ HD and SD output is available simultaneously
✔ ARM 1176JZF-S 324 MHz CPU
✔ Long lifespan

MULTISTANDARD DECODER

Technical data

IP input

TS input	10-, 100- and 1000Base-T
Protocol	IPv4, ARP, IGMP, ICMP-Ping, UDP unicast / multicast
Connector type	RJ-45
Optical interface	receptacle for SFP (Mini-GBIC) module

ASI input

Standard and protocol	EN 50083-9 (DVB-TM 1449 Rec.1) loop-through input
Impedance	75 ohm
Input data rate	max. 100 Mbit/s each decoder

Management Port

TS input	10-, 100Base-T
Protocol	IPv4, ARP, ICMP-Ping, TCP, UDP
Connector type	RJ-45

Video decoder

System	ISO/IEC 13818-2 (MP@HL) ISO/IEC 14496 H.264/AVC Level 4.1
Functions	independent horizontal and vertical up- and down-scaling
	TXT, WSS, VPS insertion
	TXT and DVB subtitling
Analogue outputs	CVBS (PAL, SECAM, NTSC) YPrPb, S-Video
Digital outputs	HDMI 1.2 SDI (SMPTE 259M) HD-SDI (SMPTE 292M)

Audio decoder

System	ISO/IEC 11172-3 (MPEG-1 L1, L2) MPEG-2 AAC LC (optional) MPEG-4 AAC LC (optional)
Sampling frequency	8 ... 96 kHz (depending on the system)
Bit rate	8... 448 kbit/s (depending on the system)
Analogue outputs	L, R max. 8 channels (optional)

Audio output level	0 dBm
Digital output	SPDIF (75 ohm coaxial)

General data

Mass	approx. 3.5 kg
Dimension Width × Height × Depth	19" × 1 HU 483 × 43,6 × 473 mm
Service period	continuous
Power requirement	90 ... 264 V, 47 ... 440 Hz
Power consumption	max. 35 VA
Temperature range for operation	+5 ... +40^{0}C
Relative humidity	max. 80 %
Storage temperature range	-25 ... +45^{0}C
Relative humidity	max. 95 %, non-condensing

Programming of the device

Programming and control	over separated management port, in web environment, optimized to the Firefox browser
Default IP address	192.168.10.10

The decoder provides a variety of amenities for the user:

• The audio and subtitle language selection is according to the ISO639-2 language code (ie: eng).

• The image size and position can be adjusted optionally. It is also possible within the chosen dimension of zooming in or zooming out into the picture.

• By pressing a button, up. 9 programs' scaled images from the input transport stream can be displayed on the screen, which are continuously updated.

• It is also possible to use a pre-designed logo which appears for a few seconds after switching on, but can be disabled on demand.

Ordering data:

CW-4671	**Multistandard Decoder**	
	MPEG-2/H.264, SD/HD decoder with ASI and IP inputs, HDMI, SDI and CVBS outputs, FTA version	
CW-4672	**Multistandard Decoder Duo**	
	Two independent MPEG-2/H.264, SD/HD decoder with ASI and IP input , HDMI, SDI and CVBS outputs, FTA ver.	
CW-4673	**Multistandard Decoder**	
	MPEG-2/H.264, SD/HD decoder with ASI and IP inputs, HDMI, SDI and CVBS outputs, CI version	
CW-4674	**Multistandard Decoder Duo**	
	Two independent MPEG-2/H.264, SD/HD decoder with ASI and IP input , HDMI, SDI and CVBS outputs, CI ver.	