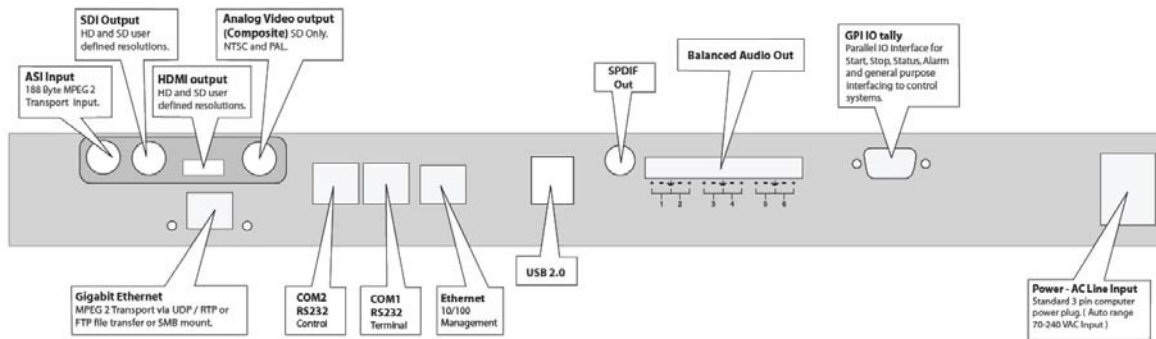




Soloist-HD Pro Broadcast Decoder

The Soloist-HD Pro is a broadcast quality High Definition MPEG 2 and AVC decoder. Multi-CODEC decoding has never been easier or more reliable. The Soloist-HD Pro supports GIGE and Hard Drive Transport Stream decoding. Video outputs include D1 (composite), HDMI with HDCP and HD-SDI with embedded audio. Decode MPEG 2 SD 422, HD 420, AVC SD and HD video. Audio decoding includes a single stereo channel of Dolby Digital, Dolby 5.1*, MPEG 1 Layer 2 and AAC-LC audio. Output broadcast quality video with embedded stereo audio on the HD-SDI interface and to consumer monitors with the HDMI interface. Composite D1 video and balanced analog audio are also supported for legacy NTSC or PAL environments. The decoder can down convert HD 1080i or 720 P to Composite or SDI.



Benefits

- **Decode MPEG-2 and AVC High Definition:** Step up to stunning high definition decoding of AVC/H.264 and MPEG-2.
- **Automatic Fallback with Signal Loss:** The Soloist-HD Pro will fall back to hard-drive playout if a signal is lost.
- **GIGE Decode:** Use the included GIGE interface to decode a live transport stream.
- **High and Standard Definition:** Decode both SD and HD content with the Soloist-HD Pro.
- **Up and Down Conversion:** Scale video up or down from NTSC to 1080i60.
- **Sound Professional:** Decode stereo MPEG 1 Layer 2, Dolby Digital and decode or down-mix Dolby 5.1.
- **Hard Drive Decode:** The Soloist-HD Pro includes a built in hard drive with a command interface and scheduler that can play a list or scheduled transport streams.

Soloist-HD Pro Broadcast Decoder

Specifications

Transport

ISO13818-1 188 Byte Transport Stream
Sources: GIGE, Hard Drive

Resolutions

Standard Definition (SD): NTSC, PAL
High Definition (HD): 720P 60/50, 1080i 60/50
Decode Up and Down conversion SD to and from HD
Video Aspect Format: Auto, 4x3 or 16x9

Video Interfaces

SDI, SMPTE 259M (SD)
HDSDI, SMPTE 292M (HD)
HDMI with HDCP

Standard Definition (SD) Decode

MPEG 2 SD: MP@ML up to 15 Mbs
MPEG 2 SD: 422P@ML up to 50 Mbs
AVC/H.264: MP@L3.1 up to 10 Mbs
No support for hierarchical B-frames

High Definition (HD) Decode

MPEG 2 HD: MP@HL up to 60 Mbs
AVC/H.264 HD: MP@L4.1 and HP@L4.1 up to 20 Mbs
No support for hierarchical B-frames

Audio Interfaces

SDI Embedded stereo audio pair per SMPTE 272M (SD) or SMPTE 299M (HD) based on target video resolution
Analog audio on balanced stereo 5 Pin RST
HDMI
Audio Outputs: simultaneous embedding on HDSDI, HDMI and Analog balanced output

Audio Decode

Dolby Digital AC-3: Bit rates up to 640kbps. Sample rates of 32, 44.1 and 48KHz. Multi-channel 5.1 downmix.

MPEG 1 and MPEG 2 Layer I, II and III (MP3) 2.0:
Bit rates up to 448kbps (Layer I), 384kbps (Layer II) or 320kbps (Layer III).
Sample rates of 16, 22.05, 24, 32, 44.1 and 48KHz.
Single channel, dual channel, joint stereo and stereo modes.

AAC-LC MPEG-2 and MPEG-4:

Bit rates up to 384kbps.
Sample rates of 7.35, 8, 11.025, 12, 16, 22.05, 24, 32, 44.1 and 48KHz.

Host Platform

Storage: 160GB hard drive
Embedded Linux real time operating system
Power: 70-240 VAC 50-60Hz and 65 Watts (20 Watts typical)
Size: 1RU rack mount chassis.
19in. wide, 1.75in. high, 10in. deep
Weight: 8 lbs (3.6 Kg)
Environmental:
Active cooling (Fans)
0 to 90 Degrees Fahrenheit
Less than 70% RH
Non-Condensing

Communications and Control

Ethernet 10/100
GIGE
Ethernet Protocols:
HTTP, Telnet, FTP, UDP/RTP, NTP
Serial Communications:
2-RS232 (38400-115,200K, 8, 1 N)

Front Panel

Keypad: Mode, Select, Enter, Escape, Up, Down, Left, Right
Blue Translucent LCD: (20 characters by 2 rows)
Host Status LEDs: Power, Alarm, Link, Busy, Storage.
Status LEDs: Play, Multicast, Video, Audio, Resolution, Alarm