



IRD 3030/3035/3040/3045

Integrated Receiver Decoder



Sencore's line of professional Integrated Receiver Decoders is a set of cost-effective solutions for the distribution of video services. The new IRDs are designed for SD applications and offer an upgrade path to HD, allowing operators to leverage their existing SD infrastructures with a solution in place for HD migration. The series is fully compliant with DVB and ATSC standards.

The IRD line offers today's video professional a satellite or MPEGoIP inputs with a standard ASI input. The IRD provides high quality MPEG2 and H.264 decoding of HD and SD video formats with composite or SDI outputs. The SDI output can be enabled to support HD outputs as well.

Key Features

- Commonly used inputs include DVB-S2, MPEGoIP and ASI, for a truly economical solution for SD decoding with an easy HD migration path
- MPEG2/H.264 video decoding including two audio services and supported downmix/pass-through for a variety of supported common audio types
- High quality SDI digital video and analog video outputs
- Receive and down-convert HD video to and SD output for broadcast or monitoring
- Use the simultaneous ASI output to facilitate transport stream analysis or as an input directly to a multiplexer
- Compatible with popular conditional access systems including DVB-CI and BISS
- Supports common metadata in VANC including closed captions and teletext
- Supports DVB-subtitles

Applications

- Decoding of MPEG2/H.264 video carried on satellite and IP networks for re-encode/retransmission applications
- Decoding for confidence monitoring
- Hospitality network operations
- Decryption for turnaround applications

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Specifications

AVAILABLE FORMATS

MODEL	INPUT	OUTPUT
IRD-3030	DVB-S2	Composite
IRD-3035	DVB-S2	SDI
IRD-3040	IP	Composite
IRD-3045	IP	SDI

INPUTS

ASI:	(2) BNC up to 160Mb/s
DVB S/S2/DSNG:	(4) F- Type (A/B) QPSK, 16QAM, 8PSK, 16APSK, VCM,ACM,ISI filtering (advanced/license - able)
LNB Power:	13,18VDC, 22KHz tone 1-45Msym/s 950-2150 MHz
MPEGoIP:	(2)10/100/1000 Base-T, RJ45 Encapsulation type- UDP and RTP Unicast/Multicast (IGMPv3) ProMPEG CoP3r2 FEC/SMPTE2022
Conditional Access:	BISS 1/E DVB-CI- (2) Slots,
Control:	Front Panel Web Interface-IE7 and up, Firefox3.0 and up SNMPV2 with traps

DECODER

Video:	MPEG2- MP@ML (4:2:0) MPEG2- HP@ML (4:2:0) H.264 - MP@L3.0 PAL, NTSC
Max TS Bitrate:	160Mb/s
Display Modes:	Letterbox, cropped, anamorphic AFD(SMPTE2016)
Audio:	(2) audio pair (decode, embed and pass-through both compressed and decoded formats) AES MPEG2 MPEG1 AC-3 DD+ DolbyE Linear PCM HE-AAC v2 ISO/IEC 14496-3:2005/ Amd.2(Including HE-AAC 7.1, LOAS,ADTS) PCM Downmix (selectable): L/R (Stereo), Lt/Rt (Surround), Mono1, Mono2

OUTPUTS

SDI:	(2 BNC) ITU-BT.601/SMPTE 259M Embedded Audio Format: SMPTE272M Number of Embedded Audio Channel 4 (2 complete audio groups) Embedded Audio Types- MPEG-2,-1, AC3,DD+, DolbyE, PCM, HE-AAC Embedded CC- EIA-708B Letterbox, cropped, anamorphic Other Embedded Data Types: Teletext, WSS,VPS (EN301775 embedded per SMPTE2031) VITC,AMOL I-II,TV Guide (SCTE127 embedded per SMPTE2031) AFD (SMPTE2016) VBI Insertion- Teletext, WSS,VPS,VITC,AMOL I-II,TV Guide, V-Chip
Pairs:	(1) BNC- NTSC/PAL Overlay closed caption selectable Line21 CC Insertion-EIA-608B VBI Insertion- Teletext, WSS,VPS,VITC,AMOL I-II,TV Guide, V-Chip
Display Modes:	(2) BNC (selectable) (2) Stereo pair (balanced,terminal connector) AES MPEG2 MPEG-1 AC-3 DD+ DolbyE Linear PCM HE-AAC v2 ISO/IEC 14496-3:2005/ Amd.2(Including HE-AAC 7.1, LOAS,ADTS) PCM Downmix (selectable): L/R (Stereo), Lt/Rt (Surround), Mono1, Mono2
Composite:	(1) BNC- NTSC/PAL Overlay closed caption selectable Line21 CC Insertion-EIA-608B VBI Insertion- Teletext, WSS,VPS,VITC,AMOL I-II,TV Guide, V-Chip
Audio:	(2) BNC (selectable) (2) Stereo pair (balanced,terminal connector) AES MPEG2 MPEG-1 AC-3 DD+ DolbyE Linear PCM HE-AAC v2 ISO/IEC 14496-3:2005/ Amd.2(Including HE-AAC 7.1, LOAS,ADTS) PCM Downmix (selectable): L/R (Stereo), Lt/Rt (Surround), Mono1, Mono2
ASI:	(1) BNC up to 160 Mb/s
MPEGoIP:	(2)10/100/1000 Base-T, RJ45 Encapsulation type- UDP and RTP Unicast/Multicast (IGMPv3)