



MPEG-2 / DVB (4:2:0) PROFESSIONAL SINGLE CHANNEL IRD

IRD_I220_OPSK_DEM_MPEG2_DEC (03-2003)



IRD I220



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The Integrated Receiver and Decoder (IRD) is the endpoint in an MPEG-2 network.

The IRD demodulates the input signal, and translates it to baseband signals, picks out the related components from the MPEG-2 transport stream, and outputs the decoded A/V signal.

This signal is most commonly used for feeding analogue and digital networks, contribution of programme content or confidence monitoring.

The receiver is a new generation of receiver intended to meet the requirements of today's competitive broadcast environment.

This product is representing a new generation of successful and proven technology.

It is optimized to meet the requirements of broadcasters and cable head-ends worldwide, supporting the PAL, NTSC and SECAM video standards.

When adding DVB subtitling, and a range of VBI processing options the picture a modern powerful product is completed.

KEY STANDARD FEATURES:

- ✧ **QPSK input**
- ✧ **Analogue V/A output**
- ✧ **VBI handling**
- ✧ **Format conversion**
(Letterbox/PANSCAN/14:9 Comb)
- ✧ **RS232 Remote Control**
- ✧ **RS232 Data output**
- ✧ **DVB Subtitling**

KEY OPTIONAL FEATURES:

- ✧ **SDI output with EDH, VITS and embedded audio**
- ✧ **Digital S/PDIF audio output**
- ✧ **DVB ASI output**

IRD I220 TECHNICAL SPECIFICATION

INPUT

DVB QPSK input

Connector: F-type (female), 75 Ω
Frequency range: 950-2150MHz
Symbol rates: 1-45 Mbaud/s
LNC power: 13V, 18V or off
22KHz tone On/off
Spectral inversion: Normal/inverted

OUTPUTS

Analogue Video Output

Connectors: 2 x BNC (female)
PAL, NTSC, SECAM, Russian SECAM

Digital Video Output (OPTIONAL)

Connector: 1xBNC (female) 75 Ω
Replaces one of the analogue video outputs
EDH and VBI (VITS only)

Analogue Audio Output

Connectors: 9Dsub, balanced (male)
One balanced analogue audio pair
Optionally two balanced audio pairs
(MPEG Layer II 2 channel downmix decompression)

Digital Audio Output (OPTIONAL)

Connectors: 9Dsub, unbalanced (male)
Serial Digital Audio (S/PDIF)

Data Output

Connector: 9Dsub, male
Asynchronous RS232

DVB ASI Output (OPTIONAL)

Connector: BNC (female) 75 Ω
Sustained transport stream data rate: 60Mbps

FEATURES

Automatic selection of PAL/SECAM/NTSC TS Handling

Complete DVB PSI/SI processing
PSI/SI disable for non-DVB streams
ATSC service selection
Auto selection of language for audio, subtitling and teletext

Flexible VBI handling

Transcoding of DVB teletext (WST), reinserted in
PAL and SECAM outputs (VBI)
Inverted teletext insertion
Wide Screen Signalling (WSS) and Video
Programming System (VPS)
Test Signal (VITS) generation
Closed Captioning, V.chip
GCR
DIDON

On-screen processing

NCP fingerprinting (NDS Director™)
EBU-teletext subtitling
DVB Subtitling

Format conversion

Letterbox handling
PAN/SCAN
14:9 Combination

PHYSICAL AND POWER

Dimensions:

(W x H x D) 435 x 275 x 44mm (19" x 10.75" x 1RU)
Input Voltage: 110/240VAC
Cooling: Integrated fan, units may be stacked on
top of each other

ENVIRONMENTAL CONDITIONS

Operating Temperature:

0°C to +50°C (without DVB CI module)

Storage Temperature: -20°C to +60°C

Relative Humidity: 5 to 95%

AVAILABLE MODELS:

IRD 1220 / 1: QPSK input; analogue Video +
2 Audio outputs

IRD 1220 / 2: QPSK input; analogue Video +
2 Audio outputs;
ASI Transport Stream output

IRD 1220 / 3: QPSK input; analogue Video +
2 Audio outputs;
ASI Transport Stream output;
SDI digital output



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