



# IRD Receiver

## Professional Digital Video Reception

### Digital Head End Series

#### Cable Head End

Capable of receiving digital feeds from Satellite links, Terrestrial compression centres or a main cable head-end, the IRD is a professional product with a wide range of interfaces and functionality ideal for the Cable Market.

The IRD is capable of descrambling one selected service and delivering it as an ASI output.

A complete ASI service can be achieved by cascading several receivers.

A major function of a professional IRD at an analogue cable head-end is to provide excellent analogue audio and video signals.

The IRD achieves this with its ability to handle all major composite formats including PAL, NTSC and SECAM.

#### Satellite

The IRD can be used as a satellite receiver at receive sites and also for the monitoring of content delivery.

The receiver supports a wide range of DVB open standards and proprietary scrambling systems making it well suited to operate in a large number of different satellite distribution systems.

The IRD can also be utilised in a highly secure TANDBERG Director network management and receiver control system.

This system enables the operator to accurately control who receives their output and using the over air control facilities ensures that receivers are correctly tuned and their content scheduled.

Again this removes the necessity for remote sites to be manned at all times.

#### Business Benefits

- **Cost Effective Solution:**  
The IRD is designed to be shipped in large volume, offering an unmatched price/performance in the professional receiver market.
- **Secure Transmission:**  
The IRD can be delivered with NDS VideoGuard and Common Interface, which mean that it is compliant with all major CA systems.
- **Professional Monitoring:**  
With a selection of input interfaces and simple TS measurement, the IRD is ideal for the monitoring of Satellite networks.
- **Single Service Descrambler:**  
Equipped with either SDI or/and ASI output delivering a descrambled feed, the IRD will meet the need as a single channel descrambler.



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# Technical Specifications

## IRD RECEIVER

### Transport Stream Input Options

- QPSK or ASI Front-End Interface
- ASI input accepts a DVB-ASI compliant signal (188 or 204 byte), at a maximum of 60 Mbit/s.
- QPSK input interfaces directly to Low-Noise Block (LNB) and accepts an intermediate frequency input in the 950 – 2150 MHz (L-band) range.
- Unit can provide DC power, as well as a 22 kHz control signal.

### Conditional Access

- NDS VideoGuard BSkyB Version (Smart Card)
- DVB Common Interface (Conditional Access Module)
- BISS (Mode 0 and 1) (Embedded)

### Output Formats

- One DVB-ASI BNC may be available on the unit depending on the chosen configuration. This provides a transport stream output with a maximum rate of 60Mbit/s.
- The selected service can be transmitted in the clear enabling the IRD to operate as a single channel descrambler.
- Two BNC composite analogue video outputs are present on the rear of the unit. If the factory fitted option of a SDI video output is present, it replaces one of the composite outputs.
- One analogue stereo audio pair carried on a 9-pin D-SUB connector, is available.
- Depending on the input, it is menu configurable to allow one stereo, a dual-mono or two independent mono channels.
- The channels can carry different languages.
- RS-232 asynchronous low speed data output carried on a 9-way D-sub connector, available on all models.

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