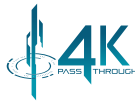


# Datasat RS20i



## The Height of Performance

The RS20i has become the definitive standard for accurate sound processing, and it just got better. Created from proven hardware and software platforms for Hollywood cinemas and production houses, the RS20i adds Dolby Atmos™ to its feature set and is DTS:X Ready™, allowing the most advanced, quality surround reproduction available today. 3D surround adds height and width to soundtracks, for a more immersive experience where listeners will be transported to fantastic new worlds. Home cinema has never sounded better!

## Technical Specifications

### Channels

- 16 fully routable and configurable channels

### Optimization

- Dirac Live 2® room optimization
- Installer kit required to calibrate using Dirac Live®

### Memory Presets

- 20 Memory Presets

### Digital Audio Decoders

#### Dolby®

- Dolby Atmos™
- Dolby Surround Upmixer™
- Dolby Digital Plus™
- Dolby TrueHD™

#### DTS®

- DTS:X Ready™
- DTS-HD Master Audio™
- DTS Neo:X™

#### Auro (Optional Upgrade)

- Auro-3D® Decoding Engine
- Auro-3D® Upmix Engine

### Audio EQ

#### 1/3rd Octave EQ

- 16 channels - 31 user-adjustable bandpass filters
- Adjustable in 0.2dB steps; total gain or loss of 6dB
- Frequencies range from 20Hz to 20kHz. Bass/Treble tone control
- Corner frequencies are adjustable
- 16 channels with 3 user-adjustable parametric filters for shaping Subwoofer response.
- Adjustable from 20Hz to 200Hz, gain +/-6dB in 0.1dB steps
- Q range from 0.7 to 5

### Audio Delays

#### Individual Channel Delays

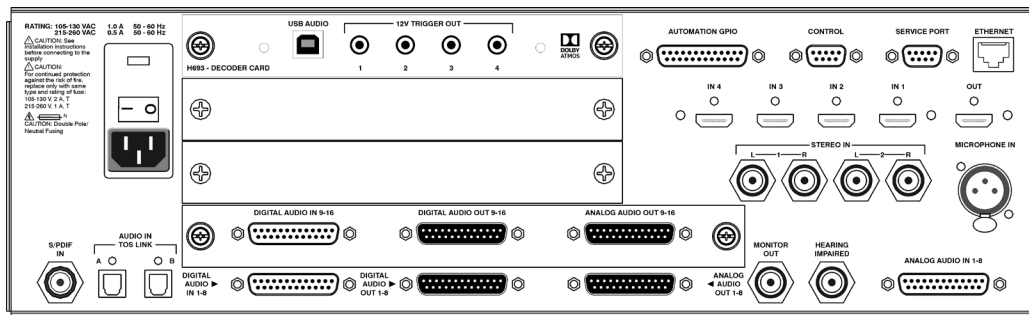
- 0-1000ms

#### Global Delay

- 0-1000ms

### Automation Inputs/Outputs

- DB25 (GPIO)
- 1 RS232 DB9
- Ethernet



## Inputs

### Video Inputs

- 4 HDMI Inputs
- 1 HDMI 2.0 compliant digital audio with 4K video pass-thru and HDCP 2.2

### Digital Audio Inputs

- Channels: 16
- Connectors: 2 DB25 Female (can be connected balanced or unbalanced)
- 8 channels per connector
- Digital Format: AES/EBU
- Sample Rates: 44.1kHz, 48kHz, 96kHz and 192kHz

### Other Digital Audio Inputs

- 2 TOSLINK (optical S/PDIF) and 1 coaxial (S/PDIF)

### Analog Audio Inputs

- Channels: 16 balanced, can be connected unbalanced
- 2 DB25 Inputs (8 Channels Per Input)
- Impedance: 10k ohms
- Reference level: 300mV RMS
- 2 Pair RCA jacks (for Stereo Input)

## Outputs

### Video Outputs

- 1 HDMI 2.0 compliant with 4k pass-thru and HDCP 2.2

### Digital Audio Outputs

- Channels: 16 balanced, can be connected unbalanced (1-8 and 9-16)
- Connector: 2 DB25 Male (fully routable as to input)
- Digital Format: AES/EBU
- Sample Rates: 48kHz, 96kHz and 192kHz

### Analog Audio Outputs

- Channels: 16 (fully routable as to input), common mapping with Digital Outputs
- Connectors: 2 DB25 Male (1-8 and 9-16)
- Level: -10dBu with volume at -15dBu, +26dBu max (balanced)
- Connector: 1 single-ended RCA output, channel-selectable to drive an external monitor. Adjustable Levels, to 300mV rms
- Connector: 1 single-ended RCA output, summed output for assistive listening. - Fixed level out, 300mV rms

## Management

### Remote Control

- 1 RS232 DB9
- 10/100 Ethernet
- Smartphone remote control setup/operation profiles
- Named profiles identifying inputs, output, filter and channel gain settings
- Export/Load user profiles to additional audio processors with identical room setups (via USB)

## Power Requirements

110-240 VAC, 50-60Hz  
94W power consumption

## Hardward Dimensions

3U 19" (48.3cm) rackmount standard  
5.25"(H) x 19.0"(W) x 15.0"(D) Shipping weight: 20lbs

## Available Upgrades

8 channel expansion card  
Auro-3D®

## E&OE

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Version 100115

