MAIN MENU

ROTEL®

INPUT SETUP
SPEAKER CONFIGURATION
SPEAKER DELAY SETUP
SUBWOOFER SETUP
TEST TONE
VIDEO SETUP
PEQ CONFIGURATION
SYSTEM SETUP
EXIT

HDMI dts™ Master Audio DOLBY TRUEHD

5V 2.1A

RSP-1582

7.1 Home Theater Surround Processor / Preamplifier

PRELIMINARY

ROTEL®

RSP-1582 is the culmination of the latest in Rotel technology. Our engineers painstakingly evaluated every circuit design and feature requirement, challenging themselves to develop the very best audio/video performance they could at a price point unmatched in today's market.

The RSP-1582 easily meets that challenge and is replete with all of the functions, features and performance that any home theater enthusiast could want. First and foremost, Rotel is an audio company and the DACs featured in this model consist of 6 x high performance Wolfson 24bit, 192kHz. There are four independent DACs for Front Left, Front Right, Center and Subwoofer channels with 2 shared stereo DAC's for the surround channels.

RSP-1582 features a BYPASS function for analog audio inputs including CD, Phono, XLR Balanced and Aux to obtain the cleanest analog signal for 2 channel listening experience. The volume control provides user micro-control with 0.5db step increments. In theater mode, there is a Texas Instruments Aureus TMS320DA808 DSP high-performance decoder with 10-channel PEQ (Parametric Equalization) and a PCM1804 audio performance ADC (analog to digital convertor).

For video use, the preamp/processor incorporates 8 x HDMI video inputs with 2 x HDMI video outputs all supporting 4K video pass-through. The RSP-1582 employs a Silicon Image Sil9573 2K/4K HDMI transceiver. There is a seven-inch TFT display on the front panel to provide easy adjustments to all audio and video parameters without the need to turn on an external flat panel display or video projection system.

If you are passionate about home theater and are looking to create the highest quality audio/video system possible, you need to begin with a reference level preamp/processor.

Other features include a front panel HDMI input with 4K video pass-through, front panel iPod USB input with 2.1A charging and integrated APTX enabled Bluetooth technology for higher fidelity. The RSP-1582 also includes a PC-USB input supporting 24 bit / 192kHz audio, a phono stage input, CD input , XLR balanced input, Tuner input, 4 AUX analog inputs and multi channel input.

The RSP-1582 output connections include both XLR balanced and RCA multi channel for optimal connection to a power amplifier. The XLR and RCA outputs include dual subwoofer outputs allowing multiple subwoofers to be used in the theater for ultimate performance.

In addition to its unassailable audio and video performance, custom installers will find the RSP-1582

ideal for any installation application with RJ45 network connection, USB front panel connector supporting software updates, three source independent trigger outputs, a wired IR remote input, RS232 interface and IP network interface for automation system control, 2 x IR output connectors for IR pass-through and front panel setup navigation keys.

All of these features and technology mean nothing though, if the end result doesn't meet your expectations. That's why we spend countless hours measuring, listening and tuning the RSP-1582 using globally sourced, select grade, electronic components including a Rotel factory built toroidal transformer. Everything is carefully evaluated for the best audio performance before the new model goes into production.

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SPECIFICATIONS

Audio

Total Harmonic Distortion	<0.008%
Intermodulation Distortion (60Hz : 7kHz, 4:1)	<0.008%
Frequency Response	10Hz - 100kHz, ±1.5dB (Analog Bypass) 10Hz - 20kHz, ±0.3dB (Digital Input)
Signal to Noise Ratio (A-weighting)	100dB (analog bypass) 92dB (Dolby Digital, DTS) 0dBFS
Input Sensitivity	
Line Level:	250 mV/100k ohms
Balance Level:	250 mV/100k ohms
Output Level	
Line Level (RCA):	1.0 V
Balance Level (XLR):	2.0 V
Channel Separation	>75 dB (at 10kHz)
Digital Audio	Dolby Digital, Dolby Digital EX, DTS, DTS-ES, DTS 96/24, DTS-ES 96/24, LPCM (up to 192kHz 24bits)
Lossless Compressed Digital Audio	Lossless Compressed Digital Audio Dolby® TrueHD, Dolby® Digital Plus, DTS™ HD Master Audio

Video

HDMI standard	Audio Return Channel, 3D, Deep Color, 2K, 4K Pass-Through
Input Resolutions	480i, 576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 2K, 4K
Output Resolutions	480i, 576i, 480p/576p, 720p, 1080i, 1080p, 1080p 24Hz, 2K, 4K
Deep Color Support	24bits

Power

Power Requirements	
USA:	120 Volts, 60 Hz
EC:	230 Volts, 50 Hz
Power Consumption	45W
Standby Power Consumption	<0.5W
BTU	140 BTU/h
Dimensions (W x H x D)	431 x 188 x 417mm 17 x 7 2/5 x 16 2/5 in
Front Panel Height	4U (177mm, 7 in)
Weight (net)	12 kg, 26.46 lbs