DOLBY DIGITAL EX®/DTS ES® SURROUND RECEIVER



OK, so you know the benefits of HDMI. That's the high definition audio/video (or "multi-media") interface that lets you connect a DVD player, for example, to a processor or receiver with just one cable. And then use just one more cable to get all that information to your TV screen. Think you'd like that convenience? And how about switching so you can select one or the other HDMI-equipped source without the hassle of changing multiple cables? The SR4001 has it. Not quite that far on the leading edge? Don't worry. Instead, think about the advantages of having assignable component video inputs. And S-vide to component video upconversion so you can enjoy superb picture quality from almost any source. Yes, the SR4001 has them too. A second zone audio output so you can enjoy your favorite sources in a different area of your home. Well, to steal a phrase from a spaghetti sauce company, "It's in there." You'll also find Dolby Headphone, so you can enjoy a surround experience in private. Think of those late night TV broadcasts in surround sound. Now you can listen as loudly as you want without waking your neighbor. Or your baby. The infrared flasher input lets the SR4001 play nicely with other components in your system. And the backlit remote controller easily learns those other commands so it can converse intelligently with every citizen in your home entertainment world. In fact, everything you really need for a great system is in the SR4001. Except for the remote. That's in your hand. And it won't melt either.

- 80 watts (into 8 ohms) x 7 ch Amps
- HDMI (V1.1) Repeating: 2-In / 1-Out
- All discrete amplifier stages
- x3 Assignable Components Inputs
- 32 bit DSP
- 192 kHz/24-bit D/A converters for all channels
- Dolby Digital EX, Pro Logic IIx (Movie/Music/Game),
- DTS 96/24, ES (Discrete 6.1/Matrix6.1), Neo:6 (Cinema/Music)
- SRS Circle surround II (Cinema/Music/Mono)
- Dolby Headphone
- Pure Direct mode
- · On Screen Display

- Component video switching (3 in/1 out)
- x3 Optical / x2 Coaxial digital inputs (4 assignable)
- 2nd Zone Audio Output (Same Source)
- 50 AM/FM station presets
- Improved Station naming
- Simple setup menu
- Display dimmer
- D-BUS (RC-5 In/Out)
- Direct IR Flasher Input remote connection
- Detachable power cord
- Front panel A/V/Optical inputs
- Learning Backlight system remote
- Three year limited warranty

















SR4001

| MULTICHANNEL/SURROUND Number of Channels 7 THX - DTS (ES, Discrete 6.1/ Matrix 6,1, Neo-6) | NEW LINES | |
|--|---------------------------|----------------------|
| Number of Channels THX - DTS (ES, Discrete 6.1/ Matrix 6,1, Neo-6) Dolby Digital EX Dolby Pro Logic IIx Circle Surround II SOUND ENHANCEMENTS HDCD Decoder Current Feedback Topology Discrete Amplification Power Transformer D/A Conversion Digital Signal Processing Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In Component In S-Video Out Component Out S-Video Out Composite Out Aualog L&R In Analog L&R Out Digital Optical In Digital Coaxial Out I - | FEATURES | |
| THX DTS (ES, Discrete 6.1/ Matrix 6,1, Neo-6) Dolby Digital EX Dolby Pro Logic IIx Circle Surround II SOUND ENHANCEMENTS HDCD Decoder Current Feedback Topology Discrete Amplification Power Transformer D/A Conversion Digital Signal Processing Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS HDMI In Component In SVideo Out Component Out SVideo Out Componier Out Composite Out AUDIO Analog L&R In Analog L&R Out Digital Coaxial In Digital Coaxial Out I Compical Coaxial In Digital Coaxial In | | _ |
| DTS (ES, Discrete 6.1/ Matrix 6,1, Neo-6) Dolby Digital EX Dolby Pro Logic IIX Circle Surround II SOUND ENHANCEMENTS HDCD Decoder Current Feedback Topology Discrete Amplification Power Transformer D/A Conversion Digital Signal Processing Video Off Cursu Logic® 32-Bit Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion S-Video to Component Auto Calibration XM-Ready AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) NOUTPUTS VIDEO HDMI In Component In S-Video In Composite In HDMI Out Component Out S-Video In Composite Out Composite Out AUDIO Analog L&R In Analog L&R In Analog L&R Out Digital Coaxial Out I Digital Coaxial Out I Compict Out Digital Coaxial In Digital Coaxial Out I Composite Out Digital Coaxial In Digital Coaxial In Digital Coaxial Out Digital Coaxial Out Digital Coaxial In | | 7 |
| Dolby Digital EX Dolby Pro Logic IIX Circle Surround II SOUND ENHANCEMENTS HDCD Decoder Current Feedback Topology Discrete Amplification Power Transformer Bi D/A Conversion Digital Signal Processing Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion Auto Calibration XM-Ready AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) NOUTPUTS VIDEO HDMI In Component In S-Video Un S-Video Un S-Video Un S-Video In S-Video Un S-Video In S-Video In S-Video In S-Video Un S-Video Un S-Video In S-Video In S-Video In S-Video In S-Video Un S-Video Un S-Video Un S-Video In S-Video In S-Video In S-Video In S-Video Un S-Vid | | - |
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| Circle Surround II SOUND ENHANCEMENTS HDCD Decoder Current Feedback Topology Discrete Amplification Power Transformer D/A Conversion Digital Signal Processing Video Off Voleo Upconversion Auto Calibration AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In Component In S-Video Out Component Out S-Video Upconversion Autol Calibration Composite In HDMI Out Component Out S-Video Upconversion Analog L&R In Analog L&R Out Digital Optical In Digital Coaxial In Digital Coaxial In Digital Coaxial Out I 1 Corponent In Signal Processing (All 7ch) FE Cirrus Lopics 3 S-Bit (All 7ch) FE FI Cirrus Lopics 3 S-Bit (All 7ch) FE FI Cirrus Logics 3 2-Bit Vieloge 3 32-Bit Vieloge 3 32- | , 0 | • |
| SOUND ENHANCEMENTS HDCD Decoder Current Feedback Topology Discrete Amplification Power Transformer Ei D/A Conversion Digital Signal Processing Video Off * Currus Logic® 32-Bit Video Off * Source Direct Chassis Metal Variable X-over Chassis Metal Variable X-over Display Off * Video Up-conversion Auto Calibration S-Video to Component Auto Calibration XM-Ready AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) INOUTPUTS VIDEO HDMI In 2 Component In S-Video In Composite In HDMI Out 1 Component Out S-Video Out Composite Out Composite Out Composite Out Composite Out Composite Out Composite Out S-Video Out Composite | | • |
| HDCD Decoder Current Feedback Topology Discrete Amplification (All 7ch) Power Transformer Ei D/A Conversion 192kHz/24-Bit Digital Signal Processing Cirrus Logic© 32-Bit Video Off • Source Direct Chassis Metal Variable X-over (5 points) Display Off • Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 Composite Out 3 AUDIO Analog L&R In 8 Analog L&R In 8 Analog L&R Out 1 Digital Coaxial In 2 Digital Coaxial Out 1 Digital Coaxial Out 1 Digital Coaxial Out 1 Digital Coaxial In 2 Digital Coaxial In 1 Digital Coaxial Out 1 Digital Coaxial In 1 Digital Coaxial In 1 Digital Coaxial In 1 Digital Coaxial Out 1 | Circle Surround II | • |
| Current Feedback Topology Discrete Amplification Power Transformer Ei D/A Conversion Digital Signal Processing Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In Component In S-Video In Component Out S-Video Video Vide | SOUND ENHANCEMENTS | |
| Discrete Amplification Power Transformer D/A Conversion D/A Conversion Digital Signal Processing Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In Component In S-Video In Composite In HDMI Out Component Out S-Video Variable Marker Composite Out | HDCD Decoder | • |
| Power Transformer D/A Conversion Digital Signal Processing Video Off Source Direct Chassis Metal Variable X-over Display Off Video Up-conversion Auto Calibration XM-Ready AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) NOUTPUTS VIDEO HDMI In Component In S-Video In Composite In HDMI Out Component Out S-Video Out Composite O | Current Feedback Topology | • |
| D/A Conversion Digital Signal Processing Video Off Chassis Metal Variable X-over Display Off Video Up-conversion Auto Calibration XM-Ready AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) NOUTPUTS VIDEO HDMI In Component In S-Video In Composite In HDMI Out Component Out S-Video Out Composite Out AUDIO Analog L&R In Analog L&R Out Digital Optical In Digital Coaxial In | Discrete Amplification | • (All 7ch) |
| Digital Signal Processing Video Off Video Off Video Off Vource Direct Variable X-over Video Up-conversion Auto Calibration Var-Ready AMFM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) TN/OUTPUTS VIDEO HDMI In Component In S-Video In Component Out S-Video In Component Out S-Video In Component Out S-Video In Component Out S-Video In S-Video Out S-Video Out S-Video Out S-Video Out S-Video Out S-Video Out S-Video In S-Video Out S-Vide | Power Transformer | Ei |
| Video Off • Source Direct • Chassis Metal Variable X-over • (5 points) Display Off • Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - IN/OUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AUDIO 3 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 2 Digital Optical Out 1 Digital Coaxial Out 1 | D/A Conversion | 192kHz/24-Bit |
| Video Off • Source Direct • Chassis Metal Variable X-over • (5 points) Display Off • Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - IN/OUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AUDIO 3 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 2 Digital Optical Out 1 Digital Coaxial Out 1 | Digital Signal Processing | Cirrus Logic© 32-Bit |
| Chassis Metal Variable X-over • (5 points) Display Off • Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - NOUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AUDIO 2 AuDIO August 8 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 2 Digital Optical Out 1 Digital Optical Out 1 Digital Coaxial Out 1 | | • |
| Variable X-over • (5 points) Display Off • Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - INOUTPUTS INOUTPUTS VIDEO Thomation HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AUDIO 2 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 2 Digital Coaxial In 2 Digital Coaxial Out 1 | Source Direct | • |
| Variable X-over • (5 points) Display Off • Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - INOUTPUTS INOUTPUTS VIDEO Thomation HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AUDIO 2 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 2 Digital Coaxial In 2 Digital Coaxial Out 1 | Chassis | Metal |
| Display Off Video Up-conversion Auto Calibration XM-Ready AMFM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In Component In S-Video In Composite In HDMI Out Component Out S-Video Out Composite Out Composite Out Audio Out Audio Out Composite Out Digital Optical In Digital Optical Out Digital Coaxial In Digital Coaxial In Digital Coaxial Out I - SM-Ready - Component - Component - Component - Composite Out - Composi | | |
| Video Up-conversion S-Video to Component Auto Calibration - XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - IN/OUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AUDIO 2 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 3 Digital Optical Out 1 Digital Coaxial In 2 Digital Coaxial Out 1 | | • (5 points) |
| Auto Calibration - XM-Ready - AM/FM tuner | | S-Video to Component |
| XM-Ready - AM/FM tuner • Bass management - Lip-sync (digital audio delay) - Software Upgradeable (RS232) - INOUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In 5 HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 AuDIO 2 Analog L&R In 8 Analog L&R Out 3 Digital Optical In 3 Digital Coaxial In 2 Digital Coaxial Optical Out 1 Digital Coaxial Out 1 | 1 | 5-video to component |
| AM/FM tuner Bass management Lip-sync (digital audio delay) Software Upgradeable (RS232) INOUTPUTS VIDEO HDMI In Component In Svideo In Composite In HDMI Out Component Out Svideo Out Composite Out 2 Composite Out 2 Lip-syldeo Out 3 Lip-syldeo Out 1 Lip-syldeo Out 2 Lip-syldeo Out 3 Lip-syldeo Out 4 Lip-syldeo | | - |
| Bass management | • | |
| Lip-sync (digital audio delay) Software Upgradeable (RS232) IN/OUTPUTS VIDEO HDMI In 2 Component In 3 S-Video In 5 Composite In HDMI Out 1 Component Out 1 S-Video Out 2 Composite Out 2 Composite Out 3 HDMI Out 1 S-Video Out 2 Composite Out 3 Jigital Optical In 1 Digital Optical In Digital Optical Out 1 Digital Coaxial In Digital Coaxial In Digital Coaxial Out 1 | | • |
| Software Upgradeable (RS232) - INOUTPUTS | · · | • |
| IN/OUTPUTS | | - |
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| HDMI In 2 Component In 3 S-Video In 5 Formula 5 Formul | | |
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| Analog L&R Out 3 Digital Optical In 3 Digital Coaxial In 2 Digital Optical Out 1 Digital Coaxial Out 1 | AUDIO | |
| Digital Optical In 3 Digital Coaxial In 2 Digital Optical Out 1 Digital Coaxial Out 1 | Analog L&R In | 8 |
| Digital Coaxial In 2 Digital Optical Out 1 Digital Coaxial Out 1 | Analog L&R Out | 3 |
| Digital Coaxial In 2 Digital Optical Out 1 Digital Coaxial Out 1 | Digital Optical In | 3 |
| Digital Optical Out 1 Digital Coaxial Out 1 | Digital Coaxial In | |
| Digital Coaxial Out 1 | | 1 |
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| | IEEE1394 connection | |

| IN/OUTPUTS (continued) | |
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| OTHER | |
| Pre-Amplifier Out | 8ch |
| Main Amplifier In | - |
| Multi-Channel In | 8ch |
| Multi-Room Audio Out | - |
| Multi-Room Video Out | - |
| Multi-Room Speaker Out | • |
| Speaker A/B | Surround Speaker "B" |
| External control (RS232C) | <u>-</u> |
| DC Triggers | - |
| D-Bus Remote (RC-5) In/Out | 1/1 |
| External IR In/Out | 1/0 |
| Front Panel A/V Inputs | • (+ Digital Opt.) |
| Headphone Out | (Dolby Headphone) |
| AC Outlets (Switched/Unswitched) | 1/1 |
| SPECIFICATIONS | |
| AUDIO SECTION | |
| Power Output (8 Ohm) | 80W x 7 |
| S/N Ratio | 105dB |
| Freq. Response (Analog In) | 8Hz - 100kHz (+/- 3 dB) |
| Freq. Response (Dig In) | 8Hz - 45kHz (+/- 3 dB) |
| TUNER SECTION FM | |
| Frequency Range | 87.5 - 108.0MHz |
| S/N Ratio (Mono/Stereo) | Mono/Stereo: 75/70 dB |
| TUNER SECTION AM | |
| Frequency Range | 520 - 1710kHz |
| S/N Ratio | 50 dB |
| VIDEO SECTION | |
| Video Freq. Response (Component) | 5Hz - 80MHz (-1 dB) |
| Video Freq. Response (Composite, S-Vid | eo) 5Hz - 8MHz (-1 dB) |
| Signal to Noise | 60dB |
| GENERAL | |
| Color | Black |
| Front Panel | Aluminum |
| Remote Control | Learning/Pre-coded with backlight - RC5001SR |
| Power Requirement | AC 120V/60Hz |
| Power Consumption | 450W |
| Dimensions W" x H" x D" (Inches) | 17 5/16" x 6 5/16" x 15 2/8" |
| Weight (lbs) | 25.1 |
| | |



