



SHERBOURN TECHNOLOGIES, INC.
19-3A Sterling Road North Billerica, MA 01862 USA

Tel 978.663.7385 Fax 978.663.7389
www.Sherbourn.com

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Sherbourn®



Home Theater and Custom Solutions

Sherbourn Technologies is a dynamic consumer electronics company that designs and manufactures some of the finest home theater and custom installation products in the world.

Headquartered in the suburbs of Boston, Sherbourn enjoys a rich and deep-seated pedigree. Owners Ron Fone and E. Tang are industry veterans whose synergistic engineering and marketing skills were developed and enriched by working with some of the premier companies in the consumer electronics industry, including Accoustic Research®, a/d/s/®, and McIntosh®.

From the beginning, the company's core philosophy has been to design and manufacture outstanding products with high levels of innovation, performance, quality and reliability.

At Sherbourn, our craftsmanship is revealed not in what you see, but in the details that are hidden.

We understand that building the highest quality, best-valued components is no easy task, yet many companies offer this same pledge. At Sherbourn, we realize that this pledge is more than just a cliché, but an ideal to be accomplished through all phases of the design process. The most important phase in design, is considering its value to the consumer. We're confident in saying that Sherbourn products are the best value available in the industry.

Sensible design is complimented by unequalled customer support. Sherbourn is proud to offer a five-year warranty on all home theater amplifiers, and a three-year warranty on all other products.

We realize that quality, innovation and customer support are not buzzwords, but merits we must achieve everyday. From the first conceptual idea to the first line drawn on paper, to the delivery of the finished product, we are passionately focused on our goals.

We are very proud of our accomplishments and excited about the future of home theater and custom installation. And we are pleased that you have taken the time to consider Sherbourn!



Sherbourn®

HOME THEATER

7/2100A, 5/5210A and 7/1250A Multi-channel Amplifiers

The Sherbourn name is synonymous with innovation, performance and value. Its original amplifier was a single chassis, housing five mono blocks, five transformers and five heat-sinks. That design concept made for a smooth transition to the awesome 7/2100A, with seven of everything instead of five. Its massive 2.1kW, 4 ohm output requires 28 amps. To avoid the need for a special 30 amp circuit, Sherbourn includes two power cords for two 15 amp outlets. There is also a five-channel version called the 5/5210A that uses five of everything instead of seven. The 7/1250A uses the

same chassis and appearance as the 7/2100A and outputs 1.25kW into 4 ohms via two hefty transformers.

Don't be content with an ordinary receiver. For little more money you can get Sherbourn's high-end home theater components and really enjoy the power and majesty of a movie soundtrack, the articulation of the human voice, the delicacy of a string quartet—everything is there on all Sherbourn products, thanks to a dedication to innovation, accuracy and performance.



7/2100A and 5/5210A Front Panel



7/2100A Inside



7/1250A Inside



7/1250A Rear



7/2100A Rear

LDS 12-900 Amplifier

This six-zone amplifier is housed in the same elegant rack-mountable chassis as our other high output models. Each zone can handle two pairs of eight ohm speakers at a rated output of 100/150 watts into 8/4 ohms respectively. Performance remains superb because of the continued use of discrete bi-polar transistors, big capacitors, hefty toroidal transformers, and large heat-sinks. The rear panel has switches for bridging/summing and local/global input selection. Six selectable signal sensing switches, six low volt triggers and six pairs of large removable speaker connectors are included. The patent pending LDS (Load Detection System) circuitry permits loudspeaker connections to be thoroughly tested before the amplifier can start to play music.

LDS 16-40 Amplifier

This elegant rack-mountable amplifier offers 40/60 watts into eight and four ohms respectively, of smooth, articulate power from each of sixteen channels.

Included on the rear panel are RCA inputs for eight zones and a bussing system when zones share the same input, plus music signal sensing switches, gain controls, stereo/mono/bridging switches, 12 volt triggers and eight pairs of speaker connectors. Each zone can drive two pairs of eight ohm or one pair of four ohm speakers. Inside the chassis are thirty two discrete output devices, two hefty 775VA toroidal transformers and eight large heat-sinks for truly efficient fan-free cooling.

The LDS 16-40 includes Sherbourn's patent pending circuitry which checks each zone for short circuits and then measures the intended load's impedance to enhance long term reliability. Sherbourn's world-wide reputation for performance, value and reliability is further advanced with this remarkable and versatile amplifier.



LDS 16-40 and 12/900 Front Panel



LDS 16-40 Inside



LDS 12/900 Rear



LDS 16-40 Rear



TST200-4 Front



TST200-4 Rear



C-12 Front



C-12 Rear

TST200-4 Amplifier

The TST 200-4 is a slim, 1U high amplifier that defies its small size. Outputting 100 watts for each of its stereo channels, the TST 200-4 can easily drive four pairs of 8-ohm speakers in up to four zones. Each zone can be selected separately from the independent front panel buttons. No more need for a cumbersome speaker selector box. The rear panel includes XLR and RCA inputs, a 12-volt trigger input, signal sensing switches, gain controls, a stereo/mono switch and a subsonic filter for removing low frequency noise that may cause saturation. Optional rack mounting hardware is available for those who choose to include the amp in a custom application.

C-12 Configurable Cooling Unit

In an age of inconspicuous consumption, where more and more electronic installations are being concealed in cabinets or cupboards, heat has become a major factor. Heat is the enemy of all electronic components and is a major contributor to poor reliability. Housed in a rack-mountable chassis, Sherbourn's innovative C-12 cooling unit is designed to permit multiple configurations for pointing the cool air emanating from its three thermally governed fans into any direction including the outside—you make the decision based upon your needs. The C-12 has a low voltage trigger, a built-in thermal and/or pigtail sensor, a minimum temperature activation switch and a synch switch in case you want two fans.

No other fan system offers the flexibility of Sherbourn's, with its ability to move over one hundred cubic feet of air per minute in a whisper-quiet, efficient manner.



C-12 Side

LDS 2/150A and LDS 2/75 Amplifiers

The LDS 2/150A audio/video amplifier is an innovative, attractive and versatile performer that can be used as a television amp as well as an audio amplifier where its diminutive size can satisfy the needs of a custom solution.

Housed in a slim 1U chassis with an elegant blue LED, the LDS 2/150A can be freestanding, wall mounted or rack mounted using the optional panel. This “discrete” amplifier uses a hefty toroidal transformer and outputs two channels of 50/75 watts into 8/4 ohms respectively. Used in its mono mode, the LDS 2/150A outputs up to 150 watts. Its outstanding musical performance is ensured by its skillful design and the use of top quality components including bi-polar and MOSFET transformers.

The LDS 2/150A incorporates a CPU that measures an intended impedance to prevent an excessive load being imposed that could cause overheating.

The front panel allows input selection: switch-off delay time, a separate “B” mode trigger level adjustment and a volume setting. The rear panel includes two sets of line level inputs, two sets of speaker level inputs, a set of buffered outputs, 12-volt trigger and music signal sensing circuits. In addition there is an adjustable turn on control, two sets of removable speaker connectors, the Sherbourn patented LDS speaker test circuit and an 18 dB per octave sub-sonic filter to prevent low frequency saturation of transformer volume controls.

The LDS 2/75 is identical to the LDS 2/150A but we have eliminated the extensive A/V switching capability for those who are looking to utilize the exceptional performance but don't need that advanced capability of the LDS 2/150A.



Two LDS 2/150A units in a Rack Mount



LDS 2/150A Front



LDS 2/75 Front



LDS 2/150A Inside



LDS 2/150A Rear

T100 Tuner with Remote



T100 AM-FM Tuner

Sherbourn's core philosophy of creating innovative technology is again exemplified in its remarkable T100 AM/FM tuner.

Whilst acknowledging the value of Satellite Tuners, Sherbourn contends that consumers wanting local sports or talk radio programs still need to use an AM band with its traditionally mediocre reception due to the fact that the AM signal is particularly susceptible to interference from adjacent electronic equipment.

The T100 tuner has a twelve volt power supply, effectively acts as its own AM/FM antenna, and offers the option of remotely locating the unit away from any interference resulting in a significant improvement in performance. The unit's

CAT5 connection, carrying the RS232 information, enables a smooth integration it into any preamp/ keypad system. In addition to giving keypad-access to selected AM or FM stations, the T100 will automatically seek and store the strongest stations in each geographic listening area. The chassis measures 6" x 4" x 1.5" and includes a front panel LED frequency read-out and key-slots for attachment to attic beams. For consumers wanting local control of the tuner functions the unit includes an IR sensor and a hand-held remote control.



Break-out Box

SPECIFICATIONS

7/2100A and 5/5210AA

Carton weight (7/2100A)	115 lbs.
Carton weight (5/5210A)	85 lbs.
Rated power	200 watts per channel @ 8 ohms and 300 watts per channel @ 4 ohms with no more than 0.3% THD from 20 Hz-20 KHz all channels driven
Power bandwidth	5Hz-50KHz
Gain	30dB
Signal to noise ratio	110dB/wide band, 110dB/A weighted
Input impedance	40 K ohms
High-level sensitivity	1100 K ohms
Dynamic headroom	1.3 dB
Power supply	110v/60Hz or 222v/50Hz
Dimensions	17.7" W x 18.2" D x 7" H

7/1250A

Carton weight	76 lbs.
Rated power	125 watts per channel @ 8 ohms and 250 watts per channel @ 4 ohms with no more than 0.3% THD from 20 Hz-20 KHz all channels driven
Power bandwidth	5Hz-50KHz
Gain	30dB
Signal to noise ratio	110dB/wide band, 110dB/A weighted
Input impedance	40 K ohms
High-level sensitivity	1100 K ohms
Dynamic headroom	1.3 dB
Power supply	110v/60Hz or 222v/50Hz
Dimensions	17.7" W x 18.2" D x 7" H

LDS 12/900

Carton weight	63 lbs.
Rated power	50 watts per channel @ 8 ohms and 75watts/channel @ 4 ohms with no more than 0.05% THD from 20 Hz-20 KHz all channels driven
Power bandwidth	10Hz-75KHz
Gain	40dB
Signal to noise ratio	85dB/wide band, 90dB/A weighted
High input impedance	3.7 K ohms
Line input impedance	22 K ohms
High-level sensitivity	2 volts
Dynamic headroom	1.3 dB
Power supply	110v/60Hz or 222v/50Hz
Dimensions	17.7" W x 18.2" D x 7" H

LDS 16/40

Carton weight	75 lbs.
Rated power	40 watts per channel @ 8 ohms and 60watts/channel @ 4 ohms with no more than 0.1% THD from 20 Hz-20KHz all channels driven
Power bandwidth	10Hz-75KHz
Gain	30dB
Signal to noise ratio	91dB/wide band, 91dB/A weighted
Line input impedance	22 K ohms
Line level sensitivity	950 Mv
Dynamic headroom	1.3 dB
Power supply	110v/60Hz or 220v/50Hz
Dimensions	17.7" W x 18.2" D x 7" H

TST200-4

Carton weight	28 lbs.
Number of channels	2
Rated power	100 watts per channel @ 8 ohms with no more than 0.05% THD fro 20 Hz-20KHz, all channels driven
Power Bandwidth	10z-75KHz
Gain	46dB
Signal to noise ratio	90dB/wide band, 105dB A weighted
Line input impedance	20 K ohms
Subsonic filter sensitivity	25Hz and 35Hz
Dynamic headroom	1.3dB
Power supply	110v60Hz or 220v/50Hz (factory configured)
Dimensions	17.7" W x 14.5" D x 1.75" H

C-12 Cooling Unit

Carton weight	11 lbs.
Configuration	Three 3.75" thermal sensing fans that can be configured to intake or exhaust
12 volt trigger	Selectable Thermal Switch: The three fans can activate at two different ambient room temperatures
Synch switch	Allows two units to operate at similar speeds
Pig-Tail remote temp. sensor	Governs fan speed from the "hot spot" of the installation
Optional 1.5" exhaust hose	Allows hot air to be drawn from the installation to an alternative location
Chassis dimensions	15.7" W x 8.75" D x 2.25" H
Rack mount dimensions	19" W x 3.75" H (attaches to front panel of fan chassis)

LDS 2/150A and LDS 2/75

Carton weight	11 lbs/5 kilograms (in carton)
Rated power	50 watts per channel @ 8 ohms and 75watts/channel @ 4 ohms with no more than 0.05% THD from 20 Hz-0 KHz all channels driven
Power bandwidth	10Hz-75 KHz
Gain	32 dB
Signal to noise ratio	85 dB/wide band, 90dB A weighted
High input impedance	1.0 K ohms
Line input impedance	12.0 K ohms
High level sensitivity	2.5 volts
Line level sensitivity	500 mv
Fuses	T2AL / 250V
Auto on trigger sensitivity	1mv -5 mv adjustable
Input A delay/off time	(2/150 only) 10 minutes
Input B delay/off time	(2/150 only) .03 Minutes-5 Minutes adjustable
Power supply	110v/60Hz or 220v/50Hz
Dimensions	8.25"W x 13.0" D x 2" H
Rack mount kit	A 17"/450mm rack mount panel is available that will hold 2 units. A blank plate is provided to cover the second aperture if only one amp is used.

T100 AM/FM Tuner

AM:	
Signal to noise ratio	70db
Output level	500MV
IF rejection	55db
Sensitivity at 26db S/N	56db
FM:	
Signal to noise ratio	75db
Distortion	0.5%
Output level	700MV
Stereo separation	40dB
Sensitivity at 50db S/N	15dBf

PT-7010A

- Carton weight: 38 lbs.
- 24-bit, Crystal Semiconductor® analog-to-digital converter and 24-bit, 192 KHz Analog Devices® digital-to-analog converters
- 32-bit, 20 Mhz control processor
- 24-bit, 150 MIPS Motorola Sympony™ DSP processor
- Dolby Digital EX, Dolby Pro Logic 2, Dolby Pro Logic 2X, DTS ES and DTS NEO: 6 decoding modes
- Support for all digital sampling rates to 96 KHz
- Digital Domain treble and bass control as well as bass management function
- DSP “simulated” surround mode for enhancement of two-channel source
- Direct two-channel analog bypass mode
- Gold-plated input and output connectors and balanced XLR outputs and unbalanced RCA outputs
- Six A/V inputs, each with audio, S-video and composite video with three A/V outputs, each with audio, S-video and composite video
- Eight-channel analog input with separate RCA connectors for DVD-audio format
- Three component video inputs and two component video outputs
- Automatic video transcoding: up converts composite and S-video source-to-component video
- Six coaxial and four digital inputs and coaxial and optical digital outputs, including from analog and down mixed 5.1 sources
- AM/FM tuner with 40 presets
- Three audio only inputs including MM phono stage
- Two tape outputs
- Record outputs feature down-mixed two-channel output from a 5.1 digital source
- Four sub-woofer outputs
- 7.1 channel outputs plus stereo side outputs for a total of 9.1 channels
- Party mode for two-channel playback through all speakers
- Zone 2 can play sources independent of the main zone
- Trigger outputs for both zones
- IR control of both zones with rear IR ports and discrete codes
- On-screen display OSD
- RS-232 control port with discrete codes
- IEC standard two-prong removable power cord
- Dimensions: 17.75" W x 15.75" D x 5.875"H

NOTE: All specifications are subject to change without notice.