

TX-DS898

DIGITAL SURROUND HOME THEATER RECEIVER

ONKYO
IMAGINATIVE SIGHT & SOUND



THX SURROUND EX™



192kHz/24bit

WRAT
WIDE RANGE AMP TECHNOLOGY



Shown: North American model (Black only) Europe: Black/Silver Asia: Black/Gold

True Multiroom Capability, Seven Channels of Amplification, Direct/Pure Audio Mode and a Whole Lot More—Welcome Back the 8 Series

For years, the 8 series was a popular line of receivers for Onkyo. This year, we decided to revive the 8 series with the TX-DS898 to fill the gap between the TX-DS787 and the TX-DS989. In addition, Onkyo wanted to expand on its commitment to providing multiroom and custom installation capability. The TX-DS898 accomplishes this seamlessly with features like Powered Zone 2 capability, 12-Volt triggers, a RS-232 port (*European and Asian models*) and a new touchscreen LCD remote control (*Europe and Asia supplied, optional in North America*). Combine these with Onkyo exclusives like Linear Optimum Gain Volume Control, A-Form (Listening Mode Memory), Wide Range Amp Technology (WRAT) and you'll find an unsurpassed level of sonic excellence that you'll be glad we brought back.

Lucasfilm THX Select Certified

The TX-DS898 boasts the distinction of the exclusive THX Select badge of approval. This gives you assurance that this receiver passed (and often exceeds) THX's numerous requirements in such areas as frequency response, distortion, power output, and stability.

Powerful LCD Touchscreen Remote

Onkyo has decided to add something special for the revival of the 8 series. With the TX-DS898's LCD Touchscreen Remote, the power is truly in your hands. This universal learning remote can learn to operate any device that receives infrared signals. The large touchscreen is customizable through a PC software package and software upgrades available via download so you can redesign the graphical interface to fit your needs.

(European and Asian models, optional North American models)

Direct/Pure Audio Switch

Onkyo Engineers have gone to great lengths to reduce the noise that affects the audio signal. In the past, we have done such things as using separate PC boards and placing the FL display and video circuit far away from the audio signal. For those who require the purest signal possible, we have gone one step further, we've added the Direct/Pure Audio Switch. This feature automatically cuts power to the video circuit and tells the micro computer not to feed power to the FL display. This allows for the purest audio signal possible.

Powered Zone 2 With 12-Volt Trigger for an External Amplifier

This trigger allows you to set up an external amp/receiver and speakers in another room, push the Zone 2 button, select another source and you're done. If the amp/receiver in the Zone 2 room has a trigger, when Zone 2 is selected, the TX-DS898 will automatically send a signal via its 12V trigger to the amp/receiver turning it on.

RS-232 Port

As home theater is moving away from just mere components to becoming a network consisting of advanced touchscreen controllers computers, etc. Onkyo provides you with the RS-232 Port. The RS-232 port allows custom installers to incorporate the TX-DS898 into one home network. Customers need only use one remote to control audio, video, lighting, security functions, and more. *(European and Asian models only)*

A-Form Listening Memory Input Mode

This Onkyo exclusive not only remembers the surround mode and subwoofer setting you entered during the configuration process for each input source, but also the settings when you choose that source. This is especially handy if you use your DVD player as your main CD player also. You can set the receiver's DVD input to always playback digital sources (DTS/Dolby Digital) directly in 5.1-channel surround sound and 2-channel CDs in, say, *All-Channel Stereo* mode, for example.

Designed to Handle every Decoding Format Known to Man

In addition to the sound decoding formats you've come to expect from your receiver, we've added the latest and greatest. Here you'll find THX Surround EX, Dolby Pro Logic II, DTS-ES Extended Surround, DTS Neo:6 and standard DTS and Dolby Digital decoding.

TX-DS898

DIGITAL SURROUND HOME THEATER RECEIVER



Shown: North American models

Amplifier Features

- 110 Watts minimum of continuous RMS power to each of the seven channels into 8 ohms from 20 Hz to 20 kHz (North American models, FTC rated)
- 150 Watts minimum of continuous RMS power to each of the seven channels into 6 ohms at 1 kHz (European models, DIN)
- 180 Watts minimum to each of the seven channels into 6 ohms at 1 kHz (Asian models, JEITA)
- Wide Range Amplifier Technology (WRAT)
- Extended Frequency Response (10 Hz to 100 kHz)
- Full bandwidth power to all 7 main channels
- High-current, low-impedance 6 Ohm drive for all 7 channels
- Powered Zone 2
- Reduced NFB (Negative Feedback) Design
- Non-scaling configuration
- Digital upsampling
- Discrete power amplifier circuitry for all channels
- Linear Optimum Gain Volume Control
- Absolute ground plate
- Thick bus bars
- Massive isolated transformer
- High-grade extruded-aluminum heat sink
- Bass and treble tone control (L/C/R/SW)
- Low Frequency Effect (LFE) level control

Audio/Video Features

- THX Select Certified
- THX Surround EX, DTS, DTS-ES 6.1 Discrete, DTS-ES 6.1 Matrix, DTS Neo:6, Dolby Pro Logic II, Dolby Digital (AC-3)
- Theater Dimensional virtual surround
- DVD-Audio capability
- Composite to S-video conversion
- 7.1 Multichannel input
- Cinema Re-EQ

- Advanced 24-bit dual CRYSTAL DSP chips
- 36 DSP modes
- HD DSP (High Definition DSP)
- 192 kHz/24-bit audio D/A converters x 6
- A-Form Listening Mode Memory
- 96 kHz/24-bit audio A/D converters
- RS-232 control port (European/Asian Models only)
- 3 Audio (including phono) and 6 A/V Inputs
- 6 S-video inputs and 3 S-video outputs
- HDTV-Ready 2 Component-video inputs and 1 output
- Front panel Video Input (with S-Video)/ Camcorder input
- Front panel optical digital input
- Digital inputs assignable 5 optical (1 front panel)/3 coaxial
- 2 Digital outputs (optical)
- Heavy-duty, multi-way, dual banana-plug compatible binding posts
- Pre Out terminals for front L/R, center, surround L/R, surround back L/R and subwoofer
- Rec selector (audio/video)
- Character input
- NTSC (North American models)
- NTSC/PAL compatible (European/Asian Models)
- Late night mode
- A/V Sync delay
- All-Channel stereo mode



(European/Asian models Supplied)

- Unique Universal Learning Remote Control
- Large, Bright Touchscreen Display
- Fully Customizable to Your Individual Needs & Tastes
- Direct-Access Buttons for Frequently Used Functions
- Total Control of Infrared-Based Electronic Devices
- Bright Backlighting
- Programmable, Editable Macros & Timers
- Elegant, Intuitive Interface



(North American models Supplied)
Backlit/programmed learning remote with macro functions

FM/AM Tuner Features

- Outstanding selectivity and sensitivity
- 40 FM/AM presets
- Automatic FM scan tuning
- AM loop antenna
- S/N ratio 76 dB (FM mono), 70 dB (FM stereo), 40 dB (AM)
- RDS (European models only)

Other Performance Features

- Large 35-segment dot-matrix fluorescent display
- Pure Audio mode
- High resolution onscreen display
- 3-Mode display dimmer
- IntelliVolume
- Absolute/Relative volume display
- Audio muting, sleep timer (operable via remote)
- Battery-free memory backup
- A/V separate PC boards
- Headphone jack
- Brushed aluminum front panel
- Universal learning touchscreen remote (European/Asian models, optional North American models)
- Backlit/programmed learning remote with macro functions (North American models)

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
<i>North American Models</i>	
Front L/R.....	110 W/Ch (8 Ω, 20 Hz-20 kHz, 0.08 % THD, FTC)
Center.....	110 W (8 Ω, 20 Hz-20 kHz, 0.08 % THD, FTC)
Surround L/R.....	110 W/Ch (8 Ω, 20 Hz-20 kHz, 0.08 % THD, FTC)
Surround Back L/R.....	110 W/Ch (8 Ω, 20 Hz-20 kHz, 0.08 % THD, FTC)
<i>European Models</i>	
Front L/R.....	145 W/Ch (6 Ω, 1 kHz, 0.1 % THD, FTC)
Center.....	145 W (6 Ω, 1 kHz, 0.1 % THD, FTC)
Surround L/R.....	145 W/Ch (6 Ω, 1 kHz, 0.1 % THD, FTC)
Surround Back L/R.....	145 W/Ch (6 Ω, 1 kHz, 0.1 % THD, FTC)
<i>Asian Models</i>	
Front L/R.....	180 W/Ch (6 Ω, 1 kHz, JEITA)
Center.....	180 W (6 Ω, 1 kHz, JEITA)
Surround L/R.....	180 W/Ch (6 Ω, 1 kHz, JEITA)
Surround Back L/R.....	180 W/Ch (6 Ω, 1 kHz, JEITA)
Dynamic Power (front)	
3 Ω/4 Ω/8 Ω.....	280 W/Ch/220 W/Ch/140 W/Ch
Total Harmonic Distortion0.08 % (all channels)	
Frequency Response10 Hz-100 kHz (+1 dB, -3 dB)	
Signal-to-Noise Ratio	
Phono.....	80 dB (IHF-A, 5 mV input)
CD/TAPE.....	110 dB (IHF-A, 0.5 V input)
Phono Overload120 mV RMS, 1 kHz, 0.5% THD	
Damping Factor60 at 8 Ω	
Input Sensitivity and Impedance	
Phono MM.....	2.5 mV, 50 kΩ
CD and TAPE Play.....	200 mV, 50 kΩ
Output Level and Impedance	
TAPE REC.....	200 mV, 470 Ω
PREOUT.....	1.0 V/470 Ω
Tone Control	
BASS.....	± 10 dB at 50 Hz
TREBLE.....	± 10 dB at 20 kHz

TUNER SECTION

Usable Sensitivity	
FM Mono.....	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo.....	0.9 μV (75 Ω DIN)
FM Stereo.....	17.2 dBf, 2.0 μV (75 Ω IHF)
AM.....	23 μV (75 Ω DIN)
Signal-to-Noise Ratio	
FM Mono.....	76 dB, IHF-A
FM Stereo.....	70 dB, IHF-A
AM.....	40 dB
Total Harmonic Distortion	
FM Mono.....	0.2 %
FM Stereo.....	0.3 %
AM.....	0.7 %
FM Stereo Separation45 dB at 1 kHz	
30 dB at 100 Hz-10 kHz	

GENERAL

Dimensions (W x H x D)17 1/8" x 6 7/8" x 18 1/16"	
435 x 175 x 459 mm	
Weight38.4 lbs./17.4 kg	
(North American Models)	
17.9 kg/39.5 lbs	
(European/Asian Models)	

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. "THX" is a trademark of Lucasfilm LTD. "Dolby," "Pro Logic," "Surround EX," and the double-D symbol are trademarks of Dolby Laboratories. "Theater-Dimensional" is a trademark of ONKYO Corp. "DTS," "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

ONKYO
IMAGINATIVE SIGHT & SOUND

Onkyo Corporation Sales & Product Planning Dept.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: 072-831-8111 Fax: 072-833-5222 <http://www.onkyo.co.jp/>
 Onkyo Corporation Marketing Dept.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: 072-831-8008 Fax: 072-833-5222 <http://www.onkyo-intl.com/>
 Onkyo U.S.A. Corporation 18-10 Park Way, Upper Saddle River, N.J. 07458, U.S.A. Tel: 201-825-7950 Fax: 201-825-8150 <http://www.onkyousa.com>
 Onkyo Europe Electronics GmbH Industriestrasse 20, 82110 Germering, GERMANY Tel: 089-849-320 Fax: 089-849-3226 <http://www.onkyo.net>
 Onkyo China Limited Units 2102-2107, Metroplaza Tower 1, 223 Hong Fong Road, Kwai Chung, N. T., HONG KONG, SAR of China Tel: 852-2429-3118 Fax: 852-2428-9039 <http://www.onkyochina.com>