

### **VSX-90**

7.2-Channel Elite® AV Receiver with Dolby Atmos®, Ultra HD Pass-through with HDCP 2.2, High-Resolution Audio Playback, Subwoofer EQ, Dual Subwoofer Preout, Built-in Bluetooth® Wireless Technology and Wi-Fi®, and Spotify® Ready



### **Amplification**

- > Channels: 7
- Amplification Type: Direct Energy
- > 100 W/ch (8 ohms 20 Hz-20 kHz THD 0.08 % 2ch Driven FTC)

### **Audio Features**

- > Dolby Atmos®/Dolby® TrueHD/Dolby Digital® Plus/Dolby Surround
- > DTS-HD® Master Audio/DTS-ES/DTS Neo:6®
- > DSD Direct Playback via Network/USB (2.8 MHz)
- > DSD Disc (SACD) Playback via HDMI (2.8 MHz)
- > Digital Core Engine with Texas Instruments Aureus® DSP x 2
- > Hi-bit24 Audio Processing
- > 192 kHz/24-bit SABRE® Premier Audio DAC (ES9006S) for 7.2ch
- > HDMI Audio Return Channel (ARC)
- > MCACC® Pro Room Calibration
  - Full Band Phase Control
  - Auto Phase Control Plus/Phase Control Plus
  - Standing Wave Control
  - 3D Time Axis Measurement
  - · Polarity Check
  - Automatic Crossover Detection
  - Reverb Before and After Calibration Results (AVNavigator for iPad)
  - Subwoofer EQ (4 Band)
  - Bass Management System
- > Sound Enhancements
  - Advanced Sound Retriever® (Multi-ch)
  - Sound Retriever Link
  - Auto Sound Retriever/Auto Sound Retriever for ARC
  - Auto Level Control (Multi-ch)
  - Virtual Speakers (Wide/Height/Surround Back)
- Advanced Surround Modes
  - Action, Drama, Advanced Game, Sports, Classical, Rock/Pop
  - Front Stage Surround
  - Sound Retriever Air, Phones Surround
  - ECO Mode 1, ECO Mode 2

### Video Features

- > HDMI 7 in/2 out (1 for MAIN, 1 for MAIN/HDZONE)
- → 3D Ready (Blu-ray Disc<sup>TM</sup>, Broadcast, and Games)
- > Deep Color (36-bit), "x.v. Color"
- Ultra HD Pass-through with HDCP 2.2 (4K/60p/4:4:4/24-bit, 4K/24p/4:4:4/36-bit, 4K/60p/4:2:2/36-bit)
- > Video Scaler (1080p to 4K) with Super Resolution

### Home Network Features

- > Apple AirPlay® Certified
- > DLNA Certified® (1.5)
- > HTC Connect® Certified
- » Windows® 8.1 Compatible
- Music File Playback/Seek\*<sup>1</sup> via Network/USB: AIFF, Apple Lossless, WAV, FLAC, MP3, WMA, AAC, DSD
  - 192 kHz/24-Bit Audio playback (AIFF, Apple Lossless, WAV, FLAC)
  - Multi-Channel (5.1ch, 5.0ch) Audio Playback (WAV\*2, FLAC\*3)
- > Gapless Playback for AIFF, Apple Lossless, WAV\*4, FLAC, AAC, MP3
- > Pandora® Internet Radio\*5
- > Spotify® Digital Music-Streaming Service Ready\*6
- > Internet Radio with vTuner®

### Convenience Features

- › iPod® Digital Transmission via Front USB Terminal
- › Android™ Audio/Video Playback with MHL™
- > Start-up Navi (Initial Network Setting App) Ready (iOS/Android)\*7
- > AVNavigator (Wiring Navi/Interactive Operation Guide)
- > iControlAV5 Remote Control App Ready (iOS/Android)\*7
- > HDMI ZONE Out (HDZONE) and Analog Audio Out (ZONE 2)
- > Charges iPod and iPhone®
- > Built-in Wi-Fi (Dual Band 5 GHz/2.4 GHz)
- > Built-in Bluetooth Wireless Technology
- > BT Audio Auto Function
- > Firmware Update via Internet or USB
- > Graphical User Interface (GUI) with Album Artwork (HDMI only)
- > Auto Power Down for Each Zone
- Power Save for HDMI Standby Through
- > AM/FM Tuner 63 Presets
- Sleep Timer
- > Learning Remote Control (Luminous)

<sup>\*1</sup> Except DSD files

 $<sup>^{*2}</sup>$  Except via wireless LAN. Up to 192 kHz streams via USB, up to 96 kHz streams via wired LAN  $^{*3}$  Up to 96 kHz streams

<sup>\*4</sup> Except multi-ch audio streaming via wireless LAN

 $<sup>^{\</sup>rm *5}$  Service only available in the U.S.

<sup>\*6</sup> For service availability in your country, check www.spotify.com

 $<sup>^{*7}</sup>$  Available free of charge from the App StoresM/the Google PlayTM Store Bold denotes step-up features from VSX-45

## ELITE

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### Rear Terminals

- > HDMI 6 in (5 assignable, 1 for HDMI/MHL)
- > HDMI 2 out (1 for MAIN, 1 for MAIN/ HDZONE)
- Ethernet 1 in
- > AV (Composite) 2 in
- > Audio 1 in (assignable)
- > Digital Coaxial 1 in (assignable)
- > Digital Optical 1 in (assignable)
- Component Video 1 in (assignable)
- Monitor Composite 1 out
- > ZONE 2 Audio Preout
- > Subwoofer Preout x 2
- Speaker 9 ch out (FRONT, CENTER, SURROUND, SURROUND BACK, TMd/FW/ Speaker B)
- IR 1 in/1 out
- 12 V Trigger (150 mA)/RS-232c



### Front Terminals

- USB 1 in for iPod/iPhone, USB drive
- MCACC Setup MIC in
- Phones 1 out

### **Power Specifications**

- > Power Requirements: AC 120 V 60 Hz
- Power Consumption/Standby: 550 W/0.1 W

### **Product Specifications**

- > (W x H x D): 17.1 x 6.6 x 14.3 inches
- > Weight: 21.6 lbs.

VSX-90

> 8-84938-29088-3

Weight: 25.4 lbs.

Carton Specifications

> (W x H x D): 20.6 x 9.7 x 18.1 inches

### Integrated Technologies







































































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