

## VSX-45

### ▼ POWER

|                                                                           |                                   |
|---------------------------------------------------------------------------|-----------------------------------|
| Amplifier Design                                                          | <i>Discrete Direct Energy</i>     |
| Channels                                                                  | <i>5.2</i>                        |
| Power Output: Watts per Channel (20 Hz – 20 kHz, THD 0.08 % @ 8 ohms FTC) | <i>80 Watts</i>                   |
| Power Output: Watts per Channel (6 ohms 1 kHz 1 % 1ch Driven)             | <i>140 Watts</i>                  |
| Power Output: Watts per Channel (8 ohms, 1 kHz, 0.08 %, 2 ch Driven FTC)  | <i>SC Model Power Rating Only</i> |
| Power Output: Watts per Channel (4 ohms, 1 kHz, 1 %, 2 ch Driven)         | <i>SC Model Power Rating Only</i> |
| Power Output: Watts Multi ch Simultaneous Drive (8 ohms, 1 kHz, 1 %)      | <i>SC Model Power Rating Only</i> |
| 4 OHM Speaker                                                             | -                                 |
| Estimated Power Consumption/Standby with HDMI Control off                 | <i>450 W/0.1 W (standby)</i>      |
| ENERGY STAR 3.0 Certified                                                 | -                                 |

### ▼ HANDHELD AND INTERNET

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| AirPlay                        | <i>Yes</i>                                                 |
| HTC Connect                    | <i>Yes</i>                                                 |
| Made for iPhone and iPod       | <i>Yes</i>                                                 |
| iOS/Android Remote Control APP | <i>iControlAV5</i>                                         |
| vTuner Internet Radio          | <i>Yes</i>                                                 |
| Pandora Internet Radio         | <i>Yes</i>                                                 |
| DLNA 1.5 (DMP/DMR)             | <i>Yes</i>                                                 |
| Music Playback via USB Network | <i>MP3, WMA, AAC, Apple Lossless, WAV, FLAC, AIFF, DSD</i> |
| HIGH RES AUDIO                 | <i>DSD</i>                                                 |

### ▼ DECODERS & FORMATS

|                         |                                 |
|-------------------------|---------------------------------|
| Digital Core DSP Engine | <i>Texas Instruments Aureus</i> |
|-------------------------|---------------------------------|

|                                        |                |
|----------------------------------------|----------------|
| AIR Studios Certification              | -              |
| iPod Digital Audio                     | Yes            |
| Audio DACs                             | 192K/24Bit     |
| High-Definition Copy Protection (HDCP) | 2.2            |
| Dolby Atmos                            | -              |
| Dolby True HD                          | Yes            |
| Dolby Digital Plus                     | Yes            |
| Dolby Surround                         | -              |
| DTS-HD Master Audio                    | Yes            |
| DTS Neo:                               | DTS Neo:6      |
| HDMI SACD Transfer                     | Multi- Channel |

#### ▼ SOUNDFIELD CALIBRATION

|                          |                   |
|--------------------------|-------------------|
| MCACC                    | Advanced          |
| MCACC Memory             | 6                 |
| Phase Control            | Yes               |
| Auto Phase Control Plus  | Yes               |
| Full Band Phase Control  | Yes               |
| Standing Wave Control    | Yes               |
| EQ Bands                 | 9-Band (Advanced) |
| Symmetric EQ             | Yes               |
| X-Curve                  | Yes               |
| Distance Adjustment      | 1/2 Inch          |
| Precision Distance       | -                 |
| Polarity Check           | Yes               |
| Auto Subwoofer Crossover | Yes               |

#### ▼ LISTENING MODES

|                      |                      |
|----------------------|----------------------|
| Auto Surround        | Yes                  |
| Auto Level Control   | Multi-Channel        |
| Optimum Surround     | -                    |
| Stream Direct        | Direct / Pure Direct |
| Advanced Surround    | 10 + 1               |
| Wide Surround        | -                    |
| Front Stage Surround | Yes                  |

|                    |                                 |
|--------------------|---------------------------------|
| Advance            | Yes                             |
| Headphone Surround | Yes                             |
| Virtual Speakers   | Yes (Surround Back/Height/Wide) |
| Virtual Depth      | -                               |

#### ▼ AUDIO FEATURES

|                          |                               |
|--------------------------|-------------------------------|
| USB DAC                  | -                             |
| DSD Music File           | 2ch (2.8MHz)                  |
| Audio Processing         | -                             |
| Dialog Enhancement       | Yes                           |
| Advanced Sound Retriever | Multi-Channel / Auto with ARC |
| Sound Retriever AIR      | Yes                           |
| Digital Noise Reduction  | Yes                           |
| Tone Control             | Front 2 ch                    |
| Sound Delay (Lip Sync)   | Yes (800 ms)                  |
| Speaker A/B              | Yes                           |
| Bi-Amp                   | Front Channel                 |

#### ▼ VIDEO PROCESSING

|                                  |            |
|----------------------------------|------------|
| 4K 60p Ultra HD Passthrough      | Yes        |
| 4K Ultra HD Passthrough          | -          |
| 4K 60p Ultra HD Video Scaler     | Yes        |
| 4K Ultra HD Video Scaler         | -          |
| 3-D Ready                        | Yes        |
| Audio Return Channel             | Yes        |
| HDMI 36-bit Deep Color x.v.Color | Yes<br>Yes |
| Video Converter to HDMI          | -          |
| Video Scaler                     | -          |
| Stream Smoother                  | -          |
| Pure Cinema                      | -          |
| Super Resolution                 | Yes        |
| Video Parameter Adjustments      | -          |

#### ▼ CONNECTIVITY

|                     |                                |
|---------------------|--------------------------------|
| HDMI Input / Output | 6 (5 Rear, 1 Front) In / 1 Out |
|---------------------|--------------------------------|

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Front Input / Output             | 0 (0 Rear), 1 (Front In), 1 (Out) |
| MHL 2                            | 1 (Rear)                          |
| Wi-Fi Built-In                   | Yes (5GHz/2.4GHz)                 |
| Bluetooth Built-In               | Yes                               |
| HDBaseT Compatible               | -                                 |
| Component Video Input / Output   | -                                 |
| iPhone / iPod / USB Memory Input | Front USB                         |
| Ethernet Input                   | Yes                               |
| Composite A/V Input / Output     | 2 In                              |
| Analog Audio Inputs / Output     | 2 In                              |
| Phono Input                      | -                                 |
| Digital Inputs / Output          | 2 In (Optical 1, Coaxial 1)       |
| Pre-Amp Outputs                  | 0.2 ch                            |
| Headphone Output                 | Yes                               |
| Front A/V Inputs                 | USB                               |
| AM/FM Presets                    | 63                                |

## ▼ INSTALLATION

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Home Menu                       | Icon-based Graphical User Interface (GUI) |
| Multi-Room and Source Output    | -                                         |
| Zone 2 Sources                  | -                                         |
| Zone 3 Sources                  | -                                         |
| ECO Mode                        | Eco Mode 1/Eco Mode 2                     |
| HDMI Speaker B Link             | Yes                                       |
| 12 Volt Trigger (Assignable)    | 1 (150 mA)                                |
| RS-232C                         | Yes                                       |
| IR Serial Remote In/Out         | 1 In / 1 Out                              |
| Network Firmware Update         | Yes                                       |
| AVNavigator                     | Built-in                                  |
| IP Control for CI               | Yes                                       |
| Versatile Speaker Configuration | Speaker B / Bi-Amp                        |
| FL Dimmer                       | Yes                                       |

|                       |                              |
|-----------------------|------------------------------|
| FL Dimmer             | yes                          |
| Function Rename       | Yes                          |
| Remote                | <i>System Remote Control</i> |
| Sleep Timer           | Yes                          |
| Detachable Power Cord | -                            |

▼ CONSTRUCTION

|                                    |                          |
|------------------------------------|--------------------------|
| Front Panel                        | <i>Brushed</i>           |
| Transformer Stabilizer             | -                        |
| Advanced Direct Construction       | -                        |
| Speaker Terminals                  | <i>5 Large + 2 Clips</i> |
| 3D Space Frame Construction        | -                        |
| Low Leakage Flux Power Transformer | -                        |

▼ DIMENSIONS

|                                          |                          |
|------------------------------------------|--------------------------|
| W x H x D (inches)<br>Wi-Fi Antenna's Up | <i>17.1 x 9.4 x 13.1</i> |
| W x H x D (inches)                       | <i>17.1 x 6.6 x 13.1</i> |
| Weight                                   | <i>19.2 lbs.</i>         |