AMPLIFICATION AND BUILD
- 80 Watts x 7 Direct Energy Amplification (20Hz – 20kHz, 8 ohms, 0.08% THD – FTC)
- Stream Direct Mode
- High Gloss Black Finish

AUDIO FEATURES
- Freescale™ Digital Core Engine
- Dolby® TrueHD, Dolby Digital Plus, Dolby ProLogic IIz, DTS-HD® Master Audio / High Resolution Audio
- Advanced MCACC (Auto Room Calibration)
  - Symmetric 9-Band EQ
  - Standing Wave Control
  - Auto Crossover
- 192 kHz / 24-Bit DAC (106 dB S/N)
- 96 kHz / 24-Bit ADC (102 dB S/N)
- Jitter Reduction PLL Circuit
- Phase Control
- WMA9 Pro Decoder
- DTS Neural Surround
- PQLS 2-Channel Audio for CD (Precision Quartz Lock System)
- Advanced Surround Sound (13+1 Modes)
- Wide Surround
- Front Stage Surround Advance (Focus, Wide)
- Headphone Surround
- Virtual Surround Back and Height
- Multi-Channel Auto Level Control
- Dialogue Enhancement
- Multi-Channel Advanced Sound Retriever
- Sound Retriever AIR for Enhanced 2-Channel Playback via Bluetooth®
- Digital Noise Reduction
- Midnight Listening Mode
- Sound Delay (Lip-Sync)

VIDEO FEATURES
- HDMI® (V1.4a with 3D)
- 1080p Video Scaler for Analog and HDMI to HDMI Video Inputs
- Supports 36-bit Deep Color and x.v. Color
- Pure Cinema I/P Conversion
- 3D Noise Reduction (for Analog SD Input)
- Video Adjustments (SD Only) – Detail, Sharp, Hue, Chroma, Bright, Contrast

CONNECTIVITY
- Made for iPod & iPhone Certified with Front USB Featuring iPhone, iPod Touch, and iPod® Player Album Art and Full Color GUI (USB + Composite Cable Included)
- Ethernet Input for Internet Radio (24 Presets)
- Front Panel USB Memory Audio and Photo Playback
- Bluetooth Ready®
- HDMI (6 Inputs Including 1 Front Input / 1 Output)
- Digital Coaxial (2 Inputs)
- Digital Optical (2 Inputs)
- Audio In / Out (2 Inputs / 1 Output)
- A/V Composite (4 Inputs / 1 Output) Including 1 Front Input
- Component Video (2 Inputs – Assignable / 1 Output)
- SIRIUS Satellite Radio Ready®

CUSTOM CONTROL
- iControlAV App for control of receiver with iPhone/iPod Touch (available for download in the Apple App Store)®
- On-Screen Display Full Color GUI
- 2-Zone Multi-Zone and Source (Analog A/V Out for Zone 2) with OSD
- Second Zone iPod USB / Internet Radio / SIRIUS
- Internet Radio Station Input via USB-connected Keyboard
- Versatile 9.1 Speaker Configuration
- Main Room / Multi-zone Illuminated Learning Remote
- RS-232C Interface
- 12 Volt Trigger (x2 – Assignable)
- I/R (1 In / 1 Out)
- Detachable Power Cord

**Bold** denotes step-up features from VSX-30
VSX-31
7.1-Channel Elite Receiver Featuring Dolby® TrueHD, dts-HD® Master Audio, Made for iPod & iPhone Certification, and Internet Radio

CONNECTIONS
Rear Panel

PRODUCT SPECIFICATIONS
› W x H x D: 16.54" x 6.22" x 14.92"
› Weight: 22 lbs. 8 oz.

CARTON SPECIFICATIONS
› L x W x H: 20.20" x 9.69" x 19.09"
› Weight: 27 lbs. 5 oz.

UPC
› 884938109253

INTEGRATED TECHNOLOGIES

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HDMI connection may not allow transmission of copyright-protected material, depending on the capability of the signal source.
1 Optional AS-BT100 Bluetooth Adapter required and sold separately.
2 SIRIUS antenna and subscription service (each sold separately) required to receive SIRIUS radio.
3 Home network required.

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