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Tuesday, March 26, 2013

\*Do not publish this page until the release date (go live date) listed above.

## YHT-399U

**MSRP:** \$449.95

The YHT-399U is designed for ease-of-use and full-scale AV entertainment with outstanding Yamaha sound quality from a discrete amp circuit design. Included is a front panel USB input for iPhone®/iPod®, as well as a compact 5.1 channel speaker system with a powerful 8" 100 W powered subwoofer. This system is also ready for the next generation with sophisticated technologies like 4K video pass-through and ECO mode for lower power consumption.



## Features

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### YHT-399U Home Theater in a Box System

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Provides simple operation, yet includes essential capabilities for high definition home audio video enjoyment, offering popular features like USB input for iPhone and color on-screen display, as well as a 5.1 channel speaker system with a powerful 8" 100 W subwoofer. This system is also ready for the next generation with sophisticated technologies like 4K pass-through and ECO mode for lower power consumption.

### 4K Pass-through for Next Generation Super High Resolution Images

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This AV receiver provides advanced HDMI® features including 4K pass-through. 4K refers to four times the resolution of a 1080p display. This receiver is capable of passing the 4K data from the source to the display, for image clarity far beyond present standards.



## HDMI with 3D and Audio Return Channel

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3D means the receiver can handle 3D signal data. The Audio Return Channel function enables data to be sent and received via the same HDMI cable, so you can hear the sound from the TV via a single HDMI cable, with no need for an extra optical cable.

## YPAO™ Sound Optimization for Automatic Speaker Setup

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YPAO analyzes the room acoustics and adjusts various audio parameters for optimum sound in just a few minutes. It's like having a professional installer calibrate your system.



## USB Digital Connection for iPod and iPhone

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A USB port on the front panel allows convenient connection of an iPod/iPhone, which also charges when connected. Because the digital signal from the iPod/iPhone is transmitted directly to the AV receiver, there is no signal loss or interference, so you enjoy the best possible sound quality. In addition, you can use the receiver's remote control unit to operate the iPod/iPhone music playback functions.



## SCENE for One-touch Start

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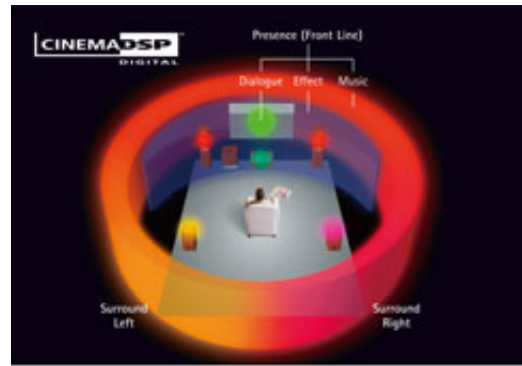
Pressing a SCENE button powers on the AV receiver and selects the input source and DSP mode. You can reset the buttons for different sources by selecting a source and DSP mode, then pressing a SCENE button for more than three seconds.



## Surround Realism HD Audio with CINEMA DSP

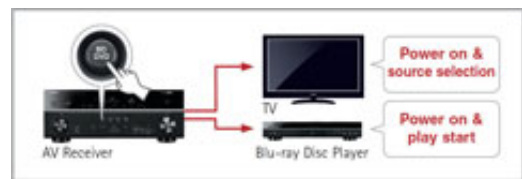
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Yamaha's exclusive CINEMA DSP technology supports playback of HD Audio (Dolby® TrueHD, DTS-HD Master Audio™, etc.), providing natural and expansive sound imaging.



## HDMI CEC for Easy Operation

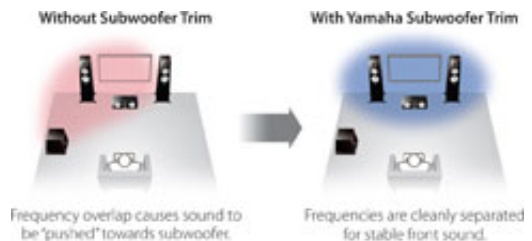
Another benefit of HDMI is the availability of CEC functionality. When the unit is connected to a CEC compatible TV, it will turn on and off together with the TV, and you can use the TV remote to control the volume. CEC also provides advanced functionality with other components. For example, you can use the receiver's remote unit to control player functions like skip and stop.



\*All connected devices must be HDMI CEC compatible. Some CEC compatible TVs/players may not work.

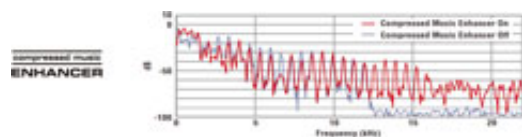
## Subwoofer Trim for Improved Sound Imaging

The Subwoofer Trim Control enhances the low frequencies by avoiding overlap with the front speaker output. This will result in a cleaner, more focused sound stage while providing a seamless frequency response. When subwoofer frequency overlap occurs in conventional systems, the overall sound is "pushed" toward the subwoofer. Subwoofer Trim Control takes care of this by separating the low subwoofer frequencies cleanly, thus stabilizing the front stage while providing a well-balanced enhanced bass sound.



## Compressed Music Enhancer

When music is encoded into a digitally compressed format like MP3, the frequency response suffers. Yamaha's Compressed Music Enhancer employs sophisticated digital signal processing using exclusive algorithms to restore what was lost, so the music always sounds the way it should.



## Adaptive DRC (Dynamic Range Control)

Adaptive DRC automatically adjusts the dynamic range of the sound according to the volume level. This ensures that you hear clear dialogue and vocals, and all sound effects at comfortable levels. There is no need to adjust the volume level as you listen; everything from whispers to big explosions will be heard

clearly and comfortably at the same volume setting. It also tones down loud TV commercials, and is ideal for low-volume, late-night listening when you do not want to disturb others.

## ECO Mode Lowers Power Consumption by 20 Percent\*

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Yamaha's new ECO mode reduces power consumption by about 20 percent. It can be set from the top of the GUI menu.

\*Compared to power consumption when ECO mode is off (Yamaha measurement).



## Selectable Auto Power Down

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Auto Power Down lets you save energy by selecting to turn off the power after two, four, eight or 12 hours.



## Low Standby Power Consumption

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Yamaha makes its receivers eco-friendly with a low standby power consumption of 0.3 W.

## Other Notable Video Features

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- Supports Deep Color (30/36 bit), x.v.Color, 24 Hz refresh rate and auto lip-sync compensation

## Other Notable Advanced Features

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- iPod/iPhone song titles displayed in English and Western European languages on the front panel
- Multi-language color OSD for improved visibility
- Front panel mini-jack input for connecting portable audio player
- Audio input assign capability for HDMI and component video input
- Nine selectable subwoofer crossover frequencies
- Subwoofer phase select / subwoofer out
- Initial volume setting and maximum volume setting
- Audio delay for adjusting lip-sync (0-250 ms)
- 40-station preset tuning / auto preset tuning
- Background video feature (for radio only)

## Other Notable Surround Realism

- SILENT CINEMA™ and Virtual CINEMA DSP

## Specs

### AV Receiver

Model		HTR-3066
Amplifier Section	Channel	5.1
	Rated Output Power (1kHz, 1ch driven)	100 W (8 ohms, 0.9% THD)
	Rated Output Power (20Hz-20kHz, 2ch driven)	70 W (8 ohms, 0.09% THD)
	Dynamic Power per Channel (8/6/4/2 ohms)	110/130/160/180 W
Surround Sound Processing	CINEMA DSP	Yes
	DSP Programs	17
	Compressed Music Enhancer	Yes
	SILENT CINEMA / Virtual CINEMA DSP	Yes
	Dolby TrueHD	Yes
	Dolby Digital Plus	Yes
	DTS-HD Master Audio	Yes
Audio Features	YPAO sound optimization	Yes
	Adaptive DRC (Dynamic Range Control)	Yes
	Initial Volume & Maximum Volume Setting	Yes
	Audio Delay	Yes (0-250 ms)
	192kHz/24-bit DACs for all channels	Yes (Burr-Brown)
Video Features	HDMI 3D passthrough	Yes
	HDMI Audio Return Channel	Yes
	Deep Color/x.v.Color/24Hz Refresh Rate /Auto Lip-Sync	Yes
	4K Pass-through	Yes
Extensive Connection	HDMI Input/Output	4 / 1

	HDMI CEC	Yes
	USB Input	iPod/iPhone, USB memory, portable audio player
	Front AV Input	USB/Mini-jack/Composite
	Digital Audio Input/Output: Optical	2 / 0
	Digital Audio Input/Output: Coaxial	2 / 0
	Analog Audio Input/Output	4 (front 1) / 2
	Component Video Input/Output	2 / 1
	Composite Video Input/Output	4 (front 1) / 1
	Preout	Subwoofer
	Headphone Output	1
Tuner Section	FM/AM Tuner	Yes
User Interface	On-screen display	Yes (Color OSD)
	SCENE	SCENE (4 sets)
	Remote Control Unit	Yes
General	ECO mode	Yes
	Standby Power Consumption (IR only)	≤0.3 W
	Auto Power Standby	Yes
	Dimensions (W x H x D)	17-1/8" x 6" x 12-3/8"
	Weight	16.3 lbs.

## Speakers

Model		NS-AP2600BL
Cabinet Type		Plastic
Front Speakers	Speaker Size	2-1/2" woofer and 1/2" tweeter
	Dimensions (W x H x D)	4" x 6-3/8" x 4" (each)
	Weight (lbs.)	1.6 lbs. (each)
Center Speaker	Speaker Size	Dual 2-1/2" woofer and 1/2" tweeter
	Dimensions (W x H x D)	11-7/8" x 4" x 4"
	Weight (lbs.)	2.6 lbs.
Surround Speakers	Speaker Size	2-1/2" woofer and 1/2" tweeter
	Dimensions (W x H x D)	4" x 6-3/8" x 4" (each)

	Weight (lbs.)	1.6 lbs. (each)
Subwoofer	Model	YST-SW012NPBL
	Power Output	100 W
	Driver Size	8" cone
	Dimensions (W x H x D)	11-3/8" x 11-3/8" x 12-7/8"
	Weight (lbs.)	18.7 lbs.

## Technology

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### Dolby TrueHD



Dolby® TrueHD is Dolby's next-generation lossless technology developed for high-definition disc-based media. Dolby TrueHD delivers tantalizing sound that is bit-for-bit identical to the studio master, unlocking the true high-definition entertainment experience on next-generation discs. When coupled with high-definition video, Dolby TrueHD offers an unprecedented home theater experience that lets you enjoy sound as stunning as the high-definition picture.

### dtsHD



DTS-HD® featured products have the ability to decode all streams required for DTS-HD Master Audio™ but may have limitations in channel output and/or sampling frequency; or may utilize unique post processing.

### HDMI

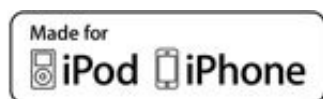


HDMI (High-Definition Multimedia Interface) is the first and only industry-supported, uncompressed, all-digital audio/video interface. With the ability to deliver crystal-clear, all-digital audio and video via a single cable, HDMI dramatically simplifies cabling and helps provide consumers with the highest-quality home theater experience. HDMI can provide an interface between most audio/video sources, such as a set-top box, Blu-ray Disc player, DVD player or AV receiver and a video monitor, such as a High-Definition Television (HDTV), over a single cable.

Depending on the model of product, HDMI can support standard, enhanced or high-definition video, plus multi-channel digital audio on a single cable. It can support all currently-available compressed audio formats (such as Dolby Digital and DTS) and most newer HDMI devices can support lossless digital audio formats like Dolby® TrueHD and DTS-HD Master Audio™.

(View the specifications of each product for details on HDMI compatibility.)

### Made for iPod and iPhone



Look for the "Made for iPod and iPhone" logo to find electronic accessories designed to connect specifically to an iPod or iPhone and certified by the developer to meet Apple performance standards.

### 4K Pass-Through

4K pass-through receives super high-def resolution video and passes it to a 4K compatible monitor. This ensures compatibility with the latest super high resolution video formats.

## 4K Pass Through

### CINEMA DSP Digital

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Conventional multichannel audio reproduction systems base their sound on Dolby Digital and DTS decoding, using matrix and steering technologies to create surround sound effects. Yamaha CINEMA DSP is much more advanced, actually creating richly realized independent sound fields that envelop you in an unmatched surround sound experience. With dialogue, music and effects from ideally located in these separate sound fields, you will hear sound with accurate placement, smooth movement, exceptional clarity and richness, and startlingly realistic presence. It will seem as if the walls of your room have disappeared and you are in the middle of your own immense theater! The decoding circuitry performs Dolby Pro Logic IIx, Dolby Digital, Dolby Digital EX, DTS Digital Surround, DTS-ES (DTS-ES Matrix 6.1 and DTS-ES Discrete 6.1), DTS Neo:6 and DTS 96/24 decoding with extreme accuracy, as well as all digital sound field processing.

### SILENT CINEMA

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SILENT CINEMA makes it possible to hear large-scale surround sound through ordinary headphones! This is a variation of CINEMA DSP technology that Yamaha developed to let you listen in private to movies and other multi-channel sources for hours without listening fatigue.

### Compressed Music Enhancer

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Yamaha employs sophisticated digital signal processing with exclusive algorithms to enable playback that improves the performance of compressed music formats, including MP3 and WMA. With the Compressed Music Enhancer, highs and especially lows are richer and smoother, bringing music back to life to be as close to the original as possible.

### SCENE – A NEW LEVEL OF OPERATING EASE

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Four SCENE buttons make operating the receiver easier than ever. They are initially set to default settings for DVD viewing, disc listening, TV viewing and radio listening. Pressing a SCENE button automatically launches a number of operations that initiate play of the source controlled by that button. Other SCENE settings are also available, such as iPod listening, XM listening, TV sports viewing and action game playing. Browsing and selecting the settings is quickly accomplished by changing Input via the front panel and watching the on-screen display. The settings can be selected for one-time use or they can replace the original default settings. The SCENE names can be changed, too.

### YPAO Automatic System Calibration

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Yamaha's YPAO system uses a small microphone and sophisticated equalization to automatically set the best sound for any room, no matter where the speakers are. First it checks the speaker connections and phase of each speaker. Then it sends out tones which are captured by the microphone to analyze the room acoustics and sets a variety of parameters, such as the speaker size, the distance of the speakers and even the sound pressure level, etc. Until it achieves the best sound conditions for your room and you don't have to do anything!

### ECO mode

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## ECOmode

ECO mode reduces power consumption by about 20%\*. It can be set easily from the top of the GUI/OSD menu.

\*Compared to power consumption when ECO mode is off. (Yamaha measurement).

## 3D

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Yamaha receivers displaying this icon support 3D HDMI pass-through from 3D-compatible Blu-ray Disc, game and broadcast devices to 3D-compatible HDTVs. 3D provides a more engaging audio and video consumer experience when using 3D-capable products and 3D media content. Note that special eyewear may be required for viewing 3D content.

## Advanced YST

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performance.

Advanced Yamaha Active Servo Technology (Advanced YST) is a unique system in which the speaker and amplifier work together to cancel out impedance so the speaker unit has a perfectly linear motion. Advanced YST helps to ensure the highest levels of sound pressure and overall