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Sony showcases in-car audio excellence at IFA 2015

At IFA 2015 Sony went yet another step further to prove that Hi-Res Audio is a true standard for acoustic luxury in all listening environments. Sony showcases its new in-car Hi-Res Audio line-up including the RSX-GS9 head unit, XM-GS4 4ch amplifier, XS-GS1 Super tweeter, XS-GSW121D subwoofer, XM-GS100 mono amplifier, XS-GS6921 rear speakers^[1] and XS-GS1621 front speakers. Visitors to this year's IFA will be immersed into an in-car audio listening experience beyond CD quality including the World's First^[2] native DSD playback.

Supreme Acoustic Enjoyment with Hi-Res Audio

As the pinnacle of audio quality, Hi-Res Audio refers to sound quality that uses more sampling points than those of a CD. This form of digital lossless capture and playback delivers a rich, full, yet crystal clear sound otherwise only found in original sources in the recording studio.

To really pay respect to the beauty of Hi-Res Audio, Sony focused its design and manufacturing to exclusively include components that create the best sound reproduction, while minimising electro-magnetic noise and vibration. It is this marriage between High-Res Audio and attention to detail that make this in-car audio system a true work of art.

RSX-GS9 digital media player – Where attraction turns into fascination

Sony's RSX-GS9 in-car digital media player brings to you the most premium driving experience yet. This is most obvious in the RSX-GS9's internal design which facilitates the unit's ability to reproduce the most breath-taking soundstages. A super rigid, dual-layer chassis makes for an anti-resonance, low interference design. The high-end components – from the operational amplifiers to the clock generator - have been put together to maximise sound clarity and quality, while minimising negative impacts from the harsh vibration experienced in a typical in-car setting. Most notably, Sony incorporated the ES9018S, the world's highest performance 32-bit audio D/A converter by ESS Technology, Inc. The D/A converter translates your music files to analogue signals in an impressive dynamic range of up to 135dB and THD+N (Total harmonic distortion and noise) of -120dB to deliver a clarity and presence that can only be rivalled by live performances in concert halls or recording studios.

Listening to uncompressed music files is the best way to do this device justice. In fact, the RSX-GS9 is the world's first car audio player that is natively compatible with DSD (5.6MHz/1bit, 2.8MHz/1bit), an audio format that reproduces music with unprecedented accuracy. If you have a library of MP3s then Sony's DSEEHX™ (Digital Sound Enhancement Engine) upscales your music to near Hi-Res Audio quality so you are sure to maximise your enjoyment no matter which format your music is stored in.

This acoustic superlative is mirrored by the media player's sleek outer design to complete your unrivalled listening experience as the front panel features a clean, single-shell design made from fully machine-cut, hairline-finished

14mm aluminium and is complemented by an easily visible OLED display, backlit selection keys and a large aluminium trimmed volume dial that seamlessly fits in the middle on the panel.

Advanced connectivity features such as LDAC™ supported Bluetooth®/ NFC™ in connection with Sony's SongPal™ App[\[3\]](#), two USB (Type A) slots and a USB micro-B (USB DAC) ensure that you can play your music from any media storage, including your smartphone, USB flash drive, or mp3 player.

XM-GS4 4ch amplifier – Fine detail across the whole spectrum

Sony's new XM-GS4 4-channel amplifier is another key component for the ideal Hi-Res sound reproduction as it transforms low-power audio signals into gigantic sonic waves that let you dive into your musical pleasures. With its incredibly wide frequency response from 10Hz all the way up to 100kHz it consistently delivers powerful, voluminous tones that can be further adjusted to your liking thanks to variable low pass / high pass filters that allow for easy optimisation of cross-over frequencies to perfectly match your system configurations.

XS-GS1 super tweeter – Bringing your music to life

No audio system is complete without speakers that bring your music to life. When it comes to ultra-high frequency sound, Sony's premium XS-GS1 25mm soft dome super tweeter is the ideal addition to realise the Hi-Res Audio experience in your car, as they easily cope with superior frequency ranges reaching 50kHz.

While these high frequency sounds have a very narrow transmission field, the XS-GS1 focuses on maximising their dispersion throughout the entire car. In terms of design, wide-open grill nets and the smoothly sloped front baffles maximise the speaker's sound radiation properties. In addition, the XS-GS1's can be installed to face the windshield rather than the listener, thereby increasing the dispersion and quality of high pitched notes to smoothly deliver those charming, delicate highs that accentuate a harmonic, soulful sound.

The Hi-Res Audio capabilities are not only recognised through the ultra-high sounds, but the astonishing dynamic range, the resolution of the emitted sound, and the smooth fluctuation of the sound pressure through all frequency ranges. This is perfectly performed with the GS series full range speakers (XS-GS1621) and subwoofer (XS-GSW121D) driven by the mono amplifier (XM-GS100), utilizing Sony's original Mica Reinforced Cellular (MRC) and MRC honeycomb diaphragms.

Sony's in-car Hi-Res Audio line-up will be available from January 2016. For more information please visit sony.co.xx.

– Ends –

Selected technical specifications

			RSX-GS9
General Features		Pre Out	Front/Rear/Sub
High Voltage Pre Out	Yes		
Sub Out	Yes		

Sub-Woofer adjust (LEVEL)	Yes		
Sub-Woofer Phase	Yes		
Aux-In	Yes(Front, Rear(Hi-level in))		
USB	Yes(Type A: for Front/Rear, Micro-B for Front)		
Time Alignment	Yes (Adjustable for DSD, PCM)		
EQ	Yes(EQ10)		
Sound Adjustment Features	Loudness, Balance, Fader		
High Pass Filter	Yes(OFF/50/63/79/99/125/158/198/250[Hz])		
Low Pass Filter	Yes(PCM:OFF/50/63/79/99/125/158/198/250, DSD:OFF/150[Hz])		
Digital Sound Enhancement Engine HX (DSEE HX)	Yes		
Tuner Feature	Preset	FM18/MW6/LW6	
AUX in Feature	Level Adjustment	Yes(-8dB - +18dB)	
Display Panel	Display Device (LCD/FL/OLED/TFT)	OLED (with acryl, Monochrome)	
Key Illumination	Yes		
Dimmer Adjust	ON/OFF/AUTO		
Optical output	Yes(96kHz, 48kHz)		
Remote Input	Yes		
Music Player Direct Connectivity	Music player Control Feature	Basic Control Features	Pause, Resume (Depend on Music player)

CODEC (for iPod)	Depend on iPod		
Passenger Control for iPhone/iPod	Yes(Always ON)		
Bluetooth Features	Bluetooth Specifications	Version	3.0
Secure Simple Pairing	Yes		
NFC One-touch connection	Yes		
Smartphone Connectivity Feature	Advanced Smartphone Menu Navigation	No	
RF ON/OFF	Yes		
Echo/Noise Cancellor	Yes(Mode1/Mode2)		
Ring Alert Select	Yes(Internal/Cellular)		
Ring Volume Level Control	Yes		
Call Volume Level Control	Yes		
Mic Gain Adjustment	Yes(Low/Middle/High)		
Voice Control	No		
External Microphone	Supplied		
Supported Applications	SongPal (iOS), SongPal (Android)		
Bluetooth Audio Feature	Audio Codec	SBC/AAC/LDAC	
Pause	Yes		
Cue/Rev	Yes		
Track +/-	Yes		

Audio Level Adjustment	Yes(-6dB - +6dB)		
USB Features	USB-capable	USB Mass Storage Device	Yes
Battery Charge	USB BC1.2 Compliant		
USB Mass Storage Device Control Feature	Repeat	OFF/TRACK/ALBUM/ALL(Controllable by APP or Remote)	
Shuffle	OFF/ALBUM/DEVICE(Controllable by APP or Remote)		
CODEC (for USB)	MP3/WMA/WAV/AAC/FLAC/ALAC/AIFF/DSF/DSDIFF		
Sampling Frequency Bit Depth	Up to 192kHz/24bit for WAV/FLAC/AIFF/ALAC/2.8MHz/1bit for DSF/DSDIFF *DSD☒PCM convert		
List Browsing (Folders/Files)	Yes (Controllable by SongPal™)		
USB DAC feature	Sampling Frequency Bit Depth	Up to 192KHz/24bit for PCM 5.6MHz/1Bit, 2.8MHz/1Bit for DSD	
DSD Data Interface	DoP, ASIO Native		
Native DSD Playback	Yes		
Gapless Playback	Yes		
Specifications chart	Tuning Range	FM (MHz)	87.5-108
MW (kHz)	531-1602		
LW (kHz)	153-279		
			XM-GS4
Amplifier main		Channel Configuration	4ch/3ch/2ch

High Pass Filter	50-300Hz(Variable)	
Slope : High Pass Filter	12dB/Oct	
Low Pass Filter	50-300Hz(Variable)	
Slope : Low Pass Filter	12dB/Oct	
Rated/THD(14.4V, 20Hz-20kHz)	At 4 Ohms	70W×4/1.0 %
At 4 Ohms-BTL	160W×2/ 1.0% (1kHz)	
At 2 Ohms	80W x 4 / 1.0% (1kHz)	
Maximum(14.4V)	At 4 Ohms	150W x 4
At 4 Ohms-BTL	350W x 2	
At 2 Ohms	175W x 4	
(GP1)	Frequency Response	10-100 k Hz
Tolerance	+0.5/-3dB	
Signal to Noise ratio(S=Rated output)	100dB	
Total Harmonic Distortion(1kHz)	0.05%	
CEA Power Output	70W×4	
CEA SN Ratio	93dBA	
(GP2)	Input: Speaker Level Input	Yes
MOSFET: Output Stage/Power Supply	No/Yes	
Subsonic High Pass Filter	Yes	
Bass Boost	40Hz, 0-10dB	
Line in: Input Sensitivity(V)	0.3-6	
Gold plated connectors	Yes	
Load Capability: 1 Ohm/20hm	No/Yes	
Current Drain(Rated Output Power at 4Ohms)	33A	
Weight(kg) Approx.	2.7 kg	
Dimensions (WxHxD in mm) Approx.	272 × 51 × 202	
Illumination	White	

		XS-GS1
Feature	Size	2.5cm
Speaker/SW system	Super Tweeter	
Est.Peak power	320W	
Est. CEA 2031 RMS Power	120W	
Est.Rated Power	75W	

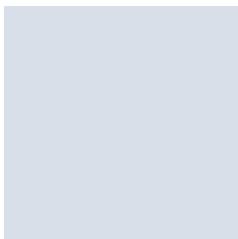
[1]Displayed for showcase purposes only. Not available in Europe.

[2]As of September 2015

[3]SongPal can be downloaded for your Android and iOS devices from Google's Marketplace as well as Apple's App Store.

Sony Corporation is a leading manufacturer of audio, video, game, communications, key device and information technology products for the consumer and professional markets. With its music, pictures, computer entertainment and online businesses, Sony is uniquely positioned to be the leading electronics and entertainment company in the world. Sony recorded consolidated annual sales of approximately \$68 billion for the fiscal year ended March 31, 2015. Sony Global Web Site: <http://www.sony.net/>

Contacts



Sony Europe PR Team

Press Contact

PR Team

press@eu.sony.com