

Alpine Status

Product Information

Technologies & Features

Specifications

SUPERIOR PERFORMANCE FOR

REAL SOUND ENJOYMENT

It's every driver's dream while on the road: enjoying an overwhelming feeling of realistic sound quality with your favorite music from your favorite media. Now Alpine lets you make this dream come true. Based on our five decades of experience in creating the finest quality car audio products, and on our ultra-high-end AlpineF#1Status system technologies, we present Alpine Status. Components that deliver a level of audio performance far superior to any other brands on the market, with music streaming at the highest 192kHz/24bit quality. The amazing purity and resolution of the sound takes your music enjoyment to a whole new level.



SOUND I SUPERIORITY

THE BEST POSSIBLE SOUND QUALITY VIA DIRECT SMARTPHONE CONNECTION

Streaming from a smartphone is now the most popular way to enjoy music, but sound quality leaves a lot to be desired. Alpine Status overcomes this problem by providing the highest possible quality via direct USB cable connection* from any level of streamed audio, up to hi-res 192kHz/24bit, so you actually hear the original recorded sound purity. What's more, you can also enjoy the music that you've downloaded to your device at super high quality (up to 192kHz). You'll definitely hear the difference—your music will not only sound clearer, it will be more dynamic and "live" than anything you're used to in a vehicle. You'll appreciate your favorite music more than ever, and your passengers will be impressed and delighted!

* iPhone: Lightning to USB Camera Adapter; Android: USB OTG cable.



THE SAME GREAT SOUND QUALITY FROM USB MEMORY DEVICES AND DIGITAL AUDIO PLAYERS

After you download and manage your music on your computer, you can transfer it to a USB memory stick and play it at the best possible sound quality. If you use a portable digital audio player with a coaxial mains, you can also connect it directly.



CONVENIENT WIRELESS CONNECTION

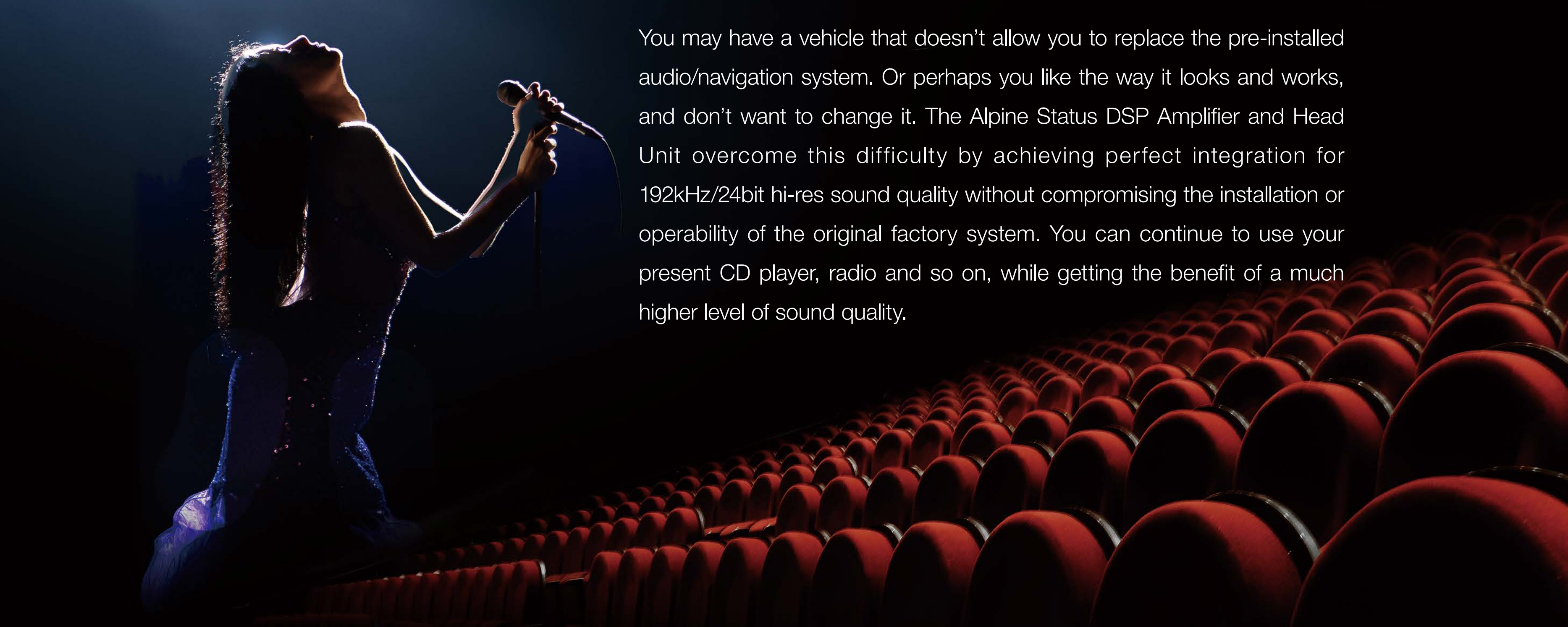
Of course, wireless connection via Bluetooth is also possible. You'll get the most popular 96kHz/24bit Bluetooth music quality with the added convenience of wireless use.



INTEGRATION II SUPERIORITY

TAKE YOUR ORIGINAL SOUND SYSTEM FROM GOOD TO GREAT

You may have a vehicle that doesn't allow you to replace the pre-installed audio/navigation system. Or perhaps you like the way it looks and works, and don't want to change it. The Alpine Status DSP Amplifier and Head Unit overcome this difficulty by achieving perfect integration for 192kHz/24bit hi-res sound quality without compromising the installation or operability of the original factory system. You can continue to use your present CD player, radio and so on, while getting the benefit of a much higher level of sound quality.



IDEAL INTEGRATION SOLUTION FOR THE MULTI-CHANNEL SPEAKER SYSTEMS IN LUXURY CARS

The Alpine Status DSP Amplifier provides up to 12 channels of analog input for the original sound system. It uses advanced time-channel subwoofer output to provide a superior, all-encompassing in-car audio environment. It also features two-channel subwoofer output for an even richer, more dynamic sound. Normally, two-channel input would be sufficient for audio purposes, but you can retain the original system capability that only a multi-channel system can provide. For example, if hands-free phone calls are played from the driver's side speaker in the original system, the Alpine Status system also plays them from the driver's side speaker. It also has the advantage that the warning sound while driving can be played from the same position as the original system.



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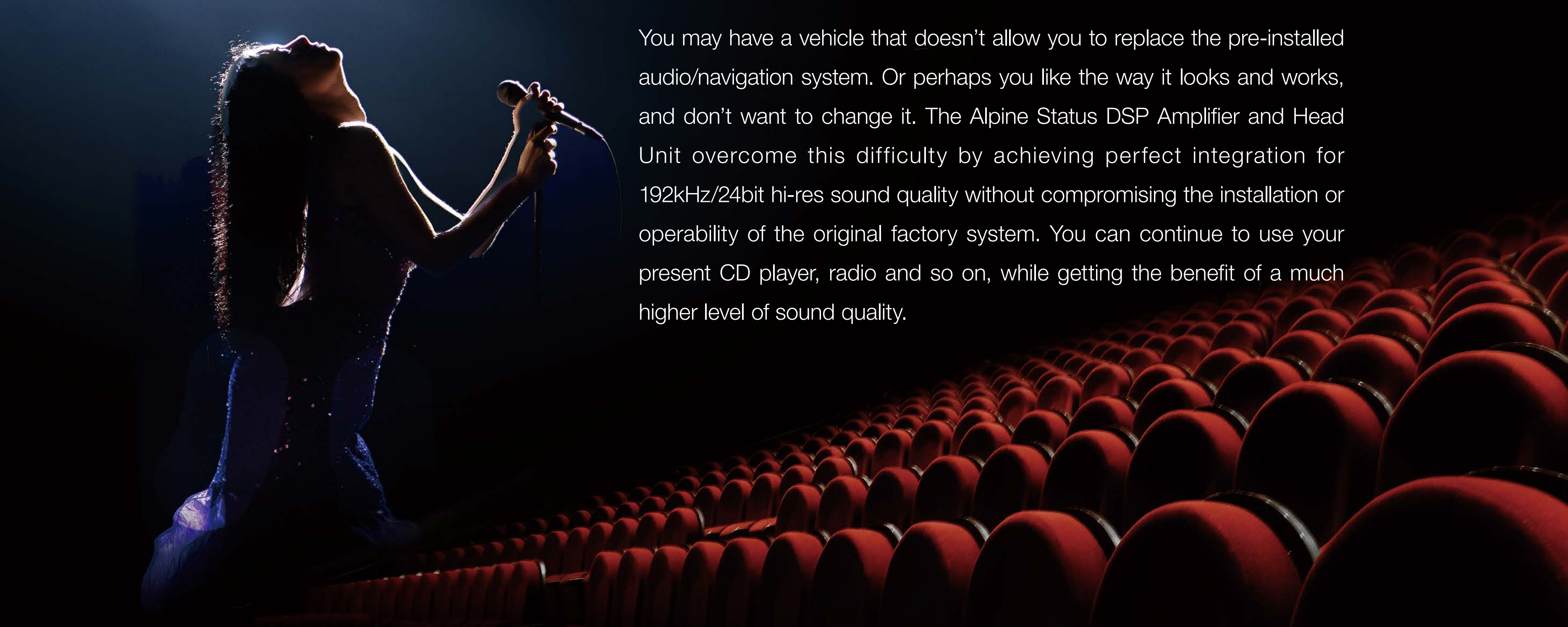
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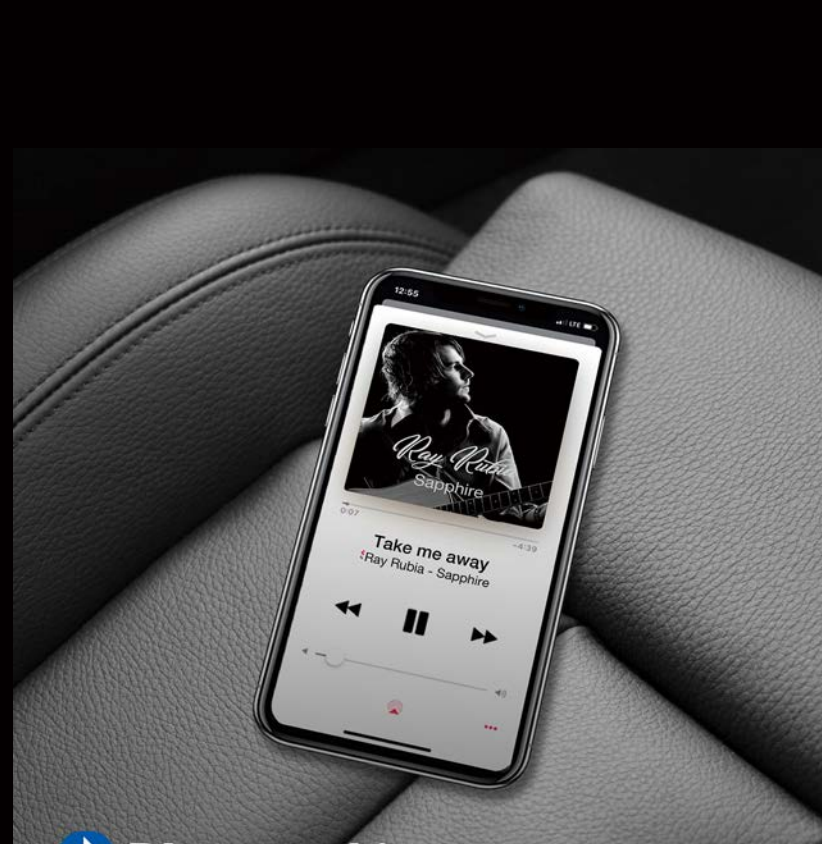
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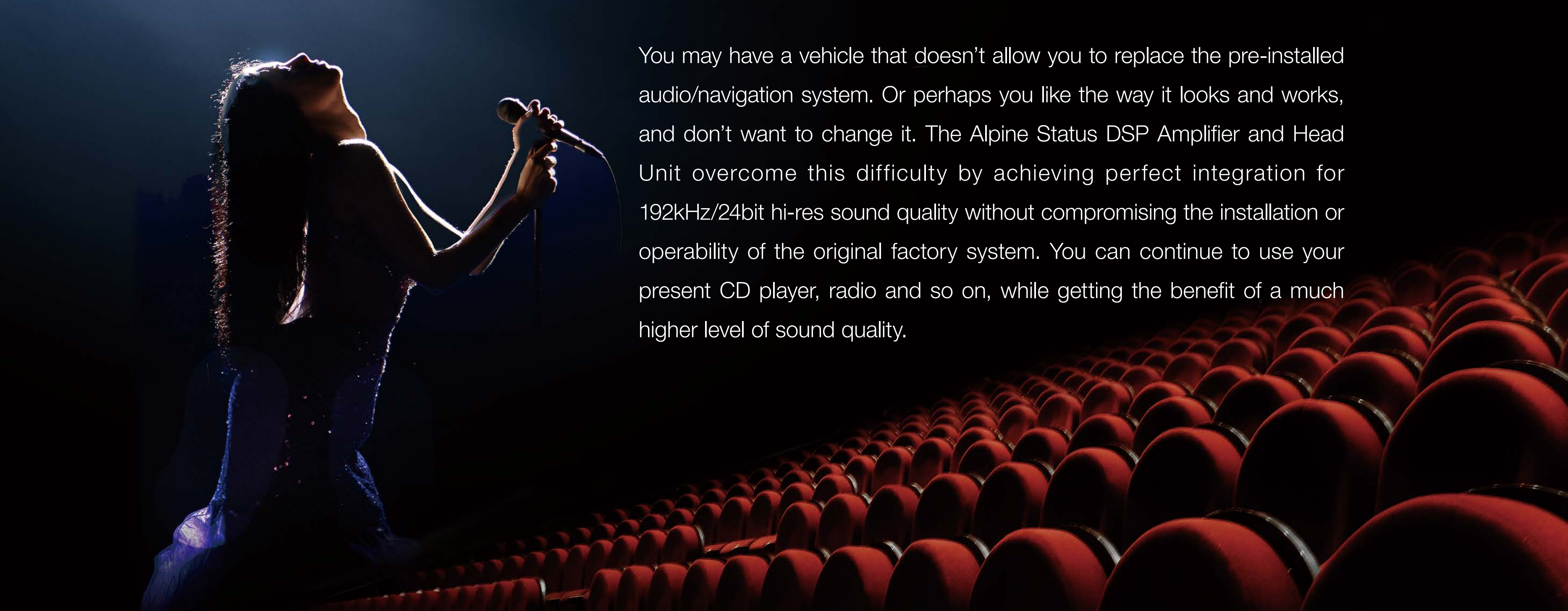
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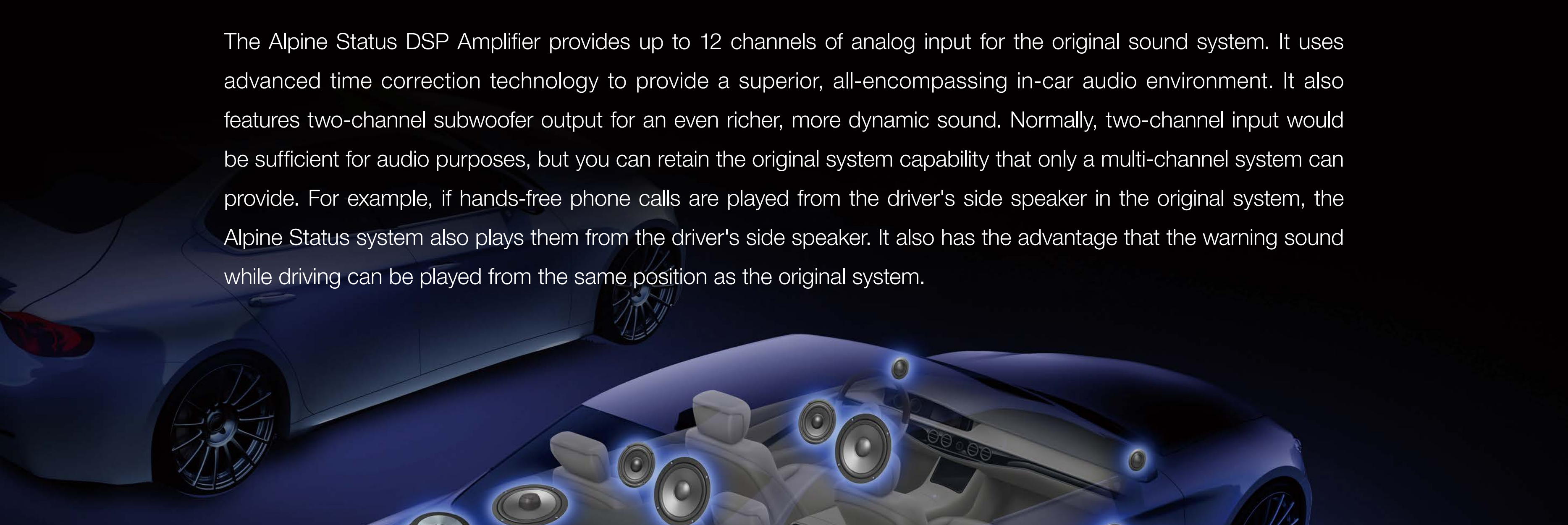
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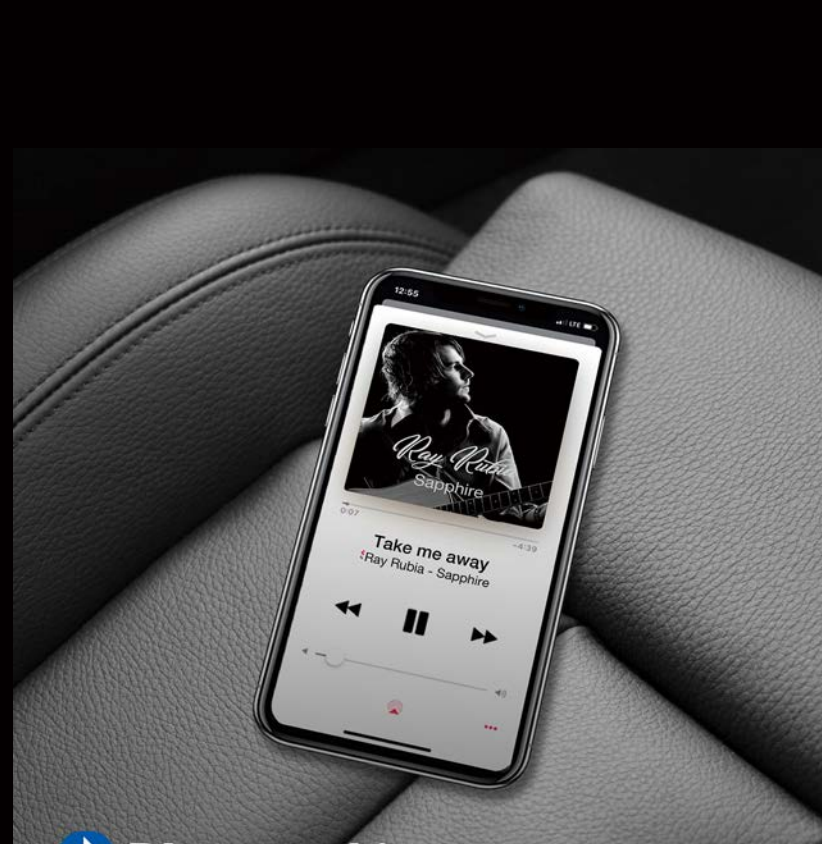
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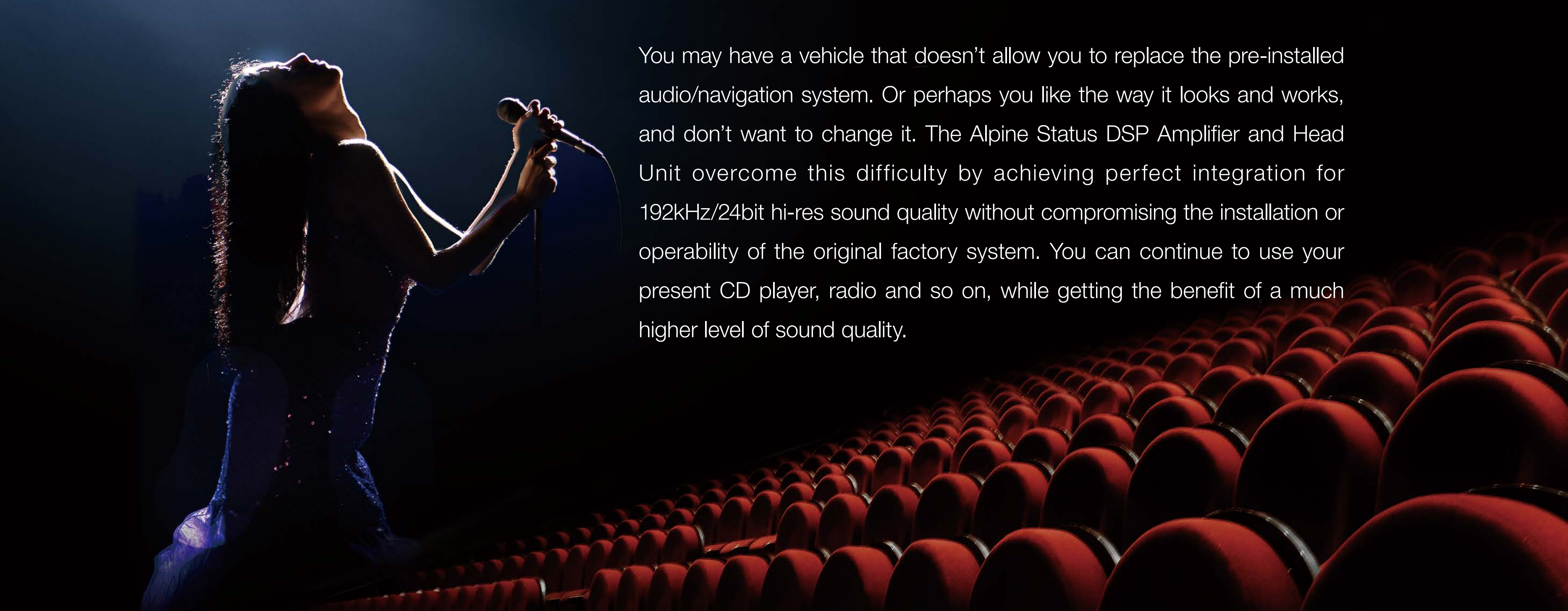
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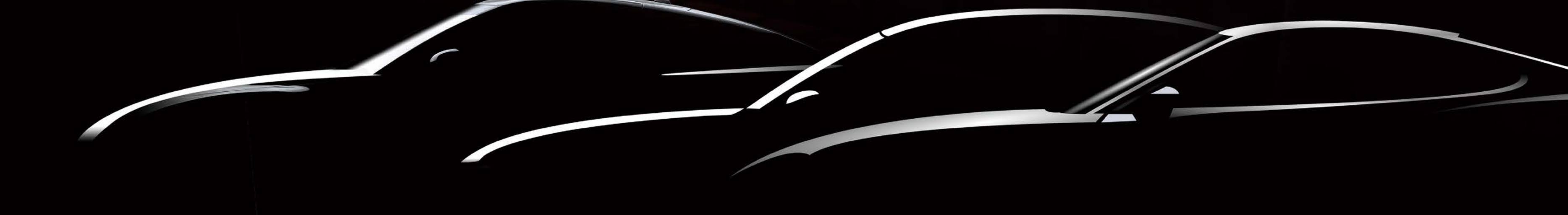
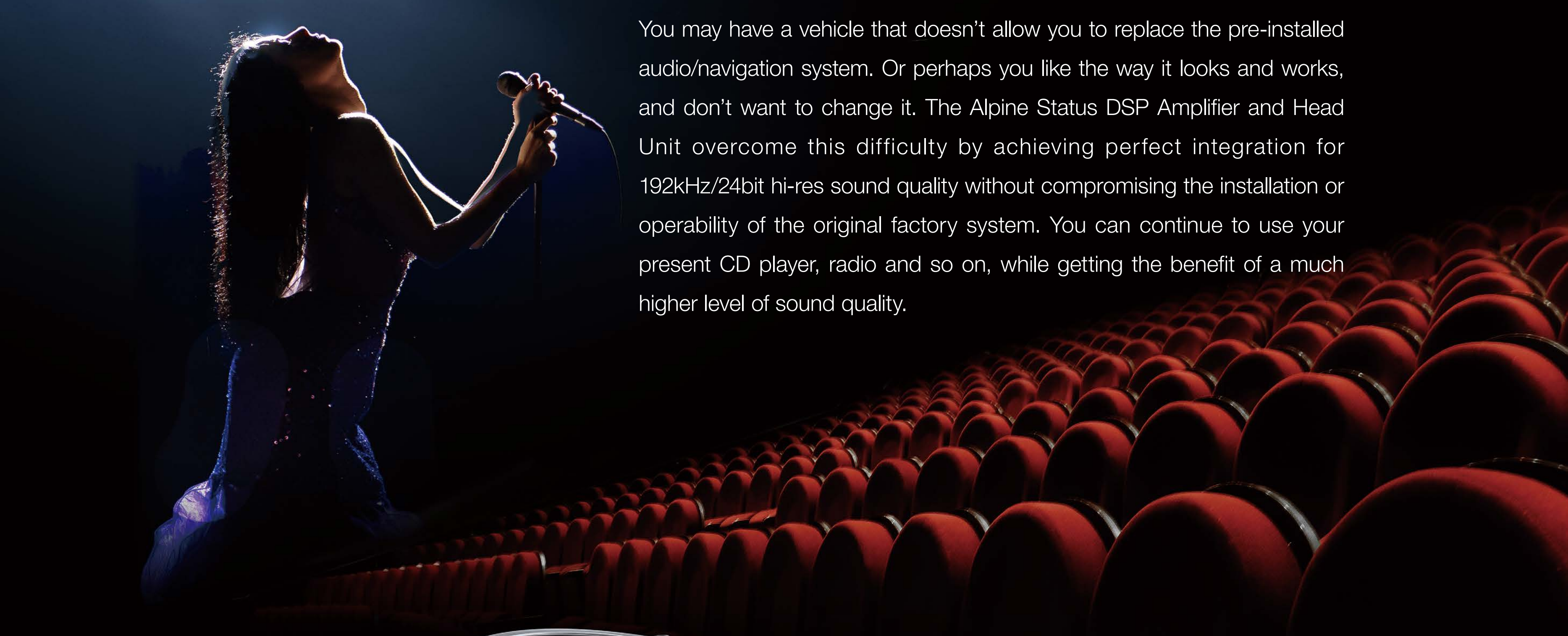
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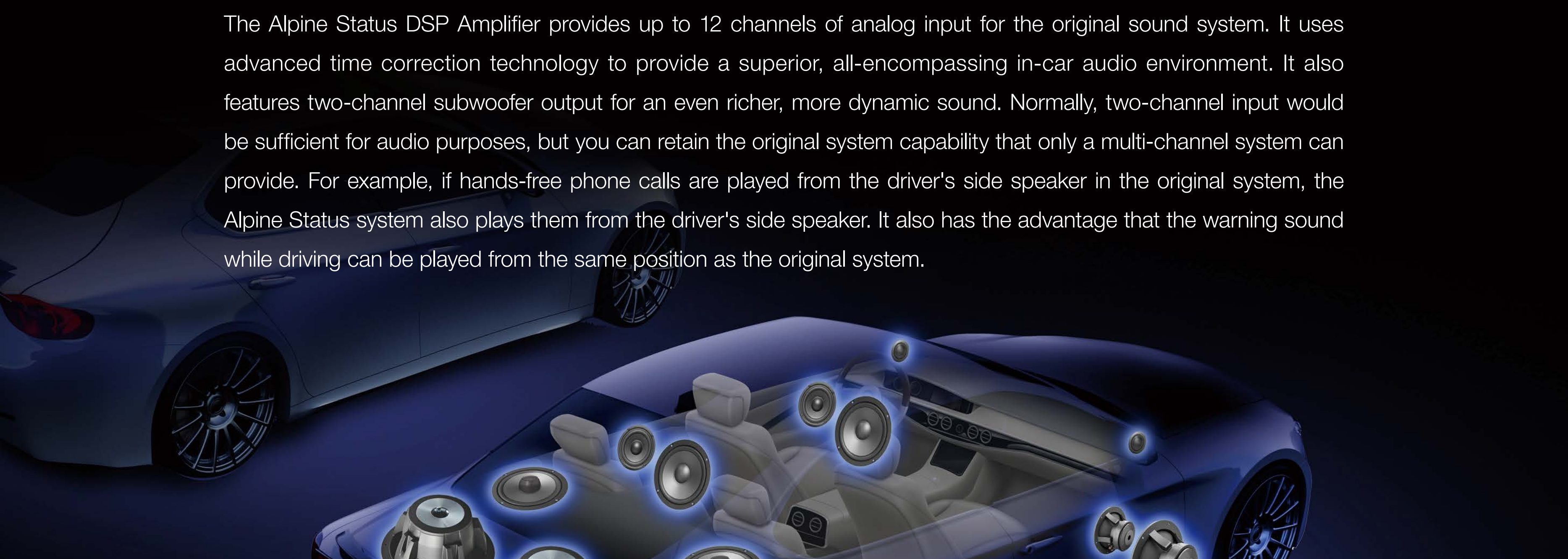
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TECHNOLOGIES & FEATURES

192kHz/24bit high-resolution sound sources, which have approximately 6.5 times the amount of musical information of a CD, record smooth analog waveforms by converting them into digital data with finer time precision and bit rate, so that more of the original analog waveform information can be recorded and reproduced. This means that the original timbre of each instrument is faithfully reproduced. What's more, the sound pressure is exceptionally high, yet distortion is minimal and the sound has a fresh quality. This is the great appeal of high-resolution sound.

Here are some of the technologies we have used in the Alpine Status system to ensure that you get the most out of your in-car sound.

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PRECISION TIMING

THE KEY TO HIGH-RESOLUTION REPRODUCTION IS HIGHLY PRECISE TIMING

Each digital component processes digital signals using a different clock (timing), which causes slight signal misalignment, known as jitter, when transmitting the audio data. This jitter distortion results in a decreased feeling of realism from the music. In the case of 192kHz/24bit audio, even a slight amount of jitter is a factor that cannot be overlooked. This means that a high degree of precision is required between the Head Unit, which sends the digital music data, and the DSP Amplifier, which receives the data and performs the sound tuning. The Alpine Status system uses an extremely high precision clock, having the same high specifications as top-grade home audio components, for both the Head Unit and the DSP Amplifier, ensuring the most compatible and accurate data transmission.

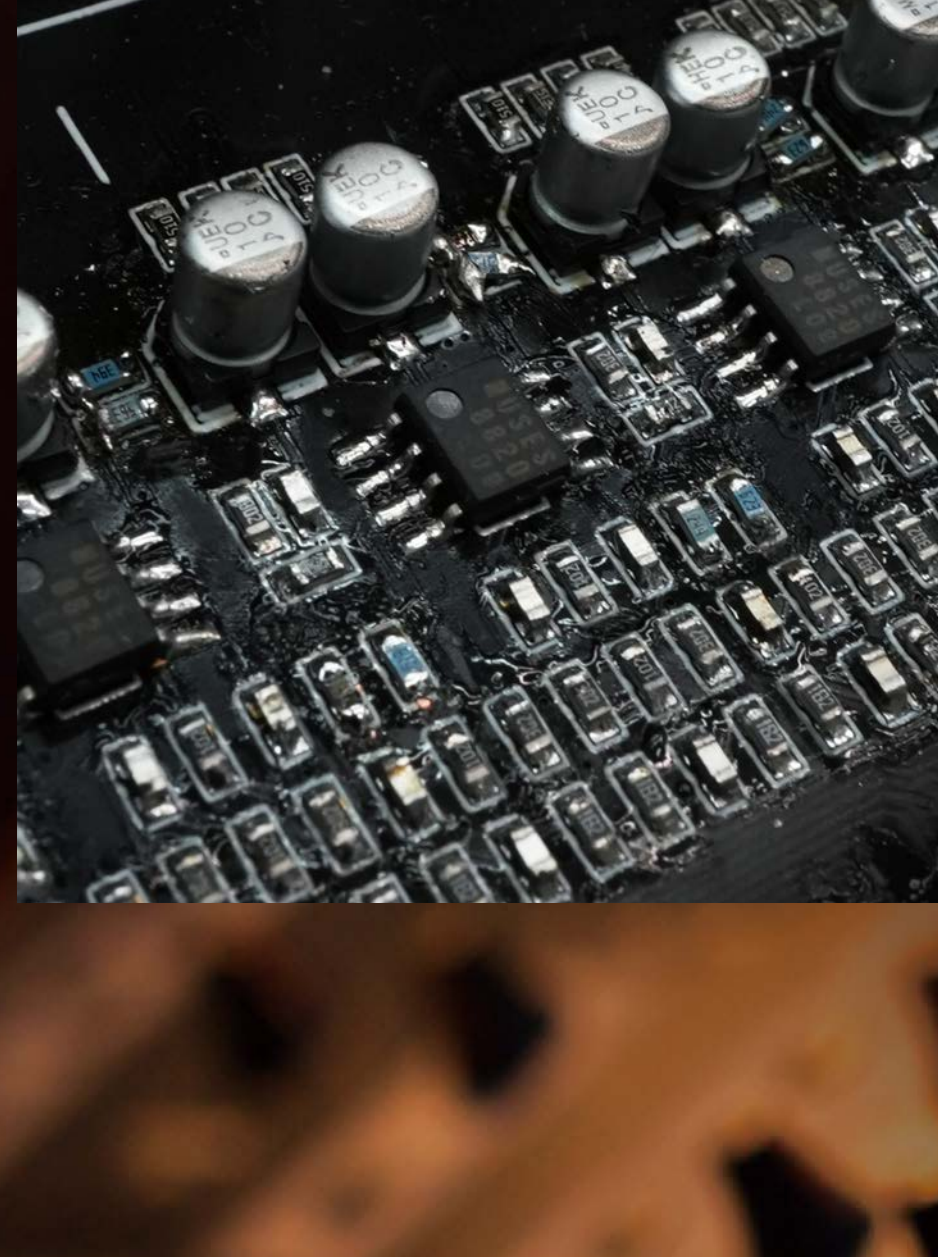
Same clock device is used for Head Unit and DSP Amplifier.



THE ANALOG CIRCUIT IS ALSO DESIGNED TO A HIGH STANDARD OF SOUND QUALITY

The operational amplifier is a key device that enhances the performance and sound quality of audio analog circuits. These are the ICs used throughout the circuit to process the analog signals, and to ensure uncompromising sound, we use the MUSES8820*, the industry's best operational amplifier, chosen by Alpine sound tuning experts. In addition, our expertise in analog circuit technology, developed over the years as an audio manufacturer, has been used throughout the product to suppress mutual induction between circuits as well as noise, especially third harmonic components, to the utmost limit, resulting in clear and crisp sound quality.

MUSES



OPTIMUM SOUND TUNING

14-CHANNEL DSP OPTIMIZES THE SOUND FOR THE CAR'S INTERIOR ENVIRONMENT

With ultra high resolution sound sources, the precise tuning of the sound from each speaker has to be more exact than ever. In the case of a car interior, any discrepancy in the distance between each speaker unit and the listener will upset the timing at which the sound reaches the ears and cause distortion, resulting in sound that differs from the original. In order to achieve the correct phasing, three-dimensional stereo effect, and balance between low and high frequencies, it is necessary to tune the sound precisely to the environment inside the car. However, the DSPs in conventional products are designed to correct six channels, so to correct 14 channels, they use more than one processor, causing jitter distortion between them. Alpine Status is therefore equipped with an all-in-one DSP that can correct the arrival times (time correction) and audio frequencies (equalization) of up to 14 channels, ensuring the optimum audio environment from a luxury car's multi-channel sound system.



EXACTING CRAFTSMANSHIP

TONE MATCHING OF THE SPEAKER WITH THE CARBON FIBER MATERIALS, FOR BEST SOUND REPRODUCTION

Traditionally, speaker units have been made from suitable materials and structures for each frequency band. However, this approach has led to minor differences in tone quality because of the different characteristics of each unit. With Alpine Status, therefore, we unified the carbon fiber materials and construction so that the sound of each unit is beautifully consistent.

The same diaphragm material is used for all speakers.



High frequency sounds — priority on weight-saving. Typical speaker diaphragm materials Low frequency sounds — priority on rigidity.

Problem: Different materials make different tones

Solution				
Material	Specific Gravity		Tensile Strength	
CFRP (AlpineF#1Status)	1.59	✓✓	1000	✓✓
2 types of carbon (Alpine Status)	1.55	✓✓	930	✓✓
Aluminium	2.7	✓	230	✓
Magnesium	1.8	✓✓	280	✓
Iron	7.8	—	400	✓✓
Resin (PP)	0.96	✓✓	40	—
Resin (PP+Mica)	1.19	✓✓	65	—

SYSTEM VARIATIONS

TWO TWEETERS FOR SEAMLESS INSTALLATION IN FACTORY-SYSTEM POSITIONS.

The tweeter plays an important role in the reproduction of high-resolution sound, and Alpine Status offers two types of tweeters to choose from. The first is the Custom Tweeter, which uses a powerful magnet and a large diaphragm to prioritize sound quality. The other is the Slim-fit Tweeter, which offers excellent sound quality balance and is small enough to fit in a factory-provided speaker position for discreet installation.



A FULL RANGE OF AMPLIFIERS AND SPEAKERS TO BUILD THE SOUND SYSTEM OF YOUR CHOICE

Alpine Status offers several types of speakers, ensuring that you're able to build the best system for your car and your sound preferences.



HDZ-653
6.5" 3-way Custom Component Speakers

HDZ-65C
6.5" 2-way Custom Component Speakers

> Learn More



HDZ-653S
6.5" 3-way Slim-fit Component Speakers

HDZ-65CS
6.5" 2-way Slim-fit Component Speakers

HDZ-65
6.5" Coaxial Speakers

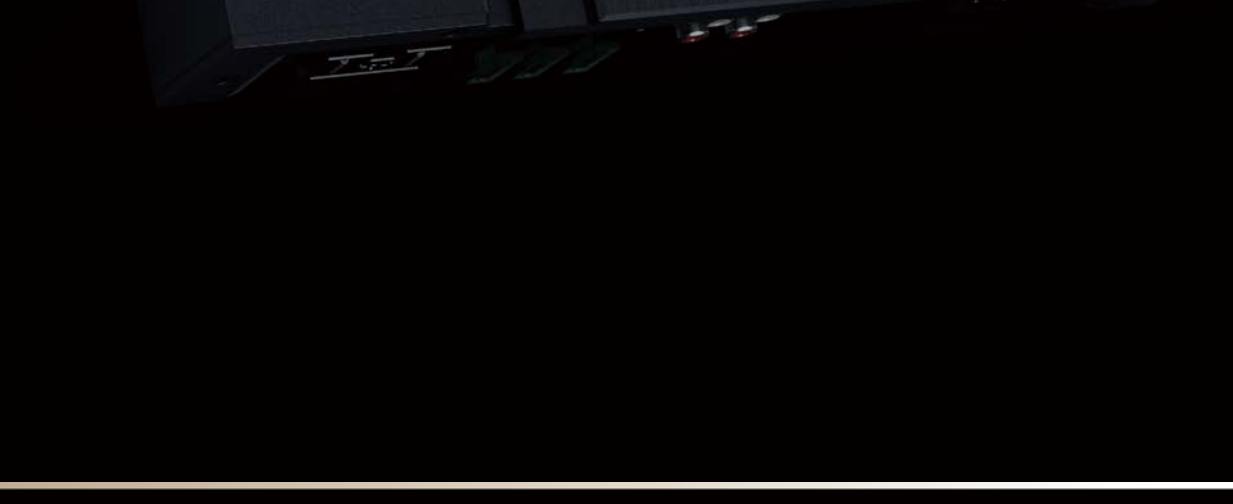
> Learn More



HDZ-110
11" Subwoofer

> Learn More

If you want even more dynamic sound, you can add a high-power mono amplifier.



HDA-M80
Mono Amplifier

HDA-F60
4 Channel Amplifier

HDA-V90
5 Channel Amplifier

> Learn More

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HEAD UNIT



HDS-990

Head Unit

Hi-Res
AUDIO

Input	4ch Hi-Level, AUX, Bluetooth Audio, USB Storage 3 Inputs (Front x1, Rear x2), USB Audio
Output	25W RMS x 4ch Amplifier, Optical/Coaxial, 6ch RCA
DSP	6ch 31 Band EQ, X-Over, Time Delay
Decoding	MP3, WMA, AAC, MP4, WAV, FLAC, APE, DSD
System Sampling Rate	192kHz/32Bit
Frequency Response	20Hz-40kHz (Hi-Res)
Size (mm)	W178xD143.6xH50 (Main Unit)
System Connectivity	Opt/Coax to DSP Amplifier or 6ch RCA to Amplifier (with 4ch Hi-Level Input), 4ch Built-in Amplifier and Subwoofer Amplifier (with 4ch Hi-Level Input)



AMPLIFIERS



HDP-D90

14 Channel DSP with 12 Channel Amplifier

Hi-Res
AUDIO

Input	12ch Hi-Level, 2ch RCA, Optical/Coaxial, Bluetooth Audio
Output	50W RMS x8ch + 80W RMS x4ch Amplifier, 10ch RCA
DSP	14ch 31 Band P-EQ/G-EQ, 0-20ms Time Delay, 20Hz-40kHz X-Over (-6dB--48dB/oct slop)
System Sampling Rate	192kHz/32Bit
Frequency Response	20Hz-40kHz (Hi-Res)
Size (mm)	W278xD256xH58 (Main Unit)
System Connectivity	External Bluetooth Unit, Head Unit Commander Operation, Optional Controller



HDA-M80

Mono Amplifier

RMS Output Power	500Wx1ch (4Ω), 800Wx1ch (2Ω)
THD+N	≤0.02% (10W), ≤0.07% (Rated Power)
S/N Ratio	>107dB
Frequency Response (-3dB)	8-400Hz
Damping Factor	>1,500
Size (mm)	W297xD192xH50.8



HDA-F60

4 Channel Amplifier

Hi-Res
AUDIO

RMS Output Power	100Wx4ch (4Ω), 150Wx4ch (2Ω), Bridged 300Wx2ch (4Ω)
THD+N	≤0.02% (10W), ≤0.07% (Rated Power)
S/N Ratio	>106dB
Frequency Response (-3dB)	10-60kHz (Hi-Res)
Damping Factor	>500
Size (mm)	W297xD192xH50.8



HDA-V90

5 Channel Amplifier

Hi-Res
AUDIO

RMS Output Power	75Wx4ch+300Wx1ch (4Ω), 100Wx4ch+500Wx1ch (2Ω), Bridged 200Wx2ch (4Ω)
THD+N	≤0.02% (10W), ≤0.07% (Rated Power)
S/N Ratio	CH1-4: >105dB, CH-5: >104dB
Frequency Response (-3dB)	10-60kHz (Hi-Res)
Damping Factor	CH1-4: >500, CH-5: >1,000
Size (mm)	W297xD192xH50.8



CUSTOM SPEAKERS & SUBWOOFER



HDZ-653

6.5" 3-way Custom Component Speakers

Hi-Res
AUDIO

Maximum Peak Power	300W
Maximum RMS Power	100W
Sensitivity	88dB
Frequency Response	55Hz-40kHz (Hi-Res)
Structure	Carbon Cone & Double Gathered Edge
Unit Size	Woofer: 6-1/2inch (16.5cm) Midrange: 3-1/2inch (8.9cm) Tweeter: 1-1/4inch (3.2cm)



HDZ-65C

6.5" 2-way Custom Component Speakers

Hi-Res
AUDIO

Maximum Peak Power	300W
Maximum RMS Power	100W
Sensitivity	88dB
Frequency Response	55Hz-40kHz (Hi-Res)
Structure	Carbon Cone & Double Gathered Edge
Unit Size	Woofer: 6-1/2inch (16.5cm) Tweeter: 1-1/4inch (3.2cm)



HDZ-110

11" Subwoofer

Maximum Peak Power	1200W DVC (2Ω+2Ω)
Maximum RMS Power	400W DVC (2Ω+2Ω)
Sensitivity	84dB
Structure	Carbon Cone & Double Gathered Edge
Unit Size	11inch (27.9cm)
Mounting Depth	7-3/4inch (19.6cm)

SLIM-FIT SPEAKERS



HDZ-653S

6.5" 3-way Slim-fit Component Speakers

Hi-Res
AUDIO

Maximum Peak Power	300W
Maximum RMS Power	100W
Sensitivity	88dB
Frequency Response	55Hz-40kHz (Hi-Res)
Structure	Carbon Cone & Double Gathered Edge
Unit Size	Woofer: 6-1/2inch (16.5cm) Midrange: 3-1/2inch (8.9cm) Tweeter: 1inch (2.5cm) "Slim-fit"



HDZ-65CS

6.5" 2-way Slim-fit Component Speakers

Hi-Res
AUDIO

Maximum Peak Power	300W
Maximum RMS Power	100W
Sensitivity	88dB
Frequency Response	55Hz-40kHz (Hi-Res)
Structure	Carbon Cone & Double Gathered Edge
Unit Size	Woofer: 6-1/2inch (16.5cm) Tweeter: 1inch (2.5cm) "Slim-fit"



HDZ-65

6.5" Coaxial Speakers

Hi-Res
AUDIO

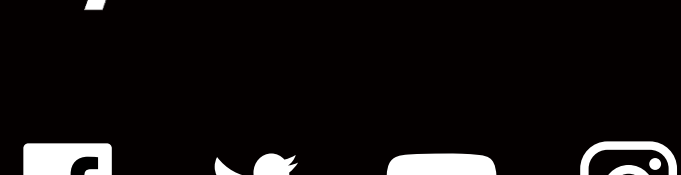
Maximum Peak Power	300W
Maximum RMS Power	100W
Sensitivity	88dB
Frequency Response	55Hz-40kHz (Hi-Res)
Structure	Carbon Cone & Double Gathered Edge
Unit Size	Woofer: 6-1/2inch (16.5cm) Coaxial Tweeter: 1inch (2.5cm)

Product Information

Technologies & Features

Specifications

Alpine Status



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