

Synchronising you, your sound, and your images.

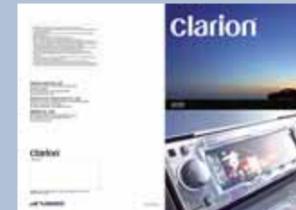
The Clarion 2005 line up has reached a new high in car multimedia. It offers an interface that's as intuitive as having a conversation, creating an audiovisual space that synchronises sound and images with human emotions. It strives to deliver high quality musical and visual entertainment to people in the styles they want and offer information the driver needs in a timely manner. Clarion's Human-Machine Interface concept is a masterstroke of usability that brings true "comfort" and "safety" into your car, changing yesterday's fiction into today's fact.



be heard
be seen

Clarion® 2005

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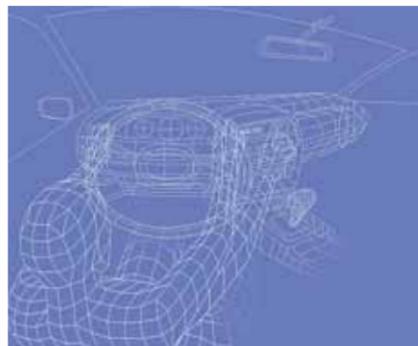
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REDEFINING THE TERM HUMAN-MACHINE INTERFACE

IT'S INNOVATION YOU CAN SEE, HEAR AND TOUCH ... IT'S CLARION

Our pursuit of perfection has led us down many paths. While sound and vision have been at the core of this endeavor, superior control is what binds together everything that we do. That's why perfecting the concept of Human-Machine Interface (HMI) is so important to us. And it is this reason that you'll see what we've achieved throughout our 2005 product lineup. Our purpose: to bridge the gap between man and machine. This is the future made now ... this is Clarion.



It's visual control ... visual entertainment

Technological advances can't be regarded as true progress if they're difficult to use. That was the concept



behind Clarion's new VRX756VD, a mobile multimedia station that represents Clarion's answer to today's iPod revolution. Containing a fully integrated user interface that provides the same look and feel as Apple's popular music player, this technological innovation is the direct result of Clarion's years of experience with HMI technology.

Digitally Remastered: Optimedia

Fusing technological artistry with cosmetic functionality, Optimedia represents Clarion's further understanding of HMI technology. For 2005, Clarion's remastered Optimedia technology expands to two new main unit models, both of which utilize touch-screen control to minimize the use of function buttons and knobs. The cosmetic functionality of these units doesn't stop there, however along the bottom edges of each new Optimedia screen are four half circles,



designed directly into the faceplate of each source unit. More than just cosmetic embellishments, these grooves serve as finger markers when controlling the unit. This is cosmetic integration at its best ... this is Optimedia.

It's not about being first. It's about a deep running passion for creating the world's best HMI-equipped source unit. It's about effortless control and unlimited functionality. It's wrapping all of this innovation into a single-DIN package.

4.2-inch multicolour TFT display

Offering sharper images and more detailed information, Clarion outfits its new Optimedia main units with a spacious 4.2-inch TFT display. This is another example of Clarion's pursuit of better HMI technology.

Optimedia with Touch-Panel control

Clarion's Optimedia technology goes beyond audio-source navigation. Enhance your sound, or adjust the display setting with a simple touch of the 4.2-inch TFT display.

Rotary volume control

Clarion's rotary volume control provides high-accuracy control in an environment that doesn't allow for anything less. With its rubberized outer rim, users are ensured quick and precise response.

Touch-Panel operation

Clarion incorporates a unique swipe control action when users are navigating through all sources. All it takes is a simple up and down swipe action for forward and reverse control.

Music Catcher system

It's music storage made easy. This one-touch CD recording technology is easy to use and easy to access. There's no complicated connections, and no removable hard drives. All it takes is one button to enjoy hours of skip-free music playback ... guaranteed.

Multicolour TFT display

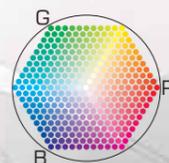
For better, more detailed images, Clarion incorporates a 4.2-inch TFT display for source units outfitted with Clarion's remastered Optimedia technology. Also enhanc-



ing the cosmetics of these units, this improved viewing and control screen provides users with more system information, such as a system's current status, song and artist title, as well as function and mode indicators. This high-tech innovation is a direct result of Clarion's pursuit of HMI-based technologies. It's about cosmetic design with a purpose. It's about constructing a source unit that combines top-notch entertainment with unparalleled control and visibility.

Multicolour display for choreographed cosmetics

Clarion offers four source units in 2005 that allow users to adjust the RGB levels to cosmetically harmonize the look of their radio to their vehicle's dashboard and gauge cluster illumination. Users can choose from 728-colour possibilities. For Optimedia-controlled main units, users can also adjust the illumination of the screen to accommodate daytime and nighttime viewing.



HMI: Bridging the gap in style

Retractable Rotary Volume knob with rubberized grip



The large volume control knob features a rubberized outer rim for precise control over your system's sound levels. For added ease of use, Clarion illuminates the area around the volume knob for better recognition during nighttime use.

Smart design ... Smart Control

Clarion's new Smart Control Key, outfitting three source-unit models in 2005, provides users with simple up and down operation on every source. Located on the rotary volume control, Clarion's Smart Key is also key when navigating through sound menus. It's easy ... It's a smarter HMI.



Anti-theft safeguards

A Detachable Control Panel (DCP) is a useful tool against would-be thieves, as it keeps them guessing as to what type of system you have inside your car. Acting as a nighttime deterrent, Clarion equips select source unit models with a blinking LED indicator when the faceplate is removed. So, pop off the faceplate and bring it with you. It's just another step Clarion has taken to ensure longtime use and enjoyment.



New cosmetic faceplate styling

Clarion's 2005 styling speaks to the high-tech innovation of this year's line. For its two Optimedia-equipped source units, Clarion unveils a new stainless steel-styled faceplate. Also introduced this year are three new aluminum-styled faceplate designs. Precision molded and surface treated, Clarion's new faceplates provide the perfect cosmetic enhancement to any vehicle interior.



Each individual part works in tandem and comprehensively based on HMI, to dramatically increase driver visibility, operability, and safety.

KEEPING PACE WITH TODAY'S DIGITAL AGE

Staying in tune with today's music lifestyles.

The expectations of car audio are evolving. Sound quality is now riding shotgun in today's digital age. People want more ... more access to their musical and video content. Not to be outdone, however, sound quality is as much a part of this revolution as the need for compatibility. This is reflected in Clarion's product line – from the expansion of our Music Catcher one-touch CD recording technology to providing in-car access to today's hottest portable music player. Our pursuit of these new expectations doesn't stop there, either. Sound quality, the cornerstone of what we do, also plays a role in this new age. We've developed sound-enhancement features geared toward new media formats such as MP3 and WMA. We do this because we understand that music lifestyles are in a constant state of change. We also understand that it is our job to stay one step ahead.



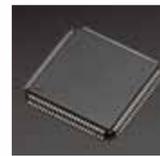
Optimedia: The evolution is here

Witness the evolution of Clarion's Optimedia display technology. When the Optimedia DXZ946MP was first introduced last year, Clarion broke new ground in main unit display technology. We're taking this touch-panel, graphics-based innovation even further in 2005. Two units harness this evolution: the DXZ956MC and the DXZ856MP. With better on-screen menus, vastly improved motion graphics ... it's not what you can't do, it's about what you can achieve with Clarion's new Optimedia technology. It's unprecedented control and visibility ... It's Optimedia.



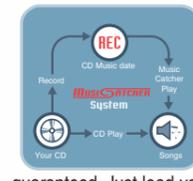
AC Processor IV: addressing new-age digital sound processing

Introducing the latest in sound processing technology: Clarion's AC Processor IV. For vibrant, dynamic sound that's straight out of a movie theatre or concert hall, Clarion's newest version of its spatial analysis technology puts you in total control. Engage Clarion's Time Alignment Control to adjust the time delay of each speaker, or correct irregular reflection and polarisation with the Virtual Space Enhancer. Source units equipped with this technology also offer a Parametric EQ for extreme system customisation, as well as Clarion's exclusive ADF sound enhancer.



Music Catcher expanded ... more units, more possibilities

No complicated connection to any external device ... Music Catcher. Not less than 3 models feature this one touch CD recording technology transforming those units into in-dash digital juke box. Music Catcher allows for CDless, skip-free music playback ... guaranteed. Just load your CD into the Music Catcher source unit, select a track and hit the record button. This means from three to six hours plus of music, depending on model. This is high-tech innovation made easy.



Sound Quality Features

MOS-FET power amp: it's pure energy for your sound system
The crossover distortion that occurs during voltage conversion of the current from the preamp is suppressed by dividing power and ground into L-ch and R-ch to separately drive the Power IC. And since MOS-FET is a highly efficient element with a linear operation curve, it dramatically improves S/N of the high frequency range, which is especially susceptible to noise. This results in smooth and rich expressive capabilities, and sound reproduction infinitely close to the original source.



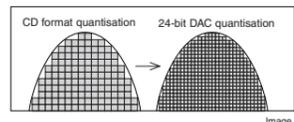
MP3/WMA playback: responding to today's digital age
MP3 and WMA music files have revolutionised the way we listen to music. And although different, their effects on today's music lifestyle can be felt similarly. Created by the MPEG1 Audio Layer3, MP3 allows users to transfer large amounts of music from the PC onto a CD-R or CD-RW up to 10 hours worth of music. And because it



supports Variable Bit Rate (VBR) compression, users can adjust the quality of the compression for more music or for better

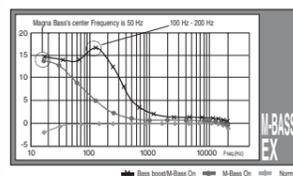
sound quality. Windows Media Audio (WMA) also offers similar benefits, and because of its integration into the Windows XP operating system, its acceptance by music lovers continues to grow. Compared to MP3, WMA compresses songs into about half the file size, allowing users to burn twice as many songs (20 hours) onto a single disc. And even with its higher compression rate, WMA compressed music offers slightly better sound quality than MP3. So, whichever format you choose, Clarion has the solution you're looking for.

24-bit D/A converter: music reproduction at its best
Utilised by high-end home audio equipment, Clarion's 24-bit D/A converters offer high-definition, audiophile-grade sound reproduction. It does this by greatly reducing



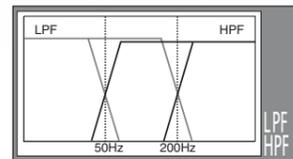
linearity errors and notch distortion, as it recreates the natural nuances and expressions true to the original source. The result is superior sound and less system noise.

Magna Bass EX: delivering big bass to your sound system
Emphasise your bass with Clarion's Magna Bass EX. Compared to conventional "Loudness" features, which boost the low frequency range of 100 Hz,



Magna Bass EX boosts the ultra-low frequency with a centre frequency of 50 Hz. And with its automatic boost level control, you get well-balanced bass volume for a tighter, heavier sound.

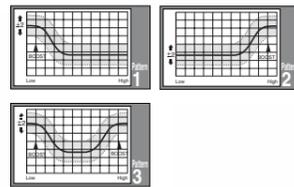
Built-in high-pass/low-pass filters: for precise music reproduction
Allowing for smooth music transition, Clarion's high-pass and low-pass filters



ensure that the frequencies reaching your speakers match their output potential. This means that tweeters in a two-way setup only are driven with the high-range frequencies, and subwoofers with the low-frequency ranges. So, if you're not into muddy sound, engage Clarion's built-in high-pass and low-pass filters. The result will be accurate sound reproduction.

Z-Enhancer Plus: (2-band EQ) for customised sound reproduction
Whether you want to emphasise the bass,

or select a setting that provides more impact, Clarion's Z-Enhancer Plus offers three preset EQ patterns: Bass Boost, Impact, and Excite. Users can also select Custom 1 – Clarion's 2-band Parametric EQ. When in this mode, users can adjust the gain, Q and frequency of each band for a customised sound.



CeNET convenient connection



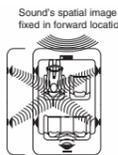
iPod
All CeNET products can be connected to iPod units thanks to Clarion original interface.

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"AC-Processor IV" – the result of advanced sound quality and sound field analysis technology.

Built-in crossovers: delivering maximum system performance
Allowing for maximum system performance, Clarion's built-in crossovers separate the sound spectrum so tweeters reproduce only high-range frequencies, and subwoofers reproduce only low-range frequencies. Users can also tailor the system to support future upgrades by individually adjusting the crossover frequency, filter, slope and phase.

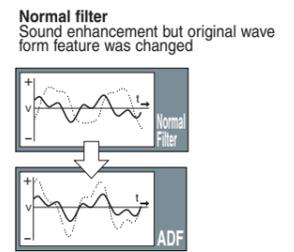
Time Alignment control: it's pinpoint accuracy for your system
Calibrate your sound system so you're sitting in the "seventh row, centre" spot (optimum listening position) of your vehicle. Because music content is recorded so that imaging is in the centre of the right and left speakers, Clarion's Time Alignment Control allows users to adjust the speaker acoustics so that the same effects can be



heard in any listening position inside the car. This feature also allows you to opti-

mise your system to account for the number of passengers inside your vehicle's interior cabin.

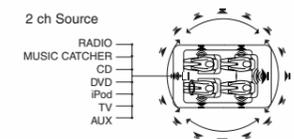
ADF: Created to enhance your audio listening
ADF (Anti Distortion Filter) is a newly developed equalising system, which is designed to match peak of frequency curve to the original one. Conventional tone control or loudness is effective for emphasising bass/treble sound, however, due to phase discordance, it sometimes damages the original sound. Thanks to the Clarion's latest sound technology, ADF is able to reinforce bass/treble sound without causing such distortion, so that the original sound can be lively reproduced after equalization. Three preset patterns and one user memory is provided.



Anti-Distortion filter (ADF)
Sound enhancement with original wave form feature maintained

Dolby Pro Logic II: transforming your sound into virtual 5.1-channel surround
Dolby Pro Logic II is a matrix sound

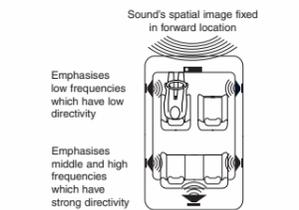
decoding technology developed by Dolby Laboratories that decodes any two-channel audio source, such as a CD or radio broadcast, and outputs it as virtual 5.1-channel sound. Clarion was the first to incorporate this innovation, which brings the sonic experience of a live concert right into the car. And since it's equipped with a Centre-Width Control and a Matrix Mode that simulates the centre-channel speaker using the front L/R speakers, you can reproduce a virtual 5.1-channel surround sound effect from a standard four-speaker setup. Users also have additional modes to choose from, all of which were created to enhance the listening experience inside your vehicle.



Virtual Space Enhancer: directing sound for a personal listening experience
Virtual Space Enhancer to digitally com-

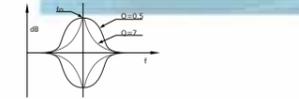
Multi mode (when selecting subwoofer)

Speaker output	Network adjustment value	Crossover Frequency		
		Crossover slope	Level adjustment	phase not/rev
CROSS-OVER	HIGH (HPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 2 kHz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	0 ~ -20 dB With switchover
	MID (LPF)	f=630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 2 kHz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	0 ~ -20 dB With switchover
	MID (HPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 80 Hz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	0 ~ -20 dB With switchover
	SUB (LPF)	f=25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k Hz/Factory setup 80 Hz	-6, -12, -18 dB/oct Factory setup -12 dB/oct	+5 ~ -20 dB With switchover
SUB (HPF)	f=16, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250 Hz, THROUGH/Factory setup THROUGH	-6, -12, -18 dB/oct Factory setup -12 dB/oct		



compensate for irregular reflection, polarisation, and other acoustical problems associated with a vehicle's interior design.

Parametric EQ: taking sound customisation to the next level
With Clarion's Parametric EQ users can precisely adjust the centre frequency position and level, as well as the steepness of the equalising curve. Users can also switch to professional sound control for additional system flexibility. So, for sound that's customised to your musical tastes, give Clarion's Parametric EQ a try.



FULL-DIRECTIONAL ENTERTAINMENT LETS YOUR SPIRIT RUN FREE.

Cutting-edge technologies and ideas make a new style of car entertainment come true.

In the front seat, people can enjoy listening to a CD or radio, while people in the back seat can watch a DVD movie on an overhead or headrest-mounted monitor, or have some thrills beating a videogame. The Clarion 2005 lineup is absolutely loaded with innovative technologies and ideas, as well as a renewed emphasis on quality, to bring exciting entertainment into your car. 5.1-channel Dolby Digital/dts Surround turns full-presence sound into a complete, moving experience. 2 zone entertainment lets people in the front and back seats to enjoy different sources and content. iPod control and game ports provide ways to access and enjoy a broader range of entertainment. In addition to offering top-notch images and sound, Clarion also offers the highest quality driving experience for people who want car entertainment that's a class above.

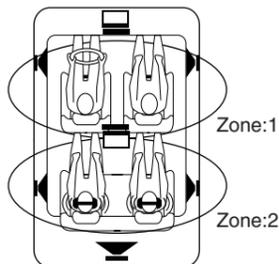
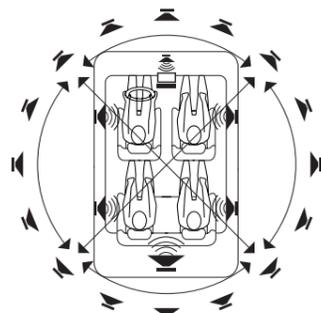
By adopting an ultra-thin display, the cumbersome black box containing the amplifier circuit and tuner is no more. Now, aside from incorporating a bigger screen, everything is contained in one chassis.

7-inch monitor touch panel control
Things don't get any easier than this. Perfect for kids and great for adults too, the Clarion 7-inch touch-screen monitor puts you in charge. Offering super-simple control over audio, radio/CD, DVD/CD changers, TV reception and a Dolby Digital & dts decoder, this intuitive screen serves up one-touch menus and controls that make even the most complicated technology easy to swallow.

Support for multimedia playback
This product supports a full range of DVD video, including movies, dramas and live feed video, as well as music and video CDs. The multimedia player also enables you to listen to MP3 music files recorded on a CD-R or CD-RW disk. This one unit system lets you enjoy a full range of multimedia entertainment in your car.

5.1-channel Dolby Digital/dts surround

First there was home theatre, now there's road theatre. 5.1-channel surround sound is a must for home entertainment today. Now you can enjoy it in your car as well. Dolby Digital and dts provide an incredibly realistic sound environment with three channels of sound in front of you (left, right and centre) together with two more behind you, plus a dedicated low-frequency sub-woofer channel that makes the sound larger than life. It all combines to produce a dynamic cinema-like sound field even within the relatively small space of your vehicle's interior. So turn your next road trip into a road show with Clarion's high-performance cinema sound.



True 2 zone entertainment
Clarion's 2 zone entertainment feature is going further in 2005, offering SUV and mini van owners more flexibility when it comes to their mobile entertainment system. Now, owners of Clarion's VRX756VD get more front-seat listening options while rear-seat passengers watch and listen to a DVD or VHS movie via wireless headphones. So, plug in an iPod, or listen to a CD, the radio, or any CeNET-equipped audio source. This is versatility where you need it most ... in the car.

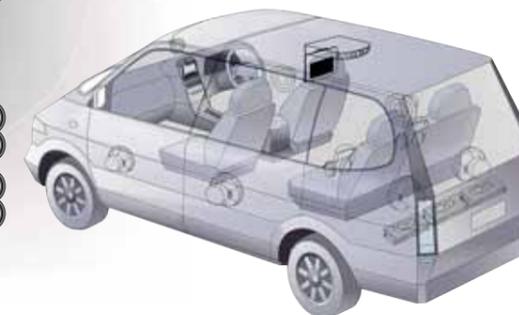
Big sub display
VRX756VD are equipped with big sub display in front of the control panel. When the main display is closed for listening to non-visual sources, you can access to the utility information such as CD track number or radio station frequency.



Steering remote control
Clarion's steering remote controller can control your car entertainment system for added safety and easy operation. When this sub-remote control (sold separately) is mounted, you can operate your car entertainment system safely and comfortably. (For VRX756VD, VXZ756, DXZ956MC, DXZ856MP, DXZ756MC, DXZ656MP, DXZ556MP, DB456MC, DB356MP, DB346MPV, DB256, DMZ637MP, ADZ625, ADX6655z, AXZ610, AX430)

Whether up front, or in the back, let Clarion create

Create the ultimate mobile audio/visual entertainment system with Clarion's full line of mobile entertainment components. From its 2 zone entertainment-equipped in-dash DVD player with monitor to its rear-seat entertainment solutions, Clarion has what you need where you need it.



Wide 8-inch display
Clarion achieves the world's first wide 8-inch display in an in-dash TV monitor, based on a new idea that shatters previous notions of in-dash monitors. Its large screen size was made possible with Clarion's Trinity Motion System, in which the monitor slides out, rotates, and then flips up to provide a maximum size screen in a minimum size space. This large image with high resolution and superior visibility offers excellent results for DVD viewing, such as movies and concerts, as well as TV viewing. By connecting the DVD center unit VXZ756 or DVD changer VCZ625, an exciting car entertainment environment can be easily created.



iPods of Fun

Unplug your ears and plug in your stored iTunes music collection with Clarion's iPod ready VRX756VD. This one-cable solution not only offers complete control over the iPod, but it charges and powers Apple's popular music player during operation. And with its iPod-like control pad and information screen, users will quickly forget that their iPod is safely stored away. Best of all, Clarion has outfitted the VRX756VD with a dedicated iPod port, which means users won't have to sacrifice any additional audio sources. For control, the onscreen control pad contains a playlist access button, fast-forward and reverse-peek, as well as the play and pause button. Encircling the control pad are four additional control buttons that allow users to set the iPod to repeat, shuffle and browse. The fourth button allows users to engage Clarion's 2 zone entertainment feature. Taking it a step further, the onscreen information display provides users with a clock, track and playlist information, elapsed time and any engaged sound-enhancement features. So bring your iPod with you, Clarion's VRX756VD is waiting.

*Only English is available for the onscreen information for iPod function.



Ready for iPod

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