

# Panasonic

ideas for life

2006

Car Audio & DVD Car Navigation System



The logo for 'car systems' features a stylized orange car silhouette above the text 'car systems' in a bold, lowercase sans-serif font.

## **Blue Arc Shaped Design**

*The blue arc is the symbol of Power, Innovation, Connectivity and our Promise of better things to come. It is the arc of electricity that ignites the engine, the spark that inspires new ideas, the powerful arches that bridge our world and the crescent on the horizon that heralds a new day. The blue arc shaped design stands for all these things, and provides a tantalizing glimpse of an exciting future. Now you find this distinctive emblem on our new lineup, illuminating your car entertainment with the arc of cool blue power.*

*In 2006, Panasonic turns up the power of "Full Digital". It is a ticket to the best seat in the house, the magic that lets our components **End-to-End Digital Power** play in perfect harmony, and the secret behind our intuitive interface that provides easy control of a vast array of digital media and formats. Simply speaking, it is the key to the coolest in-car entertainment experience on the planet.*





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**THE NEW CONCEPT**

**1400 W**



## **The Art of Sound**

*The dynamic new styling sets the stage for a unique entertainment experience. Even before you turn it on, you feel a sense of empowerment. The dawn of a new era of in-car entertainment is here.*

**From the cool new design concept to expanded performance features, Panasonic pays attention to every detail and incorporates design features that put safety first without sacrificing elegance. Panasonic's new car entertainment systems are works of art and a joy to use.**

## **The New Concept – Promise of Power & Quality**

Virtually all of our new models for 2006 can be identified by the distinctive blue arc shape design. Symbolizing the enhanced power and dynamic performance our new lineup, the arc conjures images of the arc of energy that ignites your engine, the spark of innovation that inspires our technology, and the strength of the arched bridges that carry you across new frontiers. In the gleaming chrome accent, you sense the quality that is the promise of Panasonic. When you are ready to step up to the ultimate in audio and visual entertainment systems for your car, it will be easy to find. Just look for the cool blue arc of power.





**The blue arc shaped design theme also reflects the smile of satisfaction and confidence that intuitive interface architecture and safety design features bring to the faces of our users.**

### Motorized Display Face – A Look at Safety

Panasonic's "user-first" design is about comfort, ease-of-operation and above all, your safety. The motorized display on our CD players is just one example of how effortless control of your car entertainment centre contributes to safe driving. Press a button and the lower edge of the motorized faceplate glides out, tilting the faceplate to your choice of three angle settings.

The ideal viewing angle lets you grasp operation status at a glance and keep your eyes on the road. The front face also automatically opens for CD loading and ejection.



### Large Rotary Volume Control Knob

Reach, grip and control! The solid tactile feedback and smooth operation of the easy-to-grip large rotary volume control knob provides a simple control interface. It not only gives your system the look and feel of a quality home hi-fi, it also allows you to keep your attention on the road. Just push in the knob to make item selections, and turn it to adjust level. The sleek plated finish against the black chrome panel lends an air of sophistication to the face of your system.



#### Remote Control In

Stay in safe control of both your car and audio system by connecting the Remote Control Input with the optional adapter to your original dashboard or steering wheel remote control system.



### **Express Yourself!**

*Dynamic & Beautiful!*

*An expanded range of colours and dynamic images lets you express your personality in vivid detail. It is a visual statement of who you are and your satisfaction with nothing less than the best.*



# 4096 COLOR DISPLAY



**More beautiful and more functional! Our improved CD player/receiver display boasts more colours and better clarity with superb brightness. The dynamic display reflects the astounding performance within, while heightened visibility ensures safer and easier operation.**

## **4096-Colour OEL – Big and More Beautiful**

Leaping from 512 to 4096 displayable colours, the new organic luminescence (OEL) multi-colour display achieves the high brightness and viewing angle of LEDs while outperforming the resolution and power efficiency of conventional LCDs. Delivering 5 times better contrast than conventional LCDs and faster response time for more dynamic expression, Panasonic OEL display technology produces dynamic 3D action displays in up to 4096 colours on the 172x54 pixel screen. The improved readability of text makes exploring the rich functionality of Panasonic easier than ever before. With the Customize function, you can load and show unique images.

**4096 COLOR DISPLAY**

## Variable Full Colour – The Style Setter

Match the look of your system to your car interior with Variable Colour. You can coordinate the backlight colour of your head unit display with your car interior by selecting from convenient presets or create your own signature colour from among 9261 shades. Each RGB LED in the fine matrix can be adjusted in 21 steps to produce very delicate shades to perfectly match your interior or personality.

**VARIABLE  
COLOUR**



+This download service is exclusively for the Panasonic CQ-C8803N, CQ-C8403N, CQ-C7703N and CQ-C7303N. It cannot be used for other car audio products (or other products). +This download service is not available in some areas.

For details, please access the Panasonic website. (<http://www.panasonic.co.jp/pas/en/software/customize/index.html>) +Contents are added /updated on a regular basis. +This download service may change or stop without notice, depending on circumstances. +We are exempt and immune from any and all liability or responsibility for any reason in case of direct or indirect damages suffered by a user in connection with this download service for still and motion image data. +For details on how to use the customization function, please refer to the user's manual enclosed with the product. +Supported OS: Windows Me / Windows 2000 / Windows XP +CPU: PentiumII 400 MHz or above is recommended. +Memory: 128MB or more is recommended. +Display: Resolution of 800 x 600 or above (1024 x 768 or above is recommended), 24bit or greater +Required Available Space: Available space of 400 MB or more +Software: Microsoft Internet Explorer 5.0-6.0 is recommended. +Caution: Not supported on Apple Macintosh and Windows NT. There is no guarantee that the application will run on all computers with the recommended operating environment.

## 3DDM – Make It Perfectly Clear

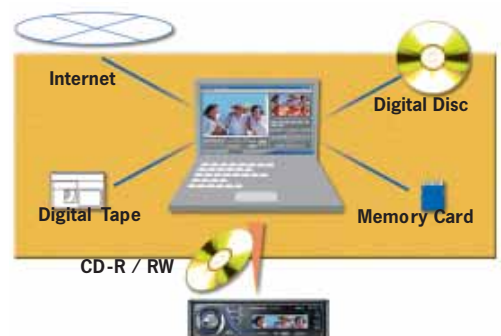
Adding visual excitement to your dash with smoothly rendered full-motion graphics, the superb resolution of our 3DDM (3D-Dot Matrix) technology displays information with excellent clarity. In addition to the built-in graphics, you can use our Customize feature and install a photo or image that pulsates and moves to the sound of the music or even a moving image.

**3DDM**

## Customize – Your Signature System

Your choice of music reflects your taste and personality, and so should the look of your system. At Panasonic's Customize site, you can choose from a wide variety of still image variations, sets of opening/ending moving themes, and types of moving images. Just download, burn your selection on a CD-R and install it in your system. For a truly personal touch, the "Panasonic IMAGE STUDIO" editing/conversion application can also be downloaded and installed in your computer system, enabling you to create a signature image for your car interior.

**CUSTOMIZE**

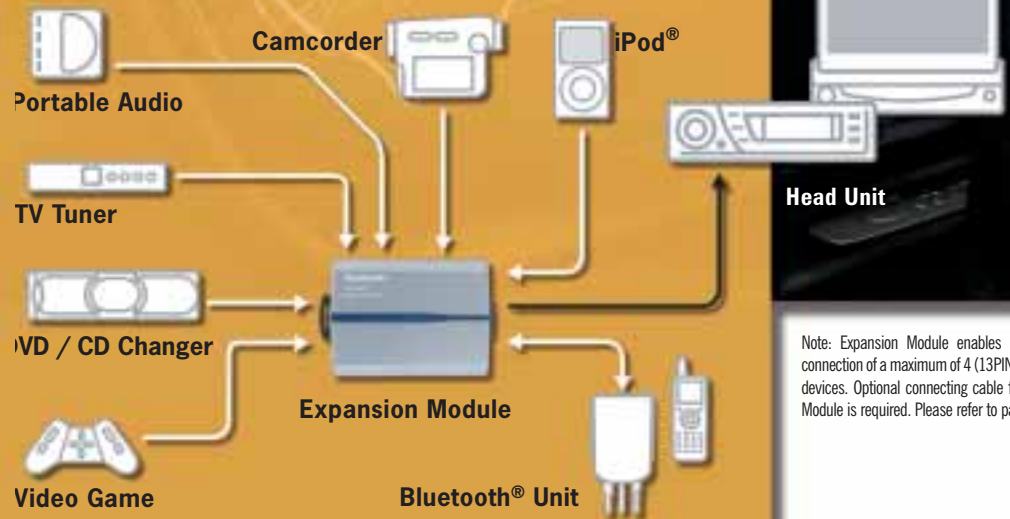


## EXPAND & CONNECT

### Plug into Variety

Plug and play on the road! Panasonic brings the age of networking and expanded multimedia content to in-car entertainment with unprecedented connectivity and compatibility.

### Expansion Module Connection



Note: Expansion Module enables simultaneous connection of a maximum of 4 (13PIN) and 1(RCA) devices. Optional connecting cable for Expansion Module is required. Please refer to page 29.



**CY-EM100N**  
Expansion Module

**Our 2006 models introduce expanded wired and wireless connectivity with a broad range of devices and the ability to explore a new world of in-car entertainment possibilities. Combined with expanded compatibility with the latest media and compressed data formats and our intuitive media management interface, our new systems offer unparalleled freedom of choice.**



## Expansion Module – “Plug and Play” Hub

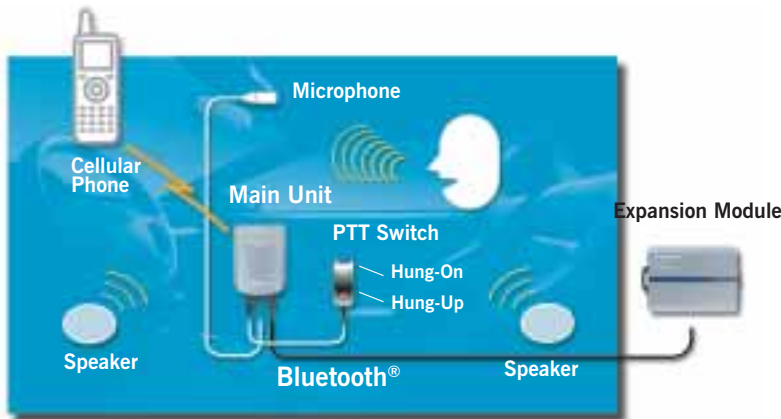
Panasonic opens the door to connectivity with the launch of the revolutionary Expansion Module. Ever since we first brought multimedia entertainment into the car cabin, consumers have been saying things like, “I wish I could show you what’s in my camcorder;” and “If only I could plug in a real game console”. More recently, “It would be great to access the thousands of tunes in my iPod®!”

Panasonic has been listening. The industry-first Expansion Module is our easy and elegant solution to all your wishes. Once connected to any of our new top-of-the-line head units, the Expansion Module becomes your in-car hub. Imagine! Plug in and play mini-DV tapes over our new overhead monitor. Plug in and play the latest video game titles on a state-of-the-art console. Plug in a DVD changer and play your movie collection. And of course, it is also ready for the ubiquitous iPod®, giving you easy access to your huge library of music, audio books and podcasts.



## Bluetooth® Unit - “Hands Free” Safety

Our Bluetooth® expansion kit is a complete solution for anyone who uses a mobile phone behind the wheel. The kit has everything you need to connect a Bluetooth®-ready mobile phone for safe “hands free” operation including a handy Push-to-Talk switch and a microphone with easy mounting bracket. It can be easily connected directly to our new head units or Expansion Module.



## WMA, MP3, and Smart File Management

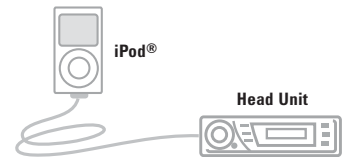
Play music stored in the popular MP3 (MPEG Layer-3) audio compression format or the new Windows Media Audio (WMA) – the advanced format that delivers near-CD audio quality in only half the space of an MP3 file. Panasonic lets you do both! MP3 and WMA music files can be downloaded from online music stores via the Internet or “ripped” from your CD library. Then just create a custom disc of your favourite tracks by burning them onto a CD-R or CD-RW for easy loading in the Panasonic car audio system. Of course if you have our new iPod®-ready system, just load your iPod® and connect.

Your CD-R or CD-RW can be packed with up to 20 CDs of songs, giving you access to a vast selection of music. The familiar PC-like interface of Panasonic's powerful file management system makes it easy to navigate through a maximum of 999 files and folders per disc. Navigation of the tree of folders and files is simple, and the user can instantly call up the display of ID tag information such as artist names and track titles for quick confirmation. The system also offers one-touch selection of six convenient Play modes: Random, Repeat, Scan, Folder Random, Folder Repeat, and Folder Scan.



### Made for iPod®

The phenomenon of the iPod® has changed the way people enjoy music. Panasonic now lets you share your iPod® music collection with everyone in the car. Our new upper-end head units connect with the iPod® either directly via an optional cable or the Expansion Module. Any iPod® with a Dock connector can be connected. (As of January 2006)



**iPod® ▶ Head Unit** Directly connect your iPod® to our new line of high-end head units. For more connectivity, just add the Expansion Module.

**DVD / CD Changer ▶ Head Unit** Enjoy the convenience of easy selection of movies and musics with a DVD/CD Changer directly connected to our innovative head unit lineup.

\* iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



**Bluetooth® Unit ▶ Head Unit** Experience the freedom of wireless connections by directly plugging the new Bluetooth® unit into our new head unit.

### Bluetooth®

The Bluetooth word mark and logo are owned by the Bluetooth SIG, Inc. and any use of such marks by Matsushita Electric Industrial Co., Ltd. is under license. Other trademarks and trade names are those of their respective owners.



### FRONT AUX Input

For easy connection of external devices like iPod® and other external audio devices, the unit features a front AUX input. More connectivity plus user-friendly design is what the new lineup of Panasonic head units offers you. An optional mini-pin jack cable for the head unit is required.



### Folder Tree Navigation

The same familiar hierarchy of folders and files that makes finding documents easy and intuitive on your PC has been adopted for management and navigation of compressed music files.

## WMA MP3 CD PLAYER / RECEIVERS



### **Pump the Power!**

*Panasonic Full Digital is the power to reproduce the most delicate nuances with crystal clarity. And when it's time to rock, our digital amps pump it with power to spare and free from distortion.*

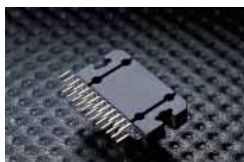


**DIGITAL AMP 70W x4**

**MOSFET 50W x4**

**MOSFET 50W x 4**

Boasting 4-channels - each with up to 50W of distortion-free power, this built-in amplifier is the driving force for our high-fidelity audio reproduction

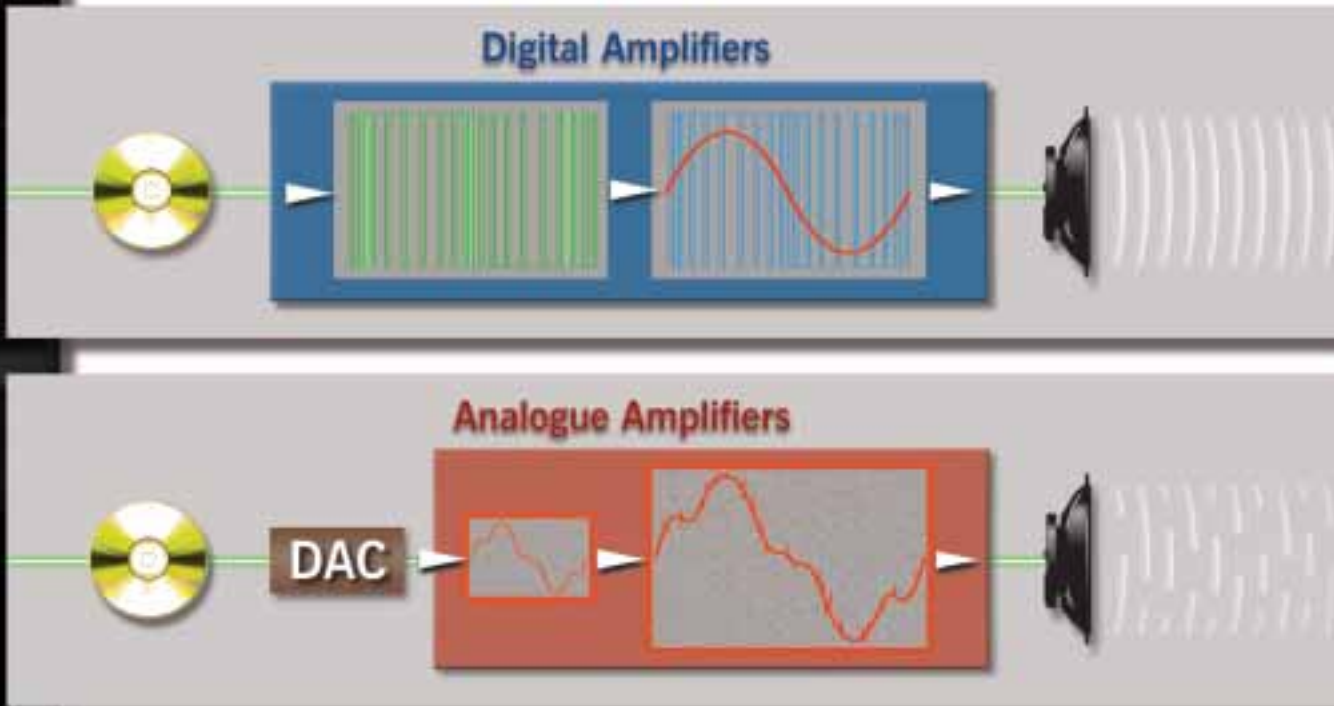


**Panasonic's Full Digital approach to audio system design is all about power! More power to amps! Clean power free of noise and distortion! Cool power for better efficiency and more compact design! Processing power for remarkably clear radio reception! Behind the elegant arc styling and harnessed by our easy-to-use interface, it waits to be unleashed.**

### **Full Digital - Amplify the Quality**

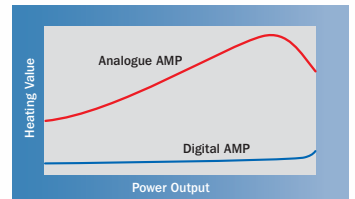
The original all-digital design of Panasonic's top-of-the-line models for 2006 delivers maximum performance from almost any speaker system with superb stability. Conventional systems convert a signal from a digital source into analogue and then amplify it with an analogue amp. The result is noise, distortion and inefficiencies. By directly amplifying the digital signal, Panasonic's digital amp avoids this extra process for a cleaner sound. It also incorporates special integrated circuits to further suppress noise and express delicate nuances with astounding clarity. Featured in our flagship CD Player/Receiver, this direct processing and amplification of CDs and other digital sound sources reproduces audio with amazing fidelity.





### Digital Amp – It’s Truly Cool Technology

Imagine 70W x 4 channels of pure digital power! Panasonic’s flagship "Full Digital" amp delivers that and more. Unlike a conventional analogue amp with a 50% efficiency rating, Panasonic’s advanced amp design achieves a 90% rating. While half of the power of conventional amps is lost in heat generation, our “cool” digital amps deliver almost every watt of power to your ears without noise, distortion or waste heat. The reduced heat generation also means that bulky and heavy cooling fins are unnecessary, allowing us to create a more compact and lightweight component.



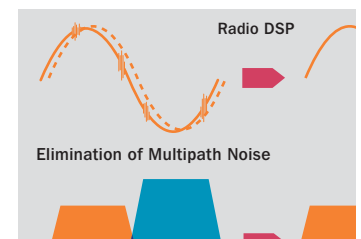
**Intelligent RDS (Radio Data System)**  
The Quick AF feature of this system actually memorises the strongest AF (Alternate Frequency) for recall when revisiting an area. Enjoy simplified tuning and data broadcast reception with selectable sensitivity settings to compensate for "strong" urban signals and "weaker" signals in suburban/rural areas.

### Radio DSP – Crystal Clear Reception

Panasonic’s Radio DSP is more than a digital reception-ready solution. Positioned between the tuner and the amplifier, it provides a wide range of benefits including immunity to multipath signal interference and pulse noise, signal conditioning, and improved acoustic effects. It also eliminates bothersome interference from adjacent channels. The digital conversion technology combined with sophisticated signal processing enhances the radio listening experience with superb clarity. Also users can choose from three easy noise suppression presets for both FM and AM radio reception: Auto, Mid and Narrow, or fine tune the IF filter in up to 16 steps for an ideal setting.

### THROUGH Mode – Another “User-First” Idea

For the many people who use an FM Modulator to play portable devices through their car audio systems, Panasonic’s Radio DSP features the THROUGH Mode. Found in our latest models, this FM Modulator THROUGH Mode delivers even clearer reception from portable digital music players and other audio devices equipped with FM transmission capability. The unique THROUGH Mode keeps the original sound quality intact by negating the high-frequency compensation that is normally applied by the tuner.



## “See” the Music!

*Panasonic precision sound imaging fills the senses with music. The mind’s eye sees the stage, bones resonate to the beat, and skin tingles with the electricity of the performance. The essence of sound quality!*



**DUAL PREAMP** **DUAL PREAMP**  
**5v/60Ω** **2.5v/200Ω**

### Dual Preamp Outs

Front and rear dual preamp outs (5V, 2.5V or 2V) for a wide dynamic range and high S/N ratio, and fader control to provide balance for built-in and outboard amps.



### Subwoofer Ready

Subwoofer out (5V or 2.5V) for easy addition of an external amp and one or more subwoofers to boost bass.

**Panasonic audio enhancement technology changes the way you listen to music. The sound imaging is so real you can almost touch it. Panasonic now offers advanced audio enhancement technologies across the entire player / receiver lineup.**

## SRS CS-Automotive\*

– For the Audio Sweet Spot

The car cabin environment is a hostile environment for audio excellence. Low-positioned speakers, lack of a centre speaker and other problems prevent conventional systems from delivering a natural sound. Featured in our flagship models, Circle Surround (CS) Automotive from SRS Labs responds to the challenge with the highly advanced Circle Surround II\* Decoder for a much broader audio "sweet spot" and powerful features like SRS FOCUS\* sound elevation technology, SRS TruBass\* for cinema-like bass and "Mix to Rear" for an improved rear-seat sound experience.



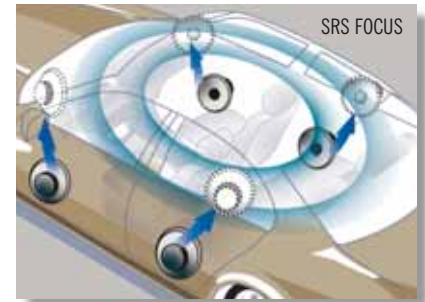
## Circle Surround II®

– Performance Beyond Your Imagination

At the heart of SRS CS Automotive is Circle Surround II, which utilizes a high-performance and extremely versatile surround decoder. It can generate 360° multi-channel audio from a stereo source and produce a Phantom Centre, eliminating the need for a centre speaker. User can easily select one of 3 ready-to-use modes: Cinema, Music and Mono, and enjoy the equivalent of 5.1 ch from 4 speakers with satisfying front stage imaging.

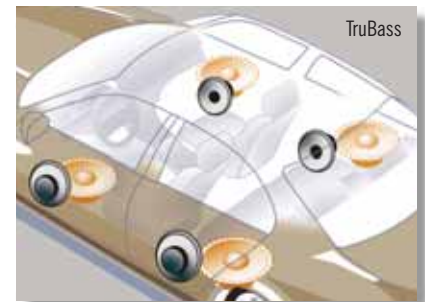
## SRS FOCUS® – Elevate Performance

Your speakers may be at your feet, but this audio enhancement technology puts the sound field up and in front of you, just where you expect it to be. SRS FOCUS not only shapes frequency characteristics to enable perception of the desired image height, but also improves clarity of higher frequencies. And to ensure the ideal sound image for the unique speaker locations in your car, it is customizable.



## TruBass® – Mind Over Matter

Don't boost bass and blow your speakers! TruBass uses the principles of psychoacoustics to enhance perception of deeper, richer bass – as much as an octave below the actual frequency limitations of the speakers. By using all 4 channels for bass reproduction, it immerses the listener in exciting bass.



## “Mix to Rear” – Every Seat is the Best Seat

For a richer sound in the rear seat, “Mix to Rear” mixes the front channel sound into the rear channels, compensating for the thin sound in the rear of the sound field. Now passengers in the back seat can enjoy the full experience of your high-fidelity audio system.



## SRS WOW®\* – The Name Says It All!


The new mid-range lineup of player/receivers also boasts an award-winning SRS suite of audio enhancement technologies to dramatically improve audio performance. Sound enrichment of SRS WOW is remarkable especially with digitally compressed formats such as WMA and MP3. Creating the impression of improved dynamics and bass over existing speakers, it extends the sound field for a panoramic 3D audio image. With cutting-edge 3D sound enhancement Sound Retrieval System technology as its core, SRS WOW enhances your system performance with key technologies like TruBass® and FOCUS®, which are usually found only in high-end models.



## SRS TruBass® – For Big Bass from Any System

Our most affordable models for 2006 also feature SRS TruBass. This dynamic bass enhancement technology not only delivers deeper, richer bass from even small speakers, but also enhances the dynamics and warmth of the low and mid range of your music. Delivering a sound experience far beyond the capabilities of your system, our reasonably priced models with this advanced processing technology offer incredible cost performance.



\*“CS Automotive”, “Circle Surround II”, “FOCUS”, “TruBass”, “WOW”, SRS and  symbol are trademarks of SRS Labs, Inc.

## CQ-C8803N WMA MP3 CD Player / Receiver with 4096 Colour OEL Display



### Audio Section

70W x 4 High Power  
 Full Digital (Digital Amp/Radio DSP)  
 Sound Quality 9  
 Crossover  
 Mute / Attenuator  
 SBC-SW  
 SRS CS Auto  
 Separate Bass, Treble, Balance, Fader  
 5V / 60Ω Dual Preamp Outs  
 5V Subwoofer Out

### Tuner Section

Radio DSP with FM Transmitter Mode  
 18FM, 6MW(IW) Station Presets  
 Selectable AF Sensitivity  
 Auto Preset Memory with Scan  
 Seek Tuning with DX / Local Switch

### CD Player Section

CD-R / CD-RW Playback  
 WMA / MP3 Playback  
 ID3 Tag  
 File Tree Display  
 CD Text Display  
 3-Beam Hologram Pickup  
 Scan, Search, Repeat and Random Play  
 Pause

### Changer Control Section

CD Changer Control  
 DVD Changer Control

### Other Features

Motorized Display Face  
 Maximum 4096 Colour OEL Display :  
 Customize  
 Blue ARC Illumination  
 Button Illumination Colour : Blue  
 AUX Input  
 Remote Control In  
 Face Colour : Chrome Black  
 Removable Faceplate  
 Remote Control Unit  
 ISO Connector  
 Expansion Module Ready  
 iPod® Ready  
 Bluetooth® Ready



Remote Control

# CQ-C8403N WMA MP3 CD Player / Receiver with 4096 Colour OEL Display



## Audio Section

50W x 4 High Power  
 MOSFET Output Stage  
 Sound Quality 7  
 Crossover  
 Mute / Attenuator  
 SBC-SW  
 SRS WOW  
 Separate Bass, Treble, Balance, Fader  
 5V / 60Ω Dual Preamp Outs  
 5V Subwoofer Out

## Tuner Section

18FM, 6MW(IW) Station Presets  
 Selectable AF Sensitivity  
 Auto Preset Memory with Scan  
 Seek Tuning with DX / Local Switch

## CD Player Section

CD-R / CD-RW Playback  
 WMA / MP3 Playback  
 ID3 Tag  
 File Tree Display  
 CD Text Display  
 3-Beam Hologram Pickup  
 Scan, Search, Repeat and Random Play  
 Pause

## Changer Control Section

CD Changer Control  
 DVD Changer Control

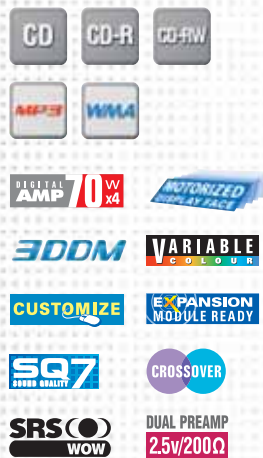
## Other Features

Motorized Display Face  
 Maximum 4096 Colour OEL Display :  
 Customize  
 Blue ARC Illumination  
 Button Illumination Colour : Blue  
 AUX Input  
 Remote Control In  
 Face Colour : Chrome Black  
 Removable Faceplate  
 Remote Control Unit  
 ISO Connector  
 Expansion Module Ready  
 iPod® Ready  
 Bluetooth® Ready



Remote Control

## CQ-C7703N WMA MP3 CD Player / Receiver



### Audio Section

70W x 4 High Power  
Digital Amp  
Sound Quality 7  
Crossover  
Mute/Attenuator  
SBC-SW  
SRS WOW  
Separate Bass, Treble, Balance, Fader  
2.5V/200Ω Dual Preamp Outs  
2.5V Subwoofer Out



### Tuner Section

18FM, 6MW(LW) Station Presets  
Selectable AF Sensitivity  
Auto Preset Memory with Scan  
Seek Tuning with DX/Local Switch

### CD Player Section

CD-R/CD-RW Playback  
WMA/MP3 Playback  
ID3 Tag  
File Tree Display  
CD Text Display  
3-Beam Hologram Pickup

Scan, Search, Repeat and Random Play  
Pause

### Changer Control Section

CD Changer Control  
DVD Changer Control

### Other Features

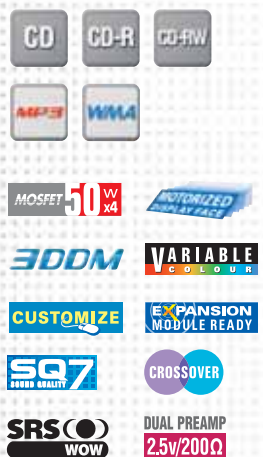
Motorized Display Face  
Variable Colour Display  
3DDM Display : Customize  
LCD Illumination Colour : Variable  
Button Illumination Colour : Variable

ARC Illumination : Variable  
AUX Input  
Remote Control In  
Face Colour : Chrome Black  
Removable Faceplate  
Remote Control Unit  
ISO Connector  
Expansion Module Ready  
iPod® Ready  
Bluetooth® Ready



Remote Control

## CQ-C7303N WMA MP3 CD Player / Receiver



### Audio Section

50W x 4 High Power  
MOSFET Output Stage  
Sound Quality 7  
Crossover  
Mute/Attenuator  
SBC-SW  
SRS WOW  
Separate Bass, Treble, Balance, Fader  
2.5V/200Ω Dual Preamp Outs  
2.5V Subwoofer Out



### Tuner Section

18FM, 6MW(LW) Station Presets  
Selectable AF Sensitivity  
Auto Preset Memory with Scan  
Seek Tuning with DX/Local Switch

### CD Player Section

CD-R/CD-RW Playback  
WMA/MP3 Playback  
ID3 Tag  
File Tree Display  
CD Text Display  
3-Beam Hologram Pickup

Scan, Search, Repeat and Random Play  
Pause

### Changer Control Section

CD Changer Control  
DVD Changer Control

### Other Features

Motorized Display Face  
Variable Colour Display  
3DDM Display : Customize  
LCD Illumination Colour : Variable  
Button Illumination Colour : Variable

ARC Illumination : Variable  
AUX Input  
Remote Control In  
Face Colour : Chrome Black  
Removable Faceplate  
Remote Control Unit  
ISO Connector  
Expansion Module Ready  
iPod® Ready  
Bluetooth® Ready



Remote Control



# CQ-C5303N WMA MP3 CD Player / Receiver



### Audio Section

- 50W x 4 High Power
- MOSFET Output Stage
- Sound Quality 3
- Mute / Attenuator
- SRS TruBass
- Separate Bass, Treble, Balance, Fader
- 2.5V / 200Ω Dual Preamp Outs

### Tuner Section

- 18FM, 6MW(LW) Station Presets
- Selectable AF Sensitivity
- Auto Preset Memory with Scan
- Seek Tuning with DX / Local Switch

### CD Player Section

- CD-R / CD-RW Playback
- WMA / MP3 Playback
- ID3 Tag
- CD Text Display

- 3-Beam Hologram Pickup
- Scan, Search, Repeat and Random Play
- Pause

### Changer Control Section

- CD Changer Control

### Other Features

- Motorized Display Face
- LCD Illumination Colour : Black
- Button Illumination Colour : Red / Green

- AUX Input
- Remote Control In
- Face Colour : Chrome Black
- Removable Faceplate
- Remote Control Unit
- ISO Connector
- Expansion Module Ready
- iPod® Ready
- Bluetooth® Ready



Remote Control



## CQ-C3503N MP3 CD Player / Receiver



### Audio Section

50W x 4 High Power  
Sound Quality  
Mute/Attenuator  
SRS TruBass  
Separate Bass, Treble, Balance, Fader  
2.5V/200Ω Dual Preamp Outs

### Tuner Section

18FM, 6MW (LW) Station Presets  
Selectable AF Sensitivity  
Auto Preset Memory with Scan  
Seek Tuning with DX/Local Switch

### CD Player Section

CD-R/CD-RW Playback  
MP3 Playback  
ID3 Tag  
CD Text Display  
3-Beam Hologram Pickup  
Scan, Search, Repeat and Random Play  
Pause

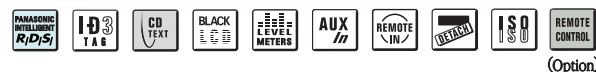
### Other Features

LCD Illumination Colour : Black  
Button Illumination Colour : Red / Green  
Front AUX Input  
Remote Control In  
Face Colour : Silver  
Removable Faceplate  
Remote Control Unit  
ISO Connector



Remote Control

## CQ-C3303N MP3 CD Player / Receiver



(Option)

### Audio Section

50W x 4 High Power  
Sound Quality  
Mute/Attenuator  
Separate Bass, Treble, Balance, Fader  
2.5V/200Ω Dual Preamp Outs

### Tuner Section

18FM, 6MW (LW) Station Presets  
Selectable AF Sensitivity  
Auto Preset Memory with Scan  
Seek Tuning with DX/Local Switch

### CD Player Section

CD-R/CD-RW Playback  
MP3 Playback  
ID3 Tag  
CD Text Display  
3-Beam Hologram Pickup  
Scan, Search, Repeat and Random Play  
Pause

### Other Features

LCD Illumination Colour : Black  
Button Illumination Colour : Red  
Front AUX Input  
Remote Control In  
Face Colour : Silver  
Removable Faceplate  
Remote Control Unit (Option)  
ISO Connector



Remote Control (Option)

## CQ-C1323N

### MP3 CD Player / Receiver



DUAL PREAMP  
2.5V/200Ω

#### Audio Section

50W x 4 High Power  
Sound Quality  
Mute  
2.5V/200Ω Dual Preamp Outs



#### Tuner Section

18FM, 6MW(IW) Station Presets  
Selectable AF Sensitivity

#### CD Player Section

CD-R/CD-RW Playback  
MP3 Playback, ID3 Tag

CD Text Display

#### Other Features

LCD Illumination Colour : Blue (C1323N),  
Black (C1313N and C1303N)  
Button Illumination Colour : Red (C1323N  
and C1313N), Green (C1303N)



CQ-C1313N



CQ-C1303N

Front AUX Input  
Remote Control In  
Face Colour : Chrome Black  
Removable Faceplate  
Remote Control Unit (Option  
8 keys)  
ISO Connector



Remote Control  
(Option)

## CQ-C1312N

### WMA MP3 CD Player / Receiver



#### Audio Section

50W x 4 High Power  
Sound Quality  
Mute  
2.5V / 200Ω Preamp Out



#### Tuner Section

18FM, 6MW(IW) Station Presets  
Selectable AF Sensitivity

#### CD Player Section

CD-R / CD-RW Playback  
WMA / MP3 Playback  
ID3 Tag  
CD Text Display

#### Other Features

LCD Illumination Colour : Black  
Button Illumination Colour : Red  
Remote Control In  
Face Colour : Black  
Removable Faceplate  
ISO Connector

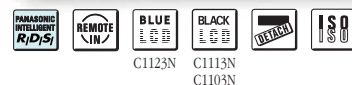
## CQ-C1123N

### CD Player / Receiver



#### Audio Section

45W x 4 High Power  
Sound Quality  
Mute



#### Tuner Section

18FM, 6MW(IW) Station Presets  
Selectable AF Sensitivity

#### CD Player Section

CD-R / CD-RW Playback

#### Other Features

LCD Illumination Colour : Blue (C1123N),  
Black (C1113N and C1103N)



CQ-C1113N



CQ-C1103N

Button Illumination Colour : Red (C1123N  
and C1113N), Green(C1103N)  
Remote Control In  
Face Colour : Chrome Black  
Removable Faceplate  
ISO Connector



## The Digital Way to Get There!

Just enjoy the drive. Panasonic's "smart" navigation system makes travelling to new destinations a stress-free experience. And less worry about the next turn means more attention on the road.



CQ-VD7003N



CN-DV2300N



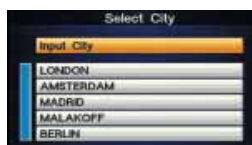
Full Information Map



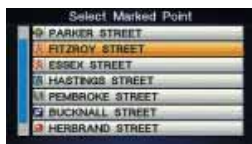
POI Search Menu (Petrol Station)



POI Search Menu (Hotels)



Address Search Menu

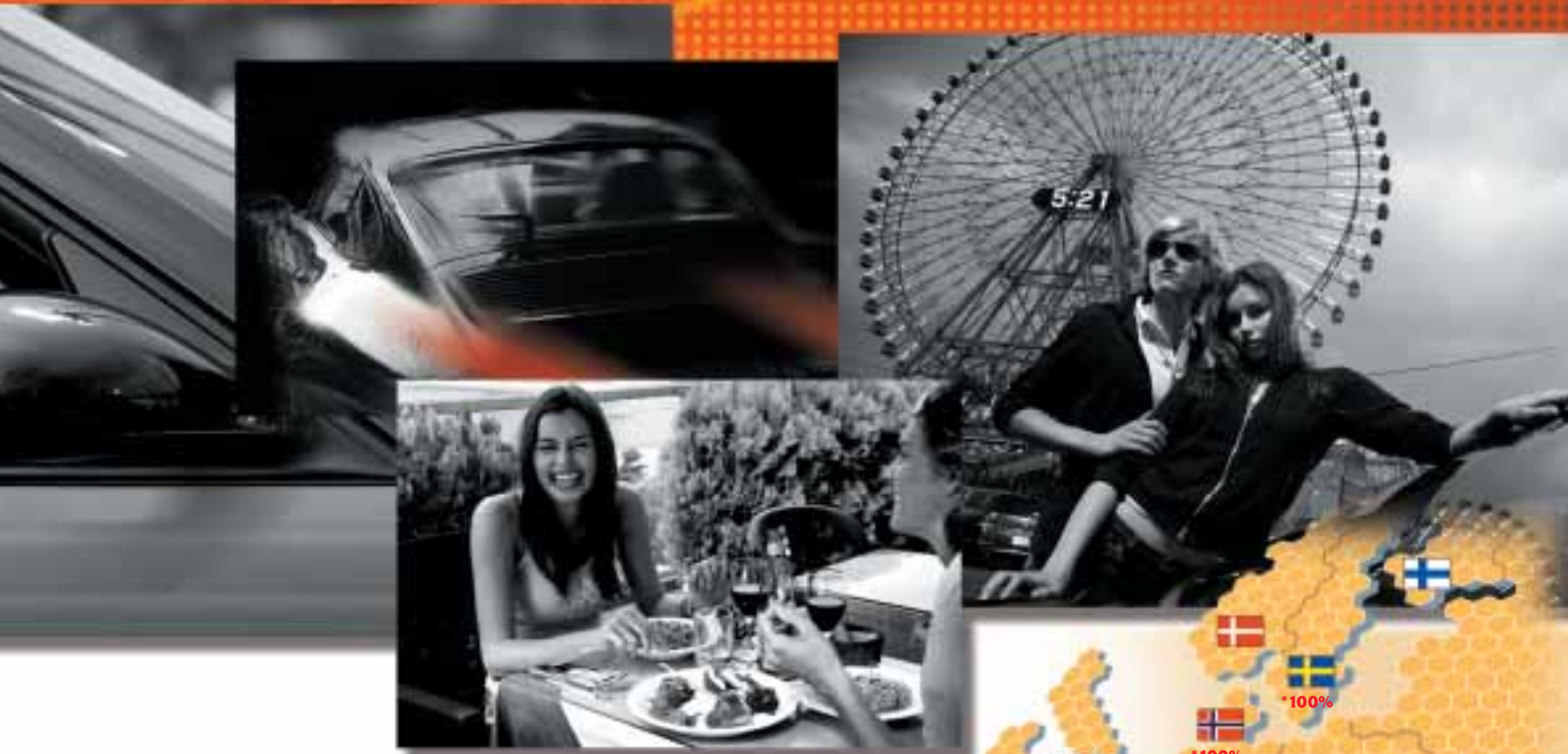


Marked Point Search Menu

**Panasonic digital car navigation technology tells you more than where you are, where your destination is, and how to get there. It provides optimum routing for the dynamic road environment as well as access to a database of petrol stations, restaurants and other points of interest along the way.**

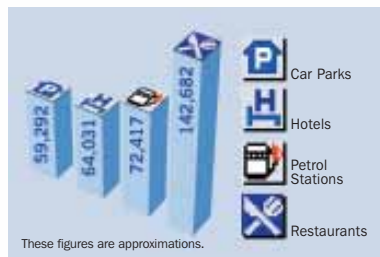
### DVD-ROM Navigation – A Continent on a Disc

The giant capacity of a single DVD-ROM can hold about seven CDs of data – enough to store all the navigation maps and data necessary to travel virtually anywhere in Europe. Just set a destination in any of 17 countries and you are ready to go. Regions include Austria, Benelux, Czech, Denmark, Finland, France, Germany, Italy, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom. Just load the disc in our versatile DVD-ROM navigation system and you have maps for almost all of Europe as well as voice and menu data in 8 languages. Compatibility with readily available discs in the SDAL (Shared Database Access Library) format lets you keep your navigation system up to date with the constantly changing road environment.



## POI Database – Help On the Way

Along the way, it is easy to find points of interest (POI) with the handy POI database and search function. The database holds over 910,000 POI across Europe, conveniently organized into 45 categories including hotels, parking facilities, petrol stations, and restaurants.



The Panasonic DVD Car Navigation System and a single DVD-ROM provide safe and secure navigation to and through almost every country in Europe.

## Versatile Route & Destination Setting

Panasonic navigation lets you set destinations by postcode, and even plan multi-destination routes. And for quick selection and recall of destinations, the "Marked Point" function lets you organise and even assign names or icons to as many as 100 points on the map, and the system automatically saves the "history" of your 100 most recent destinations for easy recall. Optimized route planning for up to 5 "via" points is another example of how the versatile interface makes navigation so easy.

## TMC – Dynamic Response

Combining navigation with real-time traffic information from the Traffic Message Channel (TMC) system\*, Panasonic provides valuable intelligence and plots the safest and quickest course to your destination around traffic problems. The TMC system delivers accurate real-time data on weather, construction, disasters and other road conditions and displays them on the map. Our digital DVD navigation system highlights potential bottlenecks on your map with familiar and easy-to-understand European-standard traffic icons. For a detailed text description of the problem and its impact, just click on the icon. You can then request the system to suggest alternative routes. A handy remote control with a numeric keypad makes operation as smooth as your route. Real-time DVD car navigation systems – just another smart idea for life on the road from Panasonic.

\* Information provided is dependent on the local TMC data provider and transmission conditions.



Road Condition Icons



TMC Information



**CY-TM100N** Dynamic Navigation Unit  
 + Built-In RDS-TMC Tuner (Traffic Message Channel)  
 + Decoder for Real-Time Display of Traffic Information  
 + Compact Size for Versatile Installation



**Let's Go  
to the Movies!**

*Thrills and chills! Tears and laughter! Only the seat belt keeps you from falling from the edge of your seat when Panasonic puts the show on the road.*



**Boasting unrivalled performance and a host of advanced functionality and features, the expanded Panasonic audio-visual lineup brings the rich diversity of digital entertainment to the road. Complete with surround sound, the cinema experience is so powerful you may want to enjoy all your movies in your car.**

**New Wide 6.5-inch Colour LCD –  
Designed for 2-DIN In-Dash Installation!**

Joining our popular line of 1-DIN units, our new wide 6.5-inch colour LCD is 2-DIN size for flush-fit in-dash installation. The wide-aspect LCD screen with 280,800 pixels and internal backlight offers a selection of display modes (NORMAL, FULL, ZOOM, and JUST) to support made-for-TV or letterbox format in the 4:3 aspect ratio. It also features compatibility with our new Expansion Module and is iPod® and Bluetooth® ready! Most of all the quality of the viewing experience is assured by state-of-the-art colour LCD technology, boasting natural colour with a high level of brightness.

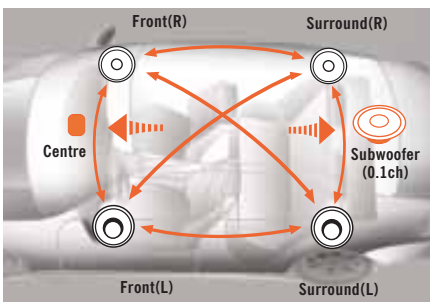


## Dolby Digital & dts – State-of-the-art Cinema on Wheels

The realism of Dolby Digital and dts multiplies the visual impact of every scene. Supporting up to 5 discrete channels and an optional sixth channel for low-frequency effects, Dolby Digital 5.1 is the surround sound standard for home theatres. The alternative dts format with its higher data rates is also supported.

## SRS CS Automotive – Get 5.1ch from 4ch Systems

This powerful technology multiplies the performance of your existing components with sound image elevation, an enlarged sweet spot, and other amazing performance enhancers. SRS CS Automotive applies the magic of psychoacoustic principles to create the perception of rich bass pumped out of a virtual centre speaker from systems with only 4 channels. You experience the dramatic surround sound of 5.1ch for the reasonable cost of a 4ch system. Add our new single in-dash player/monitor to your system, and you can enjoy not only DVD-Video, CD, WMA/MP3, and FM/MW radio, but also upgraded audio performance.



## GUI Touch Panel – See, Touch & Enjoy!

Everything is exactly where you would expect. The menus, icons and simple layout of the intuitive graphical user interface make operation so easy to understand, you may never open the manual. No fumbling for buttons nor time lost figuring out what to do. You grasp the menu in an instant and lightly touch the screen. Your attention never strays from the road.



## Other Features

In designing our latest player/monitors, Panasonic has considered every aspect. We built in an FM/MW tuner complete with Radio DSP! We made sure there is power to spare by integrating a MOSFET 50W x 4 amp! Also they are ready to connect to both the Expansion Module and iPod®! We have even included capability to control both our new DVD changer and AUX right on the touch panel, 4-digit ID code security for your peace of mind, and the user-friendly rotary knob controller for a complete and extensible solution.



"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



"dts" and "dts Digital Surround" are trademarks of Digital Theatre Systems, Inc.



**DSP (Digital Signal Processor)**  
Built-in DSP with 20-bit precision A/D and D/A converters –the same featured in Panasonic high-end home audio systems, for advanced sonic environment control and vivid sound.



## Overhead Monitor/Player – Thinner Stylish Profile

Installed in the ceiling and out of the way, our new monitor/player with a flip-down 9-inch screen is almost a third thinner. The built-in player is not only compatible with DVD-Video, CD and CD-R/RW, but also plays MP3 music tracks, MPEG4 compressed video and JPEG still image content. A built-in infrared transmitter can send the audio signal to wireless headphones, allowing enjoyment of different content in the front and back seats as well as avoiding tangled cords. Other handy features include dual VTR inputs for connection to a variety of RCA-compatible video sources such as gaming consoles and camcorders.

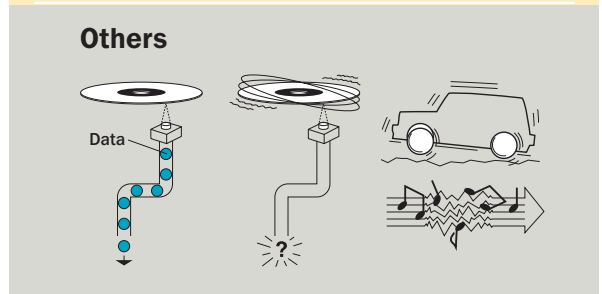
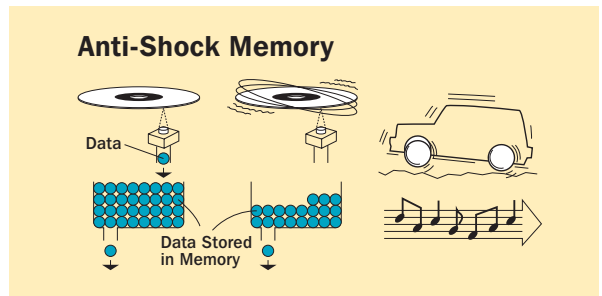


### DVD / CD Changer Control

Conveniently operate all functions of a Panasonic DVD/CD changer from the front panel with the easy-to-install DVD/CD Changer Control. (No additional equipment required)

## DVD Changer

For easy access to a variety of media from DVD Video to CD and CD-R/RW, just load up the changer and choose from a menu of movies and music. Our newest in-dash player/monitor models are DVD changer-ready and provide easy touch-panel selection. Enjoy not only standard DVD Video and music CDs, but also Video CDs and custom-burned CD-R/RW collections of MP3 tunes. It also features an Anti-Shock Floating Mechanism that isolates the sensitive laser pickup from external vibrations to ensure skip-free performance.



## Wireless Headphones

No more cable tangles! A built-in infrared transmitter sends the audio signal to wireless headphones. Combined with Panasonic's Private Mode, front and rear passengers can enjoy different entertainment content.



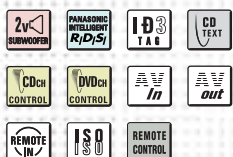
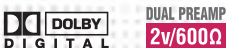
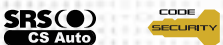


# CQ-VD7003N

In-Dash 7" Widescreen Colour LCD Monitor DVD Player / Receiver



7" WIDE



### Colour LCD Monitor

7" Widescreen  
16:9 Aspect Ratio  
with Selectable Display Modes (NORMAL / FULL / JUST / ZOOM)  
336,960-Pixel High-Definition Screen  
Auto PAL / NTSC / Secam Selection  
Fully-Power-Operated Flip-Up  
Automatic Flip-Up / Down by ACC key  
Automatic & Manual Dimmer

### DVD/CD Player Section

DVD Video, DVD-R / RW, Video CD and CD-R / CD-RW Playback  
5.1-Channel Dolby Digital / dts Surround Decoder  
WMA / MP3 Playback  
ID3 Tag  
CD Text Display  
Automatic Disc Loading  
Scan, Search, Repeat and Random Play  
Pause

Capability to playback DVD-R/DVD-RW discs recorded in video format (Video Mode) only. Playback of DVD-RW recorded in video recording format (VR Mode) is not possible.

### Audio Section

50W x 4 High Power  
MOSFET Output Stage  
SRS CS-Auto  
2V / 600Ω Dual Preamp Outs  
2V Subwoofer Out  
2V Centre Speaker Out

### RDS Tuner Section

Radio DSP with FM Transmitter Mode  
18FM, 6MW(LW) Station Presets  
Selectable AF Sensitivity  
Auto Preset Memory with Scan  
Seek Turning with DX / Local Switch

### Changer Control Section

CD Changer Control  
DVD Changer Control

### Other Features

Touch Panel Operation  
Graphical User Interface  
DVD Menu Direct Control  
Button Illumination Colour : Blue  
CODE Security  
Remote Control In  
Face Colour : Black  
Remote Control Unit  
ISO Connector  
Expansion Module Ready  
iPod® Ready  
Bluetooth® Ready



Remote Control



## CQ-VD6503N In-Dash 6.5" Widescreen Colour LCD Monitor DVD Player / Receiver



6.5" WIDE



### Colour LCD Monitor

6.5" Widescreen  
16:9 Aspect Ratio  
with Selectable Display Modes  
(NORMAL/FULL/JUST/ZOOM)  
280,800-Pixel High-Definition Screen  
Auto PAL/NTSC Selection  
Motorized Display Face  
Automatic and Manual Dimmer

### DVD/CD Player Section

DVD Video, DVD-R/ RW, Video CD and  
CD-R/CD-RW Playback  
5.1-Channel Dolby Digital/  
dts Surround Decoder  
WMA/MP3 Playback  
ID3 Tag  
CD Text Display  
Automatic Disc Loading  
Scan, Search, Repeat and Random Play  
Pause

### Audio Section

50W x 4 High Power  
MOSFET Output Stage  
SRS CS Auto  
2V/600Ω Dual Preamp Outs  
2V Subwoofer Out  
2V Centre Speaker Out

### RDS Tuner Section

Radio DSP with FM Transmitter Mode  
18FM, 6MW(LW) Station Presets  
Selectable AF Sensitivity  
Auto Preset Memory with Scan  
Seek Turning with DX/Local Switch

### Changer Control Section

CD Changer Control  
DVD Changer Control

### Other Features

Touch Panel Operation  
Graphical User Interface  
DVD Menu Direct Control  
Button Illumination Colour : Blue  
CODE Security  
Remote Control In  
Face Colour : Silver  
Auto Muting : Navigation  
Remote Control Unit  
ISO Connector  
Expansion Module Ready  
iPod Ready®  
Bluetooth Ready®



Remote Control

### CY-TUP153N

TV Tuner Unit



PAL / SECAM ( except L-SECAM ) System  
12 Preset Channels for Each Bands  
4-line Diversity Antenna (supplied)  
Expansion Module Ready



# CQ-VHD9401N

Overhead 9" Widescreen Colour LCD Monitor with Built-in DVD Player



### Colour LCD Monitor

9" Widescreen  
16:9 Aspect Ratio  
with Selectable Display Modes  
(NORMAL/FULL/JUST/ZOOM)  
336,960-Pixel High-Definition Screen  
Auto PAL/NTSC Selection  
Adjustable Flip-Down Angle  
and Left/Right Swivel  
Automatic and Manual Dimmer

### DVD/CD Player Section

DVD Video, DVD-R/RW,  
Video CD and CD-R/CD-RW Playback  
5.1-Channel Dolby Digital/  
DTS Surround Decoder (2ch down mix)  
MP3 Playback  
ID3 Tag  
Automatic Disc Loading  
Scan, Search, Repeat and Random Play  
Pause

### Other Features

Infrared Audio Output  
for Wireless Headphones  
(1 Set Supplied)  
GAME Button on Wireless Remote  
IR Transmitter  
2 Sets of AV-In (RCA)  
1 Set of AV-Out (RCA)  
Digital Audio Output (Optical)  
for Dolby Digital/dts  
Face Colour : Grey  
Built-in Reading Lights  
Universal Trim Ring  
Remote Control Unit  
ISO Connector



Remote Control



## CY-VM7203N

In-Dash 7" Widescreen  
Colour LCD Monitor

7"  
WIDE

AV In AV out REMOTE CONTROL

CODE SECURITY



### Features

7" Widescreen  
16:9 Aspect Ratio with Selectable Display Modes (NORMAL/FULL/ZOOM/CINEMA)  
336,960-Pixel High-Definition Screen

Auto PAL / NTSC / SECAM Selection  
Automatic Flip-Up / Down by ACC key  
Automatic and Manual Dimmer  
CODE Security



Remote Control

## CN-DV2300N

DVD Car Navigation System

DVD  
ROM



CY-VM7203N  
Recommended Combination

Closed Open



Remote Control with 10-key



### DVD Hardware

Powerful 32-Bit RISC Processor and High-Speed Drive  
GPS Receiver  
Compact Gyro-Sensor  
Vehicle Speed Sensor  
1-DIN Size  
Intelligent Map Matching

POI and Information Display  
Comprehensive Map/Road Information  
SDAL Format DVD Map Disc by Navtech (Navigation Technology)  
Most of Europe on One DVD Disc  
POI and Post Code Information  
Intelligent Route Search and Guidance  
Destination Input and Search by Address/Postal Code/POI/History/  
Marked Point  
Auto Reroute

Route Guidance in 8 Languages (Danish, Dutch, English, French, German, Italian, Spanish and Swedish)  
Automatic Intersection Zoom

### Other Feature

Direct Postal Code Input via 10-Key Pad on Joystick Remote Control Unit

### On-Screen Map Display

12-Step Map Scale and Orientation  
Selectable Map Colour

## CX-DH801N

8-Disc DVD Changer

DVD  
VIDEO

CD CD-R CD-RW

VIDEO CD MP3

DOLBY DIGITAL

dts DIGITAL OUT

ID3 TAG REMOTE IN



Remote Control

### Features

DVD Video, Video CD and CD-R/CD-RW Playback  
Digital Audio Output (Optical) for Dolby Digital/dts  
MP3 Playback

ID3 Tag  
Vibration-Resistant Optical Deck with Anti-Shock Memory  
Anti-Shock Floating Mechanism  
Leaming Skip

Digital Servo Optical Control  
Complete with 8-Disc Magazine  
Remote Control Unit

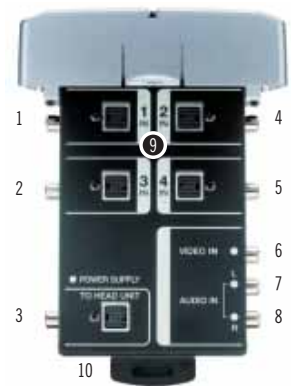
## CY-EM100N Expansion Module



**CA-CC30N**  
DVD / CD Changer Conversion Cable



**CA-DC300N**  
iPod® Connection Cable



- 1, 2 Video Input
- 3 Video Output
- 4, 5 Video Input
- 6 Video In
- 7 Audio In L
- 8 Audio In R
- 9 System-Up Connector (13 Pin Input x 4 Terminals)
- 10 To Head Unit

CY-EM100N	
Power Supply	DC 12V(11-16V), test voltage 14.4V, negative ground
Current Consumption	Less than 2.2A
Dimensions (W x H x D)	130 x 100 x 48.5mm
Weight	0.4 kg

## CY-BT100N Bluetooth® Unit



Main Unit



**PTT Switch**  
( Push to Talk ) Switch



**Microphone**



- 1. PTT (Push to Talk) Switch Connector  
To the PTT Switch
- 2. Microphone Connector  
To the Microphone with Bracket
- 3. System-Up Connector  
To a Head Unit or a Port of Expansion Module

1. 2. 3.

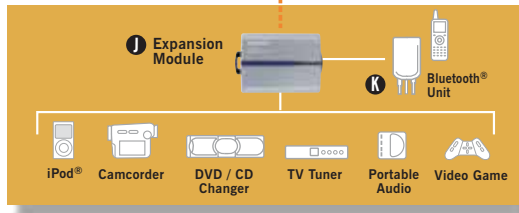
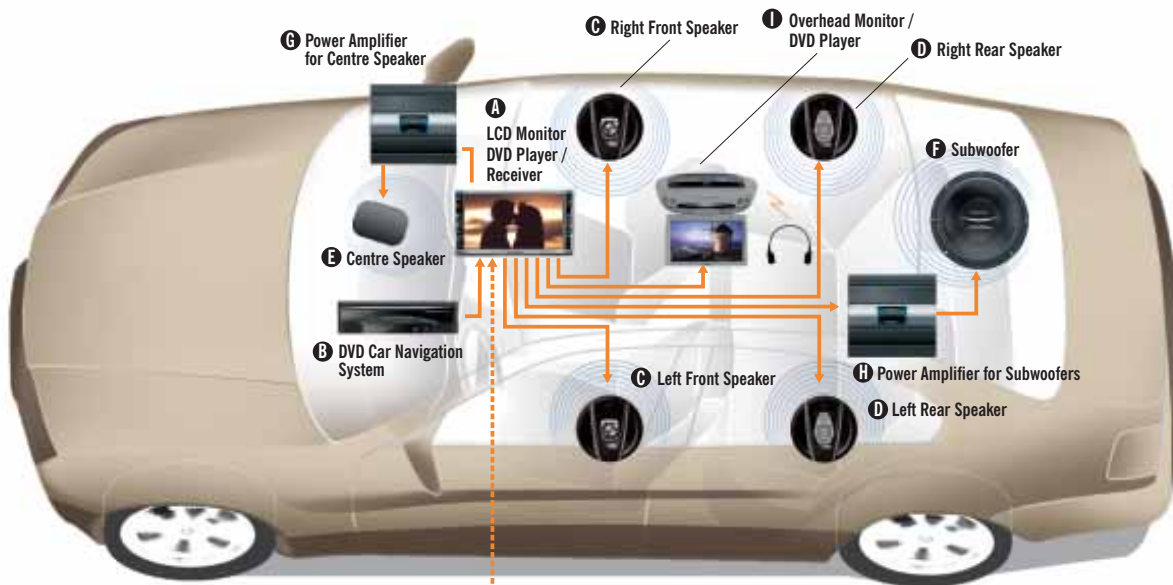


- Status Indicator (Blue LED)
- (Hang-On) / Blue LED
- (Hang-Up) / Red LED

CY-BT100N	
Power Supply	DC12V (11-16V), test voltage 14.4V, negative ground (Supplied from a head unit or a HUB)
Current Consumption	Less than 1.0A
Communication Frequency	2402MHz-2480MHz
Number of Channels	79 channels
Channel Width	1.0MHz
Communication Mode	Frequency hopped spread spectrum communication
RF Output	-10dBm ( 0.8mW )
Service Area	Within 10m
Protection Class	IP20
Applicable Bluetooth Version	Ver. 1.1 or later (Ver. 1.2 or later recommended)
Microphone Impedance	600
Dimensions (W x H x D)	72.8 x 102 x 24mm (Excluding PTT switch and Microphone)
Weight	0.5kg { 1 lbs. 16oz } (Excluding PTT switch and Microphone)

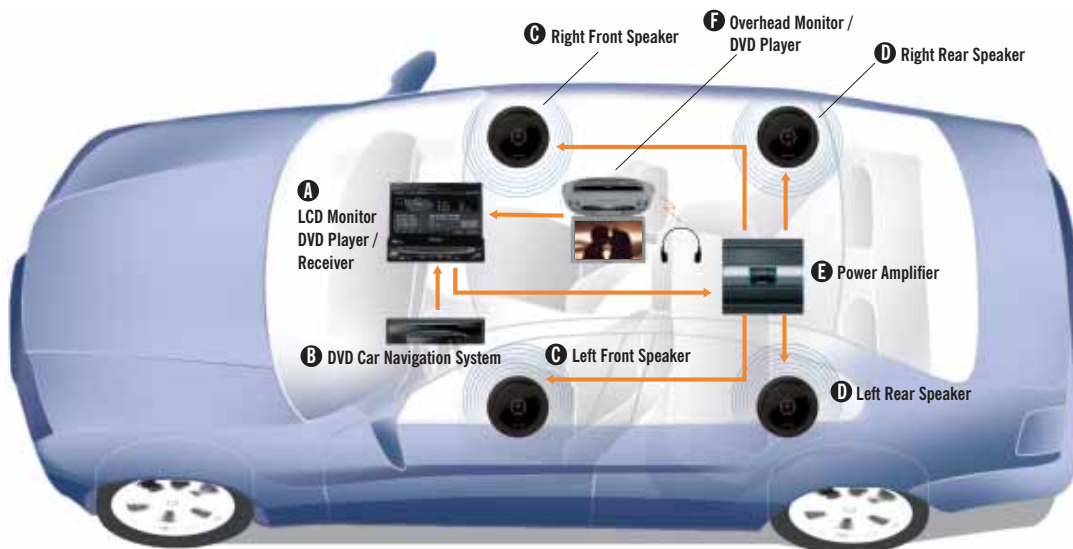
# CAR NAVIGATION SYSTEM EXAMPLES

## CAR NAVIGATION SYSTEM EXAMPLE I



SYSTEM EXAMPLE I		
A	LCD Monitor DVD Player / Receiver	CQ-VD6503N
B	DVD Car Navigation System	CN-DV2300N
C	Front Speaker	CJ-DA1323N
D	Rear Speaker	CJ-DA1733N
E	Centre Speaker	EAB-CF2
F	Subwoofer	CJ-SW3003N
G	Power Amplifier for Centre Speaker	CY-PA4003N
H	Power Amplifier for Subwoofers	CY-PAD1003N
I	Overhead Monitor / DVD Player	CQ-VHD9401N
J	Expansion Module	CY-EM100N
K	Bluetooth® Unit	CY-BT100N

## CAR NAVIGATION SYSTEM EXAMPLE II



SYSTEM EXAMPLE II		
A	LCD Monitor DVD Player / Receiver	CQ-VD7003N
B	DVD Car Navigation System	CN-DV2300N
C	Front Speaker	CJ-A1323N
D	Rear Speaker	CJ-A1723N
E	Power Amplifier	CY-PA4003N
F	Overhead Monitor / DVD Player	CQ-VHD9401N

# CD CHANGER / HEAD UNIT COMPATIBILITY

CAR STEREOS		CD CHANGERS										CAR STEREOS		CD CHANGERS										
Model No.	Intro-duction	CX-DP15	CX-DP80	CX-DP800A1	CX-DP7200	CX-DP801/803	CX-DP901	CX-DP9800	CX-DP88	CX-DP1212	CX-DP880	Model No.	Intro-duction	CX-DP15	CX-DP80	CX-DP800A1	CX-DP7200	CX-DP801/803	CX-DP901	CX-DP9800	CX-DP88	CX-DP1212	CX-DP880	
RD75	Apr.'93	1	OK	OK	OK	OK	OK	OK	OK	OK	OK	RD333N	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	
RD95	Apr.'93	1	OK	OK	OK	OK	OK	OK	OK	OK	OK	RD115N	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	
RDP750	May'93	1/3	3	3	3	3	3	3	3	3	3	RD105N	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	
RD45	Mar.'94	1/2	1/2	1/2	1/2	4	4	4	4	4	4	SRX700N	Apr.'00	4	4	1	4	1	1	1	1	1	1/2	1
R35	Apr.'94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	MR707	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	
RDP650	Sep.'94	1/2	2	2	2	2	2	2	2	2	2	DFX751	Apr.'00	4	4	1	4	1	1	1	1	1	1/2	1
RD435	Apr.'95	1/2	1/2	1/2	1/2	4	4	4	4	4	4	DFX701	Apr.'00	4	4	1	4	1	1	1	1	1	1/2	1
RD445	Apr.'95	1/2	1/2	1/2	OK	4	4	4	4	4	4	DFX601	Apr.'00	4	4	1	4	1	1	1	1	1	1/2	1
RD555	Jul.'95	1	1	OK	OK	OK	OK	OK	OK	OK	OK	DFX501	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD575	Aug.'95	1	1	OK	OK	OK	OK	OK	OK	OK	OK	DFX301	Apr.'01	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD595	Sep.'95	1	1	OK	1/2	OK	OK	OK	OK	OK	OK	DFX201	Apr.'01	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
R525	Apr.'96	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	FX721	Apr.'01	4	4	1	4	1	1	1	1	1	1/2	1
RD525	Apr.'96	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	FX421	Apr.'01	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD535	Apr.'96	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	FX321	Apr.'01	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD545	Apr.'96	4	1/2	1/2	2	1/2	1/2	1/2	1/2	1/2	1/2	RD324	Apr.'01	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD565	May'96	4	2	2	2	2	2	2	2	2	2	DFX802	Apr.'02	4	4	1	4	1	1	1	1	1	1/2	1
RDP735	May'96	4	2	2	1/2	2	2	2	2	2	2	DFX972	Apr.'02	4	4	1	4	1	1	1	1	1	1/2	1
R115	Apr.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX602	Apr.'02	4	4	1	4	1	1	1	1	1	1/2	1
R805	Apr.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX572	Apr.'02	4	4	1	4	1	1	1	1	1	1/2	1
RD815	Apr.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP472	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD825W	Apr.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX202	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX45	Apr.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP142	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX65	Apr.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP112	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RDP855W	May'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP152	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DP655	May'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP102	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD811	Jun.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP142	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX85	Jun.'97	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RD152	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX555	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RD142	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX355	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RD132	Apr.'02	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RDP965	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	HX2083N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX95	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	HX1083N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX75	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX983N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX55	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	HR1003N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX35	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX909N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RDP925	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX883N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD915	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX683N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD905	Apr.'98	4	1/2	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	RDP383N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX88	Apr.'98	4	4	1/2	4	1/2	2	1/2	1/2	1/2	1/2	DFX223N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX77	Apr.'98	4	4	1/2	1/2	1/2	2	1/2	1/2	1/2	1/2	DFX213N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX66	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	DFX203N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX44	Apr.'98	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	RDP153N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX446	Apr.'98	4	1/2	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	RDP143N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD325	Apr.'98	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	RDP133N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
CRD115	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	RD243N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
RD105	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	RD153N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX888	Apr.'99	4	4	1/2	4	1/2	2	1/2	1/2	1/2	1/2	RD143N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX777	Apr.'99	4	4	1/2	4	1/2	2	1/2	1/2	1/2	1/2	RD133N	Apr.'03	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX666	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C9800N	May.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX444	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C9700N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX4446	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C8300N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
MR555	Apr.'99	4	4	1/2	4	1/2	2	1/2	1/2	1/2	1/2	C8100N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
MR335	Apr.'99	4	4	1/2	4	1/2	2	1/2	1/2	1/2	1/2	C7300N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
MR505N	Apr.'99	4	4	1/2	4	1/2	1	1	1/2	1/2	1/2	C5400N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
MR303N	Apr.'99	4	4	1/2	4	1/2	1	1	1/2	1/2	1/2	C5300N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DRX900N	Apr.'99	4	4	1	4	1	1	1	1	1/2	1	C5100N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX800N	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C3300N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX700N	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C1400N	Apr.'04	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX600N	Apr.'99	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C9901N	Apr.'05	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX400N	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C9701N	Apr.'05	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
DFX100N	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	C8301N	Apr.'05	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FRX920N	Apr.'00	4	4	1	4	1	1	1	1	1/2	1	C7301NE	Apr.'05	4	4	1/2	4	1/2	1/2	1/2	1/2	1/2	1/2	1/2
FX820N	Apr.'00	4	4	1/2	4	1/2	1/2	1/2	1/2															

## POWER AMPLIFIERS

### Power to Spare

*Simply awesome! Every note, every nuance comes through loud and clear, with the authority of high-output amps. For the ultimate in sound, only the ultimate in amplifier technology will do.*

**Energize your ride with the thunderous performance of Panasonic's lineup of 3 new high-power amplifiers – designed to drive your total system with power to spare. Whether you are searching for the incredible efficiency and performance of the bleeding-edge in digital amplification or the raw heart-racing muscle of analogue amps, just look for the blue illumination of power.**

### DIGITAL - Cool, Efficient Power for Subwoofers

For audiophiles who want a system that awes with the power of its bass, Panasonic has developed a high-power monaural amp for your subwoofer. Boasting an impressive 1100W of output, this new mono-channel digital amplifier not only realizes digital end-to-end performance but also delivers it with high digital efficiency and with little heat generation. Because massive heat sinks are unnecessary, the entire amp is relatively compact, enabling you to make the most of limited installation space.

### CY-PAD1003N Mono (1100W) Digital Amplifier



DIGITAL  
MAX 1100W

Maximum 1100W x 1 Output Power  
Continuous Rated Power 350W (20Hz~20kHz, THD $\leq$ 1%)  
Power MOSFET Switching Transistors  
2 $\Omega$  Load Capability (High Current)  
Remote Turn-On Circuit  
Bass Extender, 45Hz, 0~ +15dB  
2-Channel Non-Fade Line Output (RCA)

Gold-Plated RCA Connectors and Speaker Terminals  
Variable Cutoff Frequencies : 50Hz-250Hz for Subwoofer  
Easy Level Adjustment After Installation (11V-11V)  
Line-Out for Another Power Amplifier  
Thermal Shutdown Protection Circuit





## CY-PA2003N 2ch (1200W) Analogue Amplifier



### ANALOGUE – Two New Stereo Power Stations Bridge the Power Gap

The debut of two new high-power stereo amps offers power users unprecedented performance. The incorporation of high-efficiency power circuits with a high conversion efficiency ratio gives users the best of all worlds: efficient power consumption, minimal heat generation and massive power to drive your system. Both the new 2ch and 4ch analogue models are bridgeable, giving you the flexibility to build a system that can drive your speakers with maximum power. Characterized by clarity and crispness, these amps incorporate MOSFET devices to keep switching distortion to a minimum while delivering audio with high-fidelity.

The 2-Channel model (600W x 2) can also serve as a mono-channel (1200W). For even more freedom and power, choose the 4-Channel model (250W x 4) and use it as a 3-Channel source (250W x 2 + 500W x 1) or a 2-Channel amp (500W x 2).

Total 1200W x 1 Maximum Output Power (600W x 2)  
 Continuous Rated Power 400W (200W x 2ch into 4Ω, 20Hz~20kHz, THD≤1%)  
 Typical Power in Bridged Mode 380W x 1 (20Hz~20kHz, THD≤1%)  
 Mixed Mode Operation  
 Power MOSFET Switching Transistors

2Ω Load Capability (High Current)  
 Bass Extender, 45Hz, 0~ +15dB  
 2-Channel Non-Fade Line Output (RCA)  
 Gold-Plated RCA Connectors and Speaker Terminals  
 Adjustable Frequency, High Pass / Low Pass  
 Electronic Crossover

## CY-PA4003N 4ch (1000W) Analogue Amplifier



Total 1000W x 1 Maximum Output Power (250W x 4)  
 Continuous Rated Power 250W (64W x 4ch into 4Ω, 20Hz~20kHz, THD≤1%)  
 Typical Power in Bridged Mode 225W x 2 (20Hz~20kHz, THD≤1%)  
 Power MOSFET Switching Transistors  
 2Ω Load Capability (High Current)  
 Bass Extender, 45Hz, 0~ +15dB

2-Channel Non-Fade Line Output (RCA)  
 Independent Front / Rear Gain Control  
 Independent Front / Rear Bass Extender Gain Control  
 Gold-Plated RCA Connectors and Speaker Terminals  
 Easy Level Adjustment After Installation (11V-11V)  
 Line-Out for Another Power Amplifier  
 Thermal Shutdown Protection Circuit



CY-PA4003N

## SPEAKERS

### ***Music to Your Ears!***

*Speakers - the final and most important link in the audio chain! Powerful to handle extended dynamic range of "Full Digital" and sensitive to express the most delicate nuances, the new voice of Panasonic has arrived.*



**When it comes to reproducing quality audio, the world's largest speaker manufacturer makes it perfectly clear with innovative "high-performance" material, new cone technology, and the distinctive arc styling. Delivering rich bass, solid vocals and scintillating highs with exceptional clarity, Panasonic speakers translate the power and performance of our end-to-end digital signal into an unforgettable audio experience.**

## Hybrid Aramid Speaker Cone – Responsive in So Many Ways

New advances present new challenges! The high power of our digital amplifiers demand new speaker solutions to tap their full potential. Our R&D department has responded with a revolutionary hybrid Aramid speaker cone.

### Aramid, the Super Fiber

Used in a variety of applications from aerospace to bullet proofbody armor, Aramid is a remarkable synthetic fiber with amazing strength and other useful properties. To tap these qualities, Panasonic has developed original technology to uniformly mix long 3mm Aramid fibers in resin. The result is a true hybrid cone material for fabrication of even thinner and lighter diaphragms with high rigidity and uniform characteristics throughout.

### Higher Internal Loss for Crystal Clarity

The advent of the Aramid hybrid has brought us closer than ever to realizing the ideal speaker cone. Not only does this new material greatly improve rupture resistance, it also allows us to achieve a high internal loss without sacrificing gains in propagation velocity. Thanks to the superior internal loss characteristics (twice that of our previous models), the clarity is astounding, eliminating the muddy sound that plagues conventional speakers.

### Light and Super Thin for "Fast" Response

The conventional practice of coating, layering or sandwiching fibers provides reinforcement at the expense of weight and thinness. With our innovative mixing technology, we can fabricate an extremely lightweight cone that is the thinnest (0.2~0.3mm) in the industry yet still enjoy the benefits of a high degree of stiffness and excellent shape retention. For the listener, this means a speaker that delivers incredibly fast and smooth response across an extended frequency range, but is durable enough to handle the awesome power of our digital amps. From deep bass to scintillating highs, the quality of the sound imaging is clear and natural.

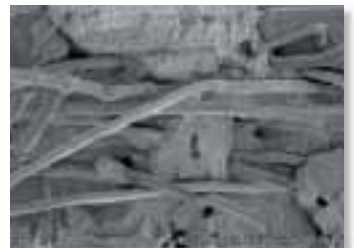
### Performance Comparison (Acoustical Characteristics)

Conventional Cone (Resin/Inorganic Filler)

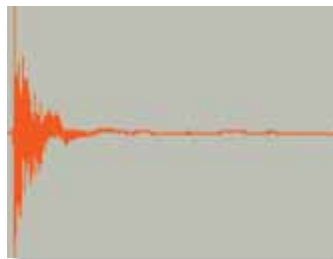


Random polymer orientation in metallic mold of a conventional mica-polypropylene cone.

New Hybrid Aramid Speaker Cone



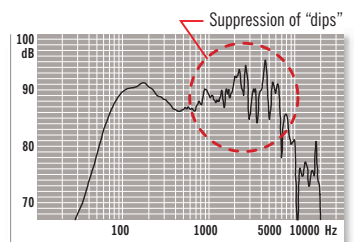
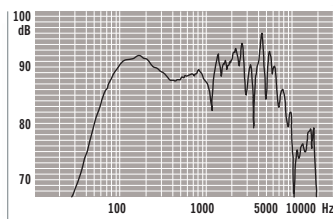
Directionally oriented fibers in the new hybrid aramid speaker produces better internal loss characteristics while maintaining sound propagation.



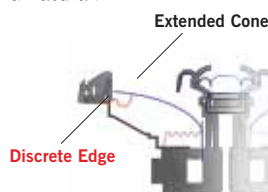
Conventional Cone (Resin/Inorganic Filler)  
Low internal loss → Muddy sound



New Hybrid Aramid Speaker Cone (Resin/Long Fibers)  
Improved (higher) internal loss → Clarity of sound



By adopting a resin-fiber hybrid, acoustical characteristics are improved.



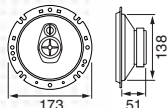
### Discrete Edge Design

By locating the rolled edge of the surround speaker inside and below the outer perimeter of the cone, Panasonic realizes an extended cone and wider effective diaphragm area for improved low frequency response. Edge distortion, which is normally caused by edge radiation, is also reduced.

## CJ-DA1733N

### 16.5cm Coaxial 3-way Speakers

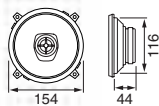
Aramid Fiber Hybrid Thin Diaphragm  
 Holographic Surface Design  
 Elastomer Coated Cloth Edge of Discrete  
 Edge Design  
 Titanium Dome Tweeters  
 High Linearity Suspension



## CJ-DA1323N

### 13cm Coaxial 2-way Speakers

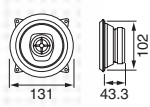
Aramid Fiber Hybrid Thin Diaphragm  
 Holographic Surface Design  
 Elastomer Coated Cloth Edge of Discrete  
 Edge Design  
 Titanium Dome Tweeters  
 High Linearity Suspension



## CJ-DA1023N

### 10cm Coaxial 2-way Speakers

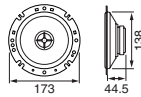
Aramid Fiber Hybrid Thin Diaphragm  
 Holographic Surface Design  
 Elastomer Coated Cloth Edge of Discrete  
 Edge Design  
 Titanium Dome Tweeters  
 High Linearity Suspension



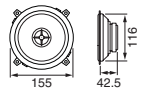
	Frequency Range	SPL(1m)
<b>CJ-DA1733N</b>	28Hz-50kHz	91dB/W/m
<b>CJ-DA1323N</b>	35Hz-50kHz	90dB/W/m
<b>CJ-DA1023N</b>	45Hz-50kHz	89dB/W/m



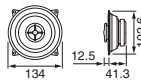
**CJ-A1723N** **160W**  
16.5cm Coaxial 2-way Speakers



**CJ-A1323N** **120W**  
13cm Coaxial 2-way Speakers



**CJ-A1023N** **80W**  
10cm Coaxial 2-way Speakers



**Common Features for A-Series**

Shallow Mounting Depth

(A1723: 4.4cm)

(A1323: 4.5cm)

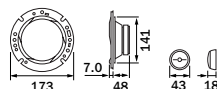
(A1023: 4.3cm)

High Rigidity Polypropylene Injection Cone

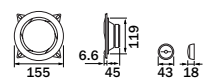
	Frequency Range	SPL(1m)
<b>CJ-A1733N</b>	35Hz-22kHz	92dB/W/m
<b>CJ-A1323N</b>	40Hz-22kHz	91dB/W/m
<b>CJ-A1023N</b>	45Hz-22kHz	90dB/W/m



**CJ-DS173N** **150W**  
16.5cm Door/Rear-Deck-Mounted Speakers with Separate Tweeters



**CJ-DS133N** **140W**  
13cm Door/Rear-Deck-Mounted Speakers with Separate Tweeters



**Common Features for DS-Series**

High-Quality Sound Reproduction

Surface/Flush-Mount, Easy-to-Install Dome Tweeters

SSD (Symmetric Surround Design) Foamed Rubber Edges

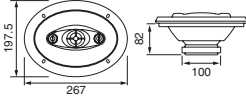
Pearl- Mica-Coated Polypropylene Injection Cones for Crisp, Clear Sound

	Frequency Range	SPL(1m)
<b>CJ-DS173N</b>	30Hz-50kHz	90dB/W/m
<b>CJ-DS133N</b>	40Hz-50kHz	89dB/W/m

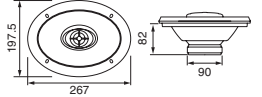
# SPEAKERS



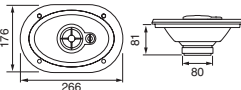
**CJ-DA6943N**  
16 x 23cm 4-Way Speakers



**CJ-DA6923N**  
16 x 23cm 2-Way Speakers



**CJ-A6933N**  
16 x 23cm 3-Way Speakers



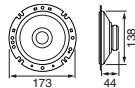
## Common Features for DA-Series

- Aramid Fiber Hybrid Thin Diaphragm
- Elastomer Coated Cloth Edge of Discrete Edge Design
- High Rigidity Polypropylene Injection Cone
- Titanium Dome Tweeters
- High Linearity Suspension

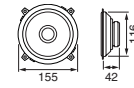
	Frequency Range	SPL(1m)
<b>CJ-DA6943N</b>	25Hz-50kHz	93dB/W/m
<b>CJ-DA6923N</b>	25Hz-50kHz	93dB/W/m
<b>CJ-A6933N</b>	28Hz-50kHz	93dB/W/m



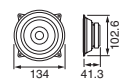
**CJ-S1703N**  
16.5cm Dual Cone Speakers



**CJ-S1303N**  
13cm Dual Cone Speakers



**CJ-S1003N**  
10cm Dual Cone Speakers



## Common Features for S-Series

- Shallow Mounting Depth  
(S1703: 4.6cm)  
(S1303: 4.3cm)  
(S1003: 4.4cm)
- Water-Resistant Polypropylene Woofer Cones

	Frequency Range	SPL(1m)
<b>CJ-S1703N</b>	35Hz-20kHz	92dB/W/m
<b>CJ-S1303N</b>	40Hz-20kHz	91dB/W/m
<b>CJ-S1003N</b>	45Hz-20kHz	90dB/W/m

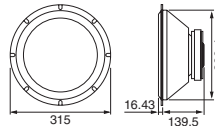


## CJ-SW3003N

### 30cm Subwoofer



High Power Handling with Minimal Distortion  
 Wide Rubber Edge  
 High Rigidity Mica/Polypropylene Composite Oven Cone and Centre Cap  
 Large Dual Dampers  
 4-Layer Voice Coil  
 Screw-Type Terminals

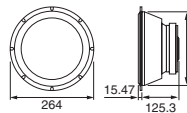


## CJ-SW2503N

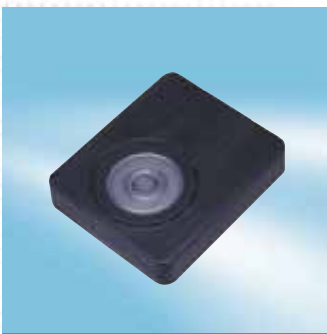
### 25cm Subwoofer



High Power Handling with Minimal Distortion  
 Wide Rubber Edge  
 High Rigidity Mica/Polypropylene Composite Oven Cone and Centre Cap  
 Large Dual Dampers  
 4-Layer Voice Coil  
 Screw-Type Terminals



	Frequency Range	SPL(1m)
<b>CJ-SW3003N</b>	18Hz-3kHz	89dB/W/m
<b>CJ-SW2503N</b>	22Hz-3kHz	89dB/W/m

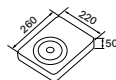


## CJ-BL150



### 150W Active Subwoofer

Built-In High Power PWM (Pulse Width Modulation) Amplifier  
 16cm Thin-Type / Heat Radiation Diaphragm Driver  
 AFB (Acoustic Feedback) for Improved Speaker Response  
 Compact and Thin, Space-Saving Size  
 ISO Connector for Easy Installation



	Frequency Range
<b>CJ-BL150</b>	40Hz-200kHz

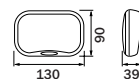


## EAB-CF2



### 8cm Centre Speaker

Compact, Thin Bass-Reflex Box  
 Easy Mounting  
 Wide-Range, Thin Convex Cone



	Frequency Range	SPL(1m)
<b>EAB-CF2</b>	400Hz-20kHz	82dB/W/m

# HEAD UNIT FEATURE COMPARISON CHART

## CD PLAYER / RECEIVERS

	CO- C8803N	CO- C8403N	CO- C7703N	CO- C7303N	CO- C5303N	CO- C3503N	CO- C3303N	CO- C1323N	CO- C1313N	CO- C1303N	CO- C1312N	CO- C1123N	CO- C1113N	CO- C1103N
<b>AUDIO SECTION</b>														
High Power	70W x 4	50W x 4	70W x 4	50W x 4	50W x 4	50W x 4	50W x 4	50W x 4	50W x 4	50W x 4	50W x 4	45W x 4	45W x 4	45W x 4
Digital Amp	•		•											
MOSFET Output Stage		•		•	•									
Sound Quality	SQ 9	SQ 7	SQ 7	SQ 7	SQ 3	SQ	SQ	SQ	SQ	SQ	SQ	SQ	SQ	SQ
SRS CS Automotive	•													
SRS WOW		•	•	•										
SRS TruBass					•	•								
Crossover	•	•	•	•										
SBC-SW	•	•	•	•										
Mute/Attenuator	M/A	M/A	M/A	M/A	M/A	M/A	M/A	M	M	M	M	M	M	M
Separate Bass/Treble, Balance Fader	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Preamp Out(s) : Front/Rear	F/R	F/R	F/R	F/R	F/R	F/R	R	R	R	R	R			
Subwoofer Out	•	•	•	•										
<b>TUNER SECTION</b>														
Radio DSP with FM Transmitter Mode	•													
Number of Presets : FM/MW(LW)	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6	18/6
Selectable AF Sensitivity	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Auto Preset Memory with Scan	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Seek Tuning with DX/Local Switch	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>CD PLAYER SECTION</b>														
CD-R/CD-RW Playback	•	•	•	•	•	•	•	•	•	•	•	•	•	•
WMA/MP3 Playback	W/M	W/M	W/M	W/M	W/M	M	M	M	M	M	W/M			
ID3 Tag	•	•	•	•	•	•	•	•	•	•	•			
File Tree Display	•	•	•	•										
CD Text Display	•	•	•	•	•	•	•	•	•	•	•			
3-Beam Hologram Pickup	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scan, Search, Repeat and Random Play	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pause	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>CHANGER CONTROL SECTION</b>														
CD Changer Control	•	•	•	•	•									
DVD Changer Control	•	•	•	•										
<b>OTHER FEATURES</b>														
Motorized Display Face	•	•	•	•	•									
Display	4096 Colour OEL	4096 Colour OEL	3DDM	3DDM										
Customize	•	•	•	•										
LCD Illumination Colour	Colour OEL	Colour OEL	Variable	Variable	Black	Black	Black	Blue	Black	Black	Black	Blue	Black	Black
Button Illumination Colour	Blue	Blue	Variable	Variable	Red/Green	Red/Green	Red	Red	Red	Green	Red	Red	Red	Green
Level Meters						•	•							
Spectrum Analyser			•	•	•									
AUX Input	•	•	•	•	•	Front	Front	Front	Front	Front	•			
Automatic Antenna Relay Control	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Full-Face Design	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Face Colour	Chrome Black	Chrome Black	Chrome Black	Chrome Black	Chrome Black	Silver	Silver	Black	Black	Black	Black	Black	Black	Black
Removable Faceplate	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Flashing Warning Light	•	•	•	•	•									
Remote Control Unit	•	•	•	•	•	•	Option	Option	Option	Option				
ISO Connector	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Expansion Module Ready	•	•	•	•	•									
iPod® Ready	•	•	•	•	•									
Bluetooth® Ready	•	•	•	•	•									



## DVD PLAYERS

	CQ-VD6503N	CQ-VD7003N
<b>DISPLAY UNIT</b>		
Liquid Crystal Panel	6.5" Widescreen	7" Widescreen
Screen Dimensions (W x H)	143 x 79, 177 (Diag.) mm	154 x 87, 177 (Diag.) mm
Number of Pixels	280,800 (234 Vert. x 400 Hor. x 3)	336,960 (234 Vert. x 480 Hor. x 3)
Display Method	Transparent Colour Filter Format	Transparent Colour Filter Format
Drive Method	TFT Active Matrix Format	TFT Active Matrix Format
Light Source	L-Shaped CFL	L-Shaped CFL
<b>DVD SECTION</b>		
Disc Played	DVD Video (12cm, Single- or Dual-Sided, Single- or Dual-Layer, PAL/NTSC), CD-DA(12cm), CD-R/RW (12cm), MP3/WMA (CD-R/RW), Video CD (12cm)	DVD Video (12cm, Single- or Dual-Sided, Single- or Dual-Layer, PAL/NTSC), CD-DA(12cm), CD-R/RW (12cm), MP3/WMA (CD-R/RW), Video CD (12cm)
Video Output Signal (Composite)	1.0Vp-p (75Ω)	1.0Vp-p (75Ω)
Video Input Signal (Composite)	1.0Vp-p (75Ω)	1.0Vp-p (75Ω)
Signal System	PAL / NTSC	PAL / NTSC
<b>AUDIO SECTION</b>		
Power Output (Max.)	50W x 4	50W x 4
(DIN45324, at 4Ω)	18W x 4	18W x 4
Speaker Impedance	4Ω	4Ω
Preamp Output Level /Impedance	2V /600Ω	2V /600Ω
Subout Voltage /Impedance	2V /600Ω	2V /600Ω
Audio Output Sensitivity	2.0Vrms /600Ω	2.0Vrms /600Ω
Audio Input Sensitivity	2.0Vrms	2.0Vrms
Digital Audio Output	-	-
Frequency Response	20Hz - 20kHz (DVD)	20Hz - 20kHz (DVD)
S/N Ratio (IHA,A)	78dB	78dB
<b>TUNER SECTION</b>		
Frequency Range	87.5 MHz - 108MHz	87.5 MHz - 108MHz
Usable Sensitivity (S/N 20dB)	8dB/μV	8dB/μV
Stereo Separation (1kHz)	40dB	40dB
Frequency Range	531kHz - 1,602kHz	531kHz - 1,602kHz
Usable Sensitivity	25dB /μV	25dB /μV
Frequency Range	153kHz - 279kHz	153kHz - 279kHz
Usable Sensitivity (S/N 20dB)	32dB /μV	32dB /μV
<b>GENERAL</b>		
Input Level /Impedance	Max.2V /10kΩ	Max.2V /10kΩ
Dimensions (W x H x D)	178 x 100 x 165mm	178 x 50 x 165mm
Weight	1.8kg	2.4kg
Power Source (DC)	12V (11V - 16V)	12V (11V - 16V)
Current Consumption	Less than 10A	Less than 10A

## OVERHEAD MONITOR / PLAYER

	CQ-VHD9401N
<b>DISPLAY UNIT</b>	
Liquid Crystal Panel	9" Widescreen
Screen Dimensions (W x H)	198 x 112, 227 (Diag.)mm
Number of Pixels	336,960 (234 Vert. x 480 Hor. x 3)
Display Method	RGB Vertical Stripe
Drive Method	a-Si TFT Active Matrix Format
Light Source	Straight Shape CCFL Edgelight (Single Lamp)
<b>DVD SECTION</b>	
Disc Played	DVD Video (12cm, Single- or Dual-Sided, Single- or Dual-Layer, PAL/NTSC), DVD-R/RW, CD-DA(12cm), CD-R/RW(12cm), MP3 (CD-R/RW), Video CD(12cm)
Video Output Signal (Composite)	1.0Vp-p (75Ω)
Video Input Signal (Composite)	1.0Vp-p (75Ω)
Signal System	PAL / NTSC
<b>AUDIO SECTION</b>	
Preamp Output Level /Impedance	1.8V / 600Ω
Audio Output Sensitivity	1.8Vrms (CD)
Audio Input Sensitivity	2.0Vrms (VTR)
Digital Audio Output	Optical
Frequency Response	20Hz - 44kHz (DVD) / 20Hz - 20kHz (CD)
S/N Ratio (IHA,A)	95dB
<b>GENERAL</b>	
Input Level /Impedance	Max.2V /10kΩ
Dimensions (W x H x D)	375 x 250 x 56mm
Weight	3.0kg
Power Source (DC)	12V (11V - 16V)
Current Consumption	Less than 2.0A

## DVD CAR NAVIGATION

	CN-DV2300N
<b>MAIN UNIT</b>	
Reception Frequency	1575.42MHz
Reception Sensitivity	-130dBm
Reception Method	Parallel 8 Channels
Receiving Code	C/A Code
Channel System	Multi-Channel
Channels	8
GPS Satellites Received	8 Max.
Guide Map	DVD SDAL Format
<b>PICTURE OUTPUT</b>	
RGB	Navigation Screen
NTSC	1.0Vp-p, 75Ω, RCA Pin Jack (Navigation Screen)
Analogue Audio Output	Monaural 1ch 1.5Vrms (1kHz, 0dB)
<b>GENERAL</b>	
Power Supply	12V DC, Negative Ground
Current Consumption	Less than 2.5A
Dimensions (W x H x D)	178 x 50 x 170mm
Weight	2.0kg
<b>GPS ANTENNA</b>	
Type	Microstrip Planer
Dimensions (W x H x D)	42 x 14 x 50mm
<b>REMOTE CONTROL</b>	
Dimensions (W x H x D)	41 x 40 x 155mm
<b>INFRARED RECEIVER</b>	
Dimensions (W x H x D)	34 x 17 x 22mm

# SPECIFICATIONS

## CD PLAYER / RECEIVERS

	CQ-C8803N	CQ-C8403N	CQ-C7703N	CQ-C7303N	CQ-C5303N	CQ-C3503N
<b>AMPLIFIER SECTION</b>						
Output Power (Max.)	70W x 4	50W x 4	70W x 4	50W x 4	50W x 4	50W x 4
(DIN 45324 at 14.4V)	33W x 4	22W x 4	22W x 4	22W x 4	22W x 4	22W x 4
Speaker Impedance	4-8Ω	4-8Ω	4-8Ω	4-8Ω	4-8Ω	4-8Ω
Preamp Output Level / Impedance (CD Changer Mode)	5V / 60Ω	5V / 60Ω	2.5V / 200Ω	2.5V / 200Ω	2.5V / 200Ω	2.5V / 200Ω
Subwoofer Output Level / Impedance	5V / 60Ω	5V / 60Ω	2.5V / 200Ω	2.5V / 200Ω	-	-
LPF Frequency	Off/60-160Hz, 5Hz Step	80 / 120Hz / 160Hz	80 / 120Hz / 160Hz	80 / 120Hz / 160Hz	-	-
HPF Frequency	Off/90-225Hz, 5Hz Step	Off/90/135/180/225Hz	Off/90/135/180/225Hz	Off/90/135/180/225Hz	-	-
<b>CD PLAYER SECTION</b>						
Frequency Response (±1dB)	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz
S/N Ratio	106dB	96dB	96dB	96dB	96dB	93dB
THD (1kHz)	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Channel Separation (1kHz) (Preout)	86dB	75dB	75dB	75dB	75dB	75dB
<b>TUNER SECTION</b>						
Frequency Range	87.5MHz-108MHz	87.5MHz-108MHz	87.5MHz-108MHz	87.5MHz-108MHz	87.5MHz-108MHz	87.5MHz-108MHz
Usable Sensitivity (75 Ω S/N 30dB)	6dB / μV	6dB / μV	6dB / μV	6dB / μV	6dB / μV	6dB / μV
S/N Ratio (Mono)	62dB	62dB	62dB	62dB	62dB	62dB
Stereo Separation (1kHz)	40dB	35dB	35dB	35dB	35dB	35dB
Frequency Range	531kHz-1602kHz	531kHz-1602kHz	531kHz-1602kHz	531kHz-1602kHz	531kHz-1602kHz	531kHz-1602kHz
Usable Sensitivity (S/N 20dB)	25dB / μV	28dB / μV	28dB / μV	28dB / μV	27dB / μV	27dB / μV
Frequency Range	153kHz-279kHz	153kHz-279kHz	153kHz-279kHz	153kHz-279kHz	153kHz-279kHz	153kHz-279kHz
Usable Sensitivity (S/N 20dB)	25dB / μV	32dB / μV	32dB / μV	32dB / μV	32dB / μV	32dB / μV
<b>GENERAL</b>						
Power Source (DC)	12V (11V-16V)	12V (11V-16V)	12V (11V-16V)	12V (11V-16V)	12V (11V-16V)	12V (11V-16V)
Current Consumption	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.2A (0.5W)	Less than 2.1A (0.5W)	Less than 2.1A (0.5W)
Dimensions (W x H x D)	178 x 50 x 155mm	178 x 50 x 155mm	178 x 50 x 155mm	178 x 50 x 155mm	178 x 50 x 155mm	178 x 50 x 160mm

## COLOUR LCD MONITOR

	CY-VM7203N
<b>DISPLAY UNIT</b>	
Liquid Crystal Panel	7" Widescreen
Screen Dimension (W x H)	154 x 87, 163 (Diag.)mm
Number of Pixels	336,960 (234 Vert. x 480 Hor. x 3)
Display Method	Transparent Colour Filter Format
Drive Method	TFT Active Matrix Format
Light Source	L - Shaped CFL
Sound Output	0.7W
Speaker	3.5cm x 2.0cm Square Type
AV Input Level (1, 2)	Video (1Vp-p, 75Ω), Audio (2V rms)
AV Output Level	Video (1Vp-p, 75Ω), Audio (2V rms)
Power Source(DC)	12V (11V-16V), 14.4V Test Voltage, Negative Ground
Current Consumption	Less than 1.0A
Dimensions (W x H x D)	181 x 131 x 34mm
Weight	0.57kg

## AMPLIFIERS

	CY-PAD1003N	CY-PA2003N	CY-PA4003N
Power Output	4ch drive: - 3ch drive: - 2ch drive: - 1ch drive: 350W x 1	- - 200W x 2 380W x 1	64W x 4 64W x 2, 225W x 1 225W x 2 -
Max. Power Output	1100W	Total 1200W	Total 1000W
THD (1kHz)	0.08%	0.08%	0.08%
S/N Ratio (IHF, A)	100dB	95dB	92dB
Frequency Response (-3dB)	10Hz-40kHz	10Hz-40kHz	10Hz-40kHz
Crossover Frequencies	50Hz-250kHz	50Hz-250kHz	50Hz-250kHz
Bass Boost	0dB-5dB	0dB-5dB	0dB-5dB
Input Level Adjustment	200mV-6V	200mV-6V	200mV-6V
Speaker Impedance	4Ω	4Ω	4Ω
Current Consumption	24A(4Ω)	24A(100W x 4,4Ω)	24A(45W x 4,4Ω)
Dimensions(W x H x D)	28.0 x 6.2 x 30.3cm	28.0 x 6.2 x 33.3cm	28.0 x 6.2 x 33.3cm

## DISC CHANGER

	CX-DH801N
Total Harmonic Distortion (1kHz, 0dB)	0.006%
Frequency Response	5Hz-20kHz, ±1dB
Signal-to-Noise Ratio	96dB
Output Level	2V (rms)
Power Source (DC)	12V (11V-16V)
Current Consumption	1.0A
Dimensions (W x H x D)	230 x 69.5 x 164.5mm

## WMA, MP3, and Smart File Management

Number of Folders	WMA/MP3	Max 255
Number of Files	WMA/MP3	Max 999
Supported File System	WMA/MP3	ISO 9660 Level 1, Level 2, Joliet, Romeo
Display Information	WMA MP3	Folder Name/File Name/Artist Name/Title Name (Folder Name/File Name/Artist Name/Title Name)
Displayable Characters	WMA/MP3	64 characters
Compression Formats	WMA	64 - 192kbps
	Recommended /WMA	64kbps or more and fixed
	MPEG 1 audio layer 3/MP3	32 - 320kbps
	MPEG 2 audio layer 3/MP3 Recommended /MP3	8 - 160kbps 128kbps or more and fixed

	CQ-C3303N	CQ-C1323N	CQ-C1313N	CQ-C1303N	CQ-C1312N	CQ-C1123N	CQ-C1113N	CQ-C1103N
	50W x 4	50W x 4	50W x 4	50W x 4	50W x 4	45W x 4	45W x 4	45W x 4
	22W x 4	22W x 4	22W x 4	20W x 4	22W x 4	20W x 4	20W x 4	20W x 4
	4 – 8Ω	4 – 8Ω	4 – 8Ω	4 – 8Ω	4 – 8Ω	4 – 8Ω	4 – 8Ω	4 – 8Ω
	2.5V / 200Ω	2.5V / 200Ω	2.5V / 200Ω	2.5V / 200Ω	2.5V / 200Ω	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	20Hz–20kHz	20Hz–20kHz	20Hz–20kHz	20Hz–20kHz	20Hz–20kHz	20Hz–20kHz	20Hz–20kHz	20Hz–20kHz
	96dB	96dB	96dB	96dB	96dB	96dB	96dB	96dB
	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
	75dB	75dB	75dB	75dB	75dB	-	-	-
	87.5MHz–108MHz	87.5MHz–108MHz	87.5MHz–108MHz	87.5MHz–108MHz	87.5MHz–108MHz	87.5MHz–108MHz	87.5MHz–108MHz	87.5MHz–108MHz
	6dB / μV	6dB / μV	6dB / μV	6dB / μV	6dB / μV	6dB / μV	6dB / μV	6dB / μV
	62dB	62dB	62dB	62dB	62dB	62dB	62dB	62dB
	35dB	35dB	35dB	35dB	35dB	35dB	35dB	35dB
	531kHz–1602kHz	531kHz–1602kHz	531kHz–1602kHz	531kHz–1602kHz	531kHz–1602kHz	531kHz–1602kHz	531kHz–1602kHz	531kHz–1602kHz
	27dB / μV	28dB / μV	28dB / μV	28dB / μV	28dB / μV	28dB / μV	28dB / μV	28dB / μV
	153kHz–279kHz	153kHz–279kHz	153kHz–279kHz	153kHz–279kHz	153kHz–279kHz	153kHz–279kHz	153kHz–279kHz	153kHz–279kHz
	32dB / μV	32dB / μV	32dB / μV	32dB / μV	32dB / μV	32dB / μV	32dB / μV	32dB / μV
	12V (11V–16V)	12V (11V–16V)	12V (11V–16V)	12V (11V–16V)	12V (11V–16V)	12V (11V–16V)	12V (11V–16V)	12V (11V–16V)
	Less than 2.1A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)	Less than 2.5A (0.5W)
	178 x 50 x 160mm	178 x 50 x 160mm	178 x 50 x 160mm	178 x 50 x 160mm	178 x 50 x 160mm	178 x 50 x 160mm	178 x 50 x 160mm	178 x 50 x 160mm

## SPEAKERS

	CJ-DA1733N	CJ-DA1323N	CJ-DA1023N	CJ-DS173N	CJ-DS133N	CJ-A1723N	CJ-A1323N
Type	Coaxial 3-Way	Coaxial 2-Way	Coaxial 2-Way	2-Way	2-Way	Coaxial 2-Way	Coaxial 2-Way
Size	16.5cm 4cm (Tweeter) x 1 1.7cm (Tweeter) x 1	13cm 1.7cm (Tweeter)	10cm 1.7cm (Tweeter)	16.5cm 3.5cm (Tweeter)	13cm 3.5cm (Tweeter)	16.5cm 4cm (Tweeter)	13cm 4cm (Tweeter)
Peak Input Power	230W	150W	100W	150W	140W	160W	120W
Frequency Range	28Hz-50kHz	35Hz-50kHz	45Hz-50kHz	30Hz-50kHz	40Hz-50kHz	35Hz-22kHz	40Hz-22kHz
SPL (1m)	91dB / W/m	90dB / W/m	89dB / W/m	90dB / W/m	89dB / W/m	92dB / W/m	91dB / W/m
Impedance	4Ω	4Ω	4Ω	4Ω	4Ω	4Ω	4Ω
Magnet Weight	284g	181g	181g	226g	226g	153g	153g
Built-In Depth	51mm	44mm	43.3mm	48mm	45mm	44.5mm	42.5mm

## SPEAKERS

	CJ-A1023N	CJ-DA6943N	CJ-DA6923N	CJ-A6933N	CJ-S1703N	CJ-S1303N	CJ-S1003N
Type	Coaxial 2-Way	4-Way	2-Way	3-Way	Dual Cone	Dual Cone	Dual Cone
Size	10cm 4cm (Tweeter)	16 x 23cm 3.5cm (Tweeter) x 1 1.7cm (Tweeter) x 2	16 x 23cm 3.5cm (Tweeter)	16 x 23cm 6cm (Tweeter) x 1 1.7cm (Tweeter) x 1	16.5cm	13cm	10cm
Peak Input Power	80W	320W	280W	250W	120W	100W	80W
Frequency Range	45Hz-22kHz	25Hz-50kHz	25Hz-50kHz	28Hz-50kHz	35Hz-20kHz	40Hz-20kHz	45Hz-20kHz
SPL (1m)	90dB / W/m	93dB / W/m	93dB / W/m	93dB / W/m	92dB / W/m	91dB / W/m	90dB / W/m
Impedance	4Ω	4Ω	4Ω	4Ω	4Ω	4Ω	4Ω
Magnet Weight	139g	442g	383g	284g	139g	139g	91g
Built-In Depth	41.3mm	82mm	82mm	81mm	44mm	42mm	41.3mm

## SPEAKER

	EAB-CF2
Type	Centre
Size	8cm
Peak Input Power	45W
Frequency Range	400Hz-20kHz
SPL (1m)	82dB / W/m
Impedance	4Ω
Magnet Weight	-
Built-In Depth	-

## SUBWOOFERS

	CJ-SW3003N	CJ-SW2503N
Type	Subwoofer	Subwoofer
Size	30cm	25cm
Peak Input Power	1400W	1300W
Frequency Range	18Hz-3kHz	22Hz-3kHz
SPL (1m)	89dB / W/m	89dB / W/m
Impedance	4Ω	4Ω
Magnet Weight	1.276kg	1.276kg
Built-In Depth	139.5mm	125.3mm

## ACTIVE SUBWOOFER

	CJ-BL150
SPEAKER SECTION	
Size	16cm
Frequency Range	40Hz-200Hz
AMPLIFIER SECTION	
Output Power	80W (Continuous)
Maximum Output Power	150W
Dimensions (W x H x D)	260 x 50 x 220mm
Weight	2.2kg

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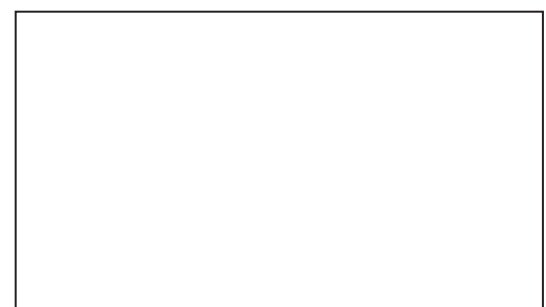
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