

# Service Manual

AUTOMOTIVE AFTERMARKET



WMA

MP3



(CQ-C3300N)

**CQ-C3300N**  
**CQ-C3100AN**  
**CQ-C3100GN**  
**CQ-C3100VN**

MP3 WMA CD Player / Receiver with  
 CD Changer Control

## Specifications\*

### General

#### Power Supply

DC 12V (11V - 16V),  
 Test Voltage 14.4V  
 Negative Ground

#### Current Consumption

Less than 2.2A  
 (CD mode, 0.5W 4-speaker)

#### Maximum Power Output

50W×4 (at 4Ω) (CQ-C3300N)  
 45W×4 (at 4Ω)  
 (CQ-C3100AN/3100GN/C3100VN)

#### Power Output

22W×4 (DIN45 324, at 4Ω)

#### Speaker Impedance

4-8Ω

#### Pre-Amp Output Voltage

2.5V (CD mode)

#### Pre-Amp Output Impedance

200Ω

### FM Stereo Radio

#### Frequency Range

87.5 - 108MHz

#### Usable Sensitivity

6 dBμV (S/N 20 dB)

#### Stereo Separation

35dB (at 1 kHz)

### MW Radio

#### Frequency Range

531 - 1 600kHz

#### Usable Sensitivity

29dBμV (S/N 20 dB)

### LW Radio

#### Frequency Range

153 - 279 kHz

#### Usable sensitivity

34dBμV (S/N 20 dB)

### CD Player

#### Sampling Frequency

8 Times Oversampling

#### DA Converter

4 DAC System

#### Pick-Up Type

Asigma 3-beam

#### Light Source

Semiconductor Laser

#### Wave Length

780nm

#### Frequency Response

20Hz to 20kHz (±1dB)

#### Signal to Noise Ratio

96dB

#### Total Harmonic Distortion

0.01% (1kHz)

#### Wow and Flutter

Below measurable limits

#### Channel Separation

75dB

#### Dimensions\*\* (W×H×D)

178mm×50mm×156mm

#### Weight\*\*

1.4kg

\* Specifications and the design are subject to possible modification without notice due to improvements.

\*\* Dimensions and Weight shown are approximate.

\* Above specifications comply with EIA standards.

# Panasonic

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# Panasonic Car Audio Repair

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