



## CP700BMW Pro Audio Player

### operating manual



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# Inhaltsverzeichnis

1. About this manual.....	2
2. Shipping list.....	2
3. Installation.....	3
3.1 Safety information.....	3
3.2 Installation notes.....	3
3.3 Car integration.....	3
3.4 Connectors, Slots and indicators.....	4
3.5 Cars with no CD changer wiring.....	4
4. Operation / first startup.....	4
4.1. Preparation of the SD memory card.....	4
4.2 Device configuration.....	5
4.3 MP3 Tag / title display.....	6
4.4 User interface.....	7
4.5 Supported MP3 file formats.....	7
5. Operating state / indicator light.....	7
5.1 Display messages.....	8
6. Technical Specifications.....	8
7. Proper disposal.....	9
8. Liabilities and intended use.....	9
9. CE Compliance.....	10

## 1. About this manual

First we would like to thank you for choosing on of our prdoucts. This manual will help you to operate the product in a safe and practical manner. **Please read the complete manual before installing and operating the product.** Should there be any question that is not covered by this manual, please kindly ask the seller where you have purchased your item or contact the manufacturer. Contact details can be found at the end of this manual.

## 2. Shipping list

- CP700BMW Pro Audio Player
- Mounting kit consisting of two PVC self sticking brackets (grey)
- This manual

## 3. Installation

### 3.1 Safety information



This symbol indicates crucial positions in the manual that informs you about possible hazards or malfunctions.

**Hinweis** This symbol indicates special hints in the manual

Please be aware that operating this device while driving can distract you from road traffic with may lead to an accident! For your own safety NEVER operate the the device while the car is moving! **Only control the device if the current traffic situation allows it!** Do not let you distract you from the device! Under any circumstances comply with any road traffic laws and regulations must be kept. Should the product be damaged, deformed through pressure, fall, hits etc., do not connect or operate the device but send it to the manufacturer for service check and possible repair.

More information, help and tools are available on the manufacturers web site:

<http://www.cartain.de/index.php/support>

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Support email adresse: [support@cartain.de](mailto:support@cartain.de)

### 3.2 Installation notes

Choose a dry and safe place for installing the CP700BMW. Remember that you need access to the front plate to change the SD memory card.

If unsure how to install the product, ask a automotive service station or a car HiFi specialist. Before finally installing the device, check if the device is working properly.

Make sure places are clean and free from any grease where you like to install the self-adhesive mounting brackets. Make sure the device cannot get loose and does not interfere other parts of your car.

### 3.3 Car integration

The CP700BMW is equipped with the identical connectors as the original CD changer from stock. For any connection retrofit, the same rules as for the original CD changer apply.

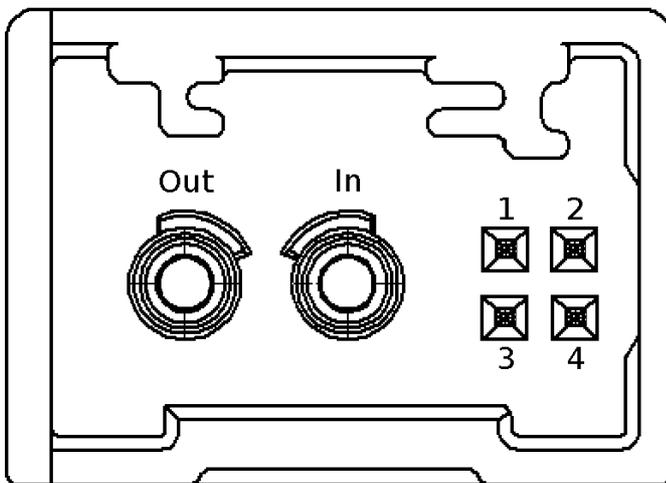
### 3.4 Connectors, Slots and indicators

#### Front plate



- 1: Status LED
- 2: SD card slot

#### Back plate, connectors



- Out: optical output (MOST25)
- In: optical input (MOST25)

electrical contacts

- 1: 12V permanent / Terminal 30
- 2: Ground / Terminal 31
- 3: 12V permanent / Terminal 30
- 4: Ground / Terminal 31

It is sufficient to only connect pin 1 and 2 or 3 and 4. The other pins can be left unconnected. The device can be supplied with permanent or switched 12V power. The CP700BMW will automatically set itself to standby mode when the car is locked up.

### 3.5 Cars with no CD changer wiring

Cars that are not equipped with an original CD Changer from factory (SA672) or do not have a CD changer preparation option (SA694) may need additional wiring and coding of the head unit. Ask your seller or the manufacturer where to get appropriate material to retrofit the CD changer connector.

## 4. Operation / first startup

### 4.1. Preparation of the SD memory card

The CP700BMW works with any SD, SDHC or SDxC card if it has been properly prepared.

## **Hinweis** Only FAT32 formatted cards will be accepted!

Should you have bought a new SD card, please make sure it has the correct format. You can do this by inserting it into your PC or Laptop. Go to "properties" of the device. If you see a format like "NTFS" or "exFAT", the card need to be formatted with FAT32 format. The same thing your will need to do if you are planning to use a >32GB card for game consoles like the SONY Playstation™. Some Windows™ operating systems will not allow to format cards greater than 32GB with FAT32. But there is a free tool that allows formatting any card with FAT32. It is called „guiformat“ and can be downloaded from the manufacturer#s web site.

Link: [www.cartain.de/downloads/guiformat.exe](http://www.cartain.de/downloads/guiformat.exe)

## **Hinweis** You need 6 folders on the card that start with a number!

### The six main folders

 1Dance	<p>These six main folders represent the six virtual CD's in a changer magazine. The CP700BMW will create its own lists and databases from the fodler content into a Folder called INDEX. You do not have to create this INDEX folder. It is automatically created by the device. You can always delete the INDEX folder, the CP700 will automatically recreate this folder next time you insert the card. The first time the card is inserted, creating the INDEX will take some additional time before you can play music.</p>
 2Rock	
 3Kinder	
 4Reggae	
 5Oldies	
 6Hoerbuch	
 INDEX	
 CP700.INI	

You can also create subfolders within the six main folders. But do not go deeper than 5 subfolders, else the device will ignore its content.

### Nested subfolders

 1Dance	<p>Subfolders are a good possibility to organise your music collection. The order of playback is the same order you copied the files onto the card.</p>
 DaftPunk	
 David_Guetta	
 Faithless	
 WayOutWest	
 Don't Look Now	
 Intensify	
 LiveAtGateCrasher	
 We Love Machine	

## **4.2 Device configuration**

The CP700BMW can be configured through a special configuration file on theyour SD card. The file is called "CP700.INI". It is a simple Ascii text file that

can be opened and edited with any notepad or other plain text editor. Lines that start with a semicolon ";" will be ignored by the device. The most important parameter in the CP700.INI is the emulation mode called "EMU=". It controls as with kind of changer the CP700BMW shows up at the head unit. If there is no CP700.INI, by default the device will act as a audio E60 CD changer with no extra functionality. The following example shows how it will be set to this:

### ***EMU=E60CDC***

If this line is active, the CP700BMW behaves like an old CH changer from the E60 series. There is no folder browsing and only some basic title information. If your head unit is able to show mp3 features (mayb need some activation in advance) then you can use the following line:

### ***EMU=E60FULL***

This activates the full mp3 feature set and lets the CP700BMW act as a MP3 Changer unit that came across 2006 to the market.

## ***4.3 MP3 Tag / title display***

As mentioned before, the CP700BMW can basically simulate two units:

- Standard Audio 6 CD changer Part.No. 6512 6986081 (*EMU=E60CDC*)
- MP3/Audio CD/CDR changer 6512 9200633 (*EMU=E60FULL*)

The MP3 model simulation can show file names, folders, title and artist name in your car's head unit display.



**If your head unit is not properly coded for these MP3 functionality, it is possible that the CP700BMW is not rekognised at all!**

### **Hinweis**

**Changes in the cp700.ini file will take effect after device restart! After you changed something in the ini, let to CP700BMW go to sleep or disconnect and reconnect it to activate the changes.**

You can program/code the MP3 option with either the original BMW diagnosis system (ISTA-P) or over third party tools like "Rheingold" or NCS Expert. Within NCS you add the feature **+KMP3** or if you modify your head unit directly (Coding tool, NCS dummy) change in unit „CAPPL" the option „mp3" to „mp3=full,,.

## 4.4 User interface

The CP700BMW can be controlled like the original CD Changer. There is no visible difference in the CDC menu in your head unit. To start playback, go into menu "Entertainment" or choose "CDC" in the main menu (depends on the head unit model). The 6 CDs correlate to the 6 main folders on the SD card.

## 4.5 Supported MP3 file formats

The device supports only files that are CD sampling quality. This means the sampling rate must be 44,1kHz stereo. If you convert your CDs to MP3 files, you most likely have it in the correct format. If you have files from other sources (youtube, itunes rip) then it mayb be the case that these files do have a different sampling rate. You can easily check and correct this with our "CP-Checker" tool for MS Windows™. This tool can be found on the SD card that somes with each Cp700BMW. Alternatively you can download it from the web site of Cartain™.

Visit [www.cartain.de](http://www.cartain.de), Support, CP700/CP600 MP3 file checker tool

After you have installed the program "CP Checker", insert your SD card with all your misuc, click on "Select drive" and select the drive that is your SD card reader with your SD card. Then click "Start Check". The programm runs through the card content and converts all files to a safe and working format automatically.

## 5. Operating state / indicator light

The LED (light emitting diode) on the front plate (1) shjows the current state of the CP700BMW. The LED has three possible color states: red, gren and yellow/orange. The following table lists all possible opertation states:

1	LED indication	State
	Off	Sleep mode (or no voltage applied)
	Yellow	No SD card inserted
	Green	Ready, but not playing.
	Red	No files for playback found*
	Slow flashing green	Playback active
	Slow flashing yellow	Not yet implemented
	Red/yellow flashing	Error reading/writing to SD card

	Yellow/green flashing	Index Database is checked
	Green/Red flashing	Index Database is created/updated
	Fast green flashing	SD Card is write protected, change write protect switch
	Fast red flashing	Software update is active, please wait!

\*See point 4.5 how to correct not supported file formats.

## 5.1 Display messages

In conjunction with this product the following messages can appear on your BMW head unit display

CD Check	Index is being checked or created
No Magazine	No card inserted
No Discs	No files found or write protect switch on the card activated
Loading...	If this message stays for more than 60 seconds, you may try to change the EMU option to EMU=CDC first to make sure your head unit is coded correctly.

## 6. Technical Specifications

These specification may change with future software updates!

Supported memory cards	Up to 256 GB SDHC/SDXC/SD/MMC (FAT32 format)	
Supported file formats and bit rates	(.MP3) MPEG Layer III 32 up to 320 kbps; (MUST BE 44,1 kHz clocked) Further formats on request	
Decoder	Decoding through specialised ASIC slave audio processor from VLSI Finland	100% compliant with ISO/IEC 11172-3 ISO/IEC 13818-3
Power consumption (absolute ratings)	Play Mode	120mA/1,7 W
	Sleep Mode	0,4mA/0,005W
Duo LED Indicator:	Operation state: Ready, Play, Sleep	Card: Write protect; Playback Play/Stop; Check/create Index; no files found ;

		Update; Fault condition
BMW / MOST compliant connector	Input 12V Power +	Stereo Outputs & Control via BMW MOST network
Weight	185g	
Max. environment temperature	-25°C...+70°C	
Case Dimension	78x30x97mm	
Case type	Coated alloy die cast	

## 7. Proper disposal

Wrong disposal poses a danger for the environment! Packaging parts and materials are valuable resources and can be recycled in many cases. To save our environment, please follow these points:

- Only give the device and packaging materials to a official disposal system!
- Follow local recycling laws and regulations!



Parts that are made with the waste bin symbol **MUST NOT** be put into common household waste! These parts may contain substances that are harmful for the environment. Please ask your local waste disposal and recycling office or the seller how to properly dispose these parts! At any time, the manufacturer will take back the unit free of charge.

## 8. Liabilities and intended use

Only use the CP700BMW for what it is designed for and only with proper wired connections. Else, any warranty will void. Verwenden Sie den CP600BMW nur für den Any liability or warranty will be rejected if

- You do not follow the instruction in this manual
- Not intended use
- Installation through not authorised personnel
- Use of inappropriate replacement parts
- Unauthorised modifications

## 9. CE Compliance

This device:

Product name: Cartain CP700BMW

Manufacturer: Elektronik-Idee Weber GmbH

has been designed, developed and manufactured in conformity with the EC directive for electromagnetic compatibility 2014/30/EU (L96, 29.03.14, S 79-106) in sole responsibility of

Elektronik-Idee Weber GmbH

Trasham 69

94161 Ruderting

The following standards apply:

EN 60065:2014 EN 55013:2013 EN 55020:2007+A11(2011) EN 50581:2012 ISO 7637-2:2011  
ISO 16750:2003

Signed by:

Tobias Weber

Titel: Managing Director Ruderting, 01.04.2017

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