

# DENSION

LEADING IN CONNECTED ENTERTAINMENT

# DAB+U

## COMPATIBILITY CATALOGUE

ENJOY DAB RADIO WITH US!

IN-CAR DAB RADIO  
RECEIVER INTEGRATED  
THROUGH USB



DIGITALRADIO



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# INTRODUCTION

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## INTRODUCTION

Dension DAB+U compatibility catalogue was created to show the possible compatibilities with best buffer time and the proper configurations for the specific head units of the different car brands.

- ▶ In the first section of this catalogue you can see the description of the DAB+U, package content and accessories.
- ▶ In the second part there are all the car brands with illustrating pictures of their head units which were tested.
- ▶ At the end of this compatibility catalogue you can find information regarding other members of the DAB family.

## COMPATIBILITY AND CONFIGURATION:

In case of some specific head unit, it is necessary to use radio specific configuration files which can be downloaded from [www.dension.com](http://www.dension.com).

This catalogue gives you a guide for the configuration file which provides the best buffer, however due to other external factors you may need to use an other configuration file which we do not list in this catalogue next to the picture of the head unit of your car.

We have tested many kinds of configuration in order to find the shortest buffer time for the different head units of the car brands. Not all of these configurations are compatible with all the head units therefore we mark only the best of the compatible ones and the default (factory) configuration with the value of the buffer time. In case there is no value, then the device only works after changing the configuration file on it! The buffer time is different per head unit and may vary according to car types and car brands. In this catalogue you will see 5 categories according to different buffering time value illustrated with yellow stars.

1–7 seconds: ★★★★★

8–15 seconds: ★★★★★

16–29 seconds: ★★★

30–60 seconds: ★★

more than a minute: ★

Please note that each head unit can have different hardware or software version. Due to this reason it may happen that you will experience different buffer time in different cars with the same head unit.

The default configuration is equal with K3 configuration.

We recommend to ask the installer to check and configure the DAB+U with the best configuration file during the installation and check the system before finalizing it.

# DAB+U

## USE IT IN YOUR CAR, OFFICE OR AT HOME!

The Dension DAB+U Digital Radio Receiver is a USB powered solution for receiving Digital Audio Broadcast music in your car or other devices with an 'mp3 playback from USB' function.

### DISPLAY

Station name is displayed as file name of an mp3

### CONNECTION

- ▶ Connects to a standard USB port
- ▶ Works like USB flash drive with mp3 files

### FEATURES

- ▶ Controlled through the original media menu of the stereo
- ▶ Automatic Buffer Size Assessment (ABSA)
- ▶ Home or office use also possible
- ▶ Easy browsing – DAB stations appear as virtual mp3 files





# Package Contents:

- Device (DAB+U module) [1](#)
- USB A-A (Male to Male) connector [2](#)
- Power wire for active antenna (with 2-pin micro fit) and installation accessories [3](#)
- Quick Start Guide

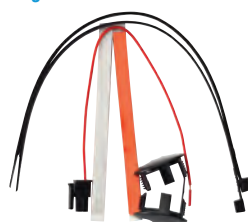
1



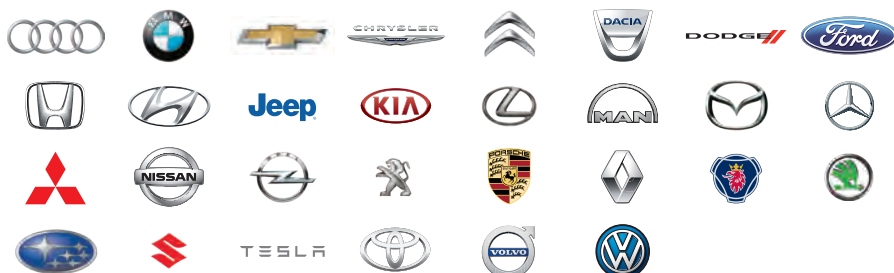
2



3



## TESTED BRANDS



# DAB ANTENNA

(DAB1ANT)

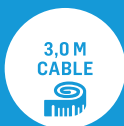
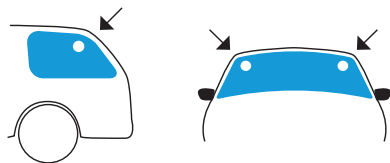
**Let's choose the Dension Windscreen mount DAB antenna for your DAB receiver to enjoy digital radio! Windscreen mount DAB car antenna with SMB connector.**

## Features

- ▶ Easy to install, easy to remove
- ▶ Does not disturb the way the car looks
- ▶ Amplified antenna with 12V input
- ▶ SMB female connector
- ▶ 3m cable length
- ▶ Compatible with all Dension DAB solutions
- ▶ Comes with the 12V connector
- ▶ Windscreen mount
- ▶ Self-adhesive

## Device compatibility

- ▶ Any DAB receiver device with an SMB connector  
– including the Dension DAB product range



# CONNECTOR PORT FOR 'PASS THROUGH USB'

(EXT2CP2)

Enables the 'Pass through USB' function on the DAB+U (DBU2GEN, DBU3GEN).

## Features

- ▶ You can use your USB connector without unplugging the DAB+U
- ▶ When active, the DAB+U will not play
- ▶ Connects to the DAB+U through USB and a connector port
- ▶ Functions as a USB extension kit
- ▶ DAB+U can be hidden from sight (e.g.: behind the dashboard)



# DAB+U

## GENERAL USER GUIDE



DBU-9203-3

### 1. INTRODUCTION

The Dension DAB+U device is an easy to install solution for receiving Digital Audio Broadcast in cars or other media devices where USB connection is available with mp3 playback capability.

#### Technical details

- Supports DAB, DAB+ and DMB-R (DMB-A)
- Compatible with Band III frequency range
- Service following
- SMB Antenna connector

#### Package contents

- DAB+U device
- USB 'A-A' cable (Male to Male)
- Power wire for active antenna
- 2x 3M adhesive tape
- 2x cable tie
- Cable grommet
- User guide

#### Optional accessories

- DAB passive (non-amplified) antenna
- DAB active (amplified) antenna with external power source (DAB1ANT)

### 2. 'ABSA'

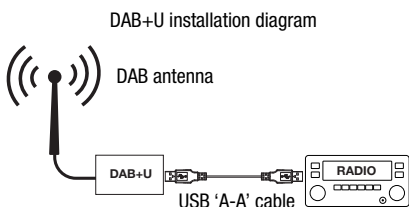
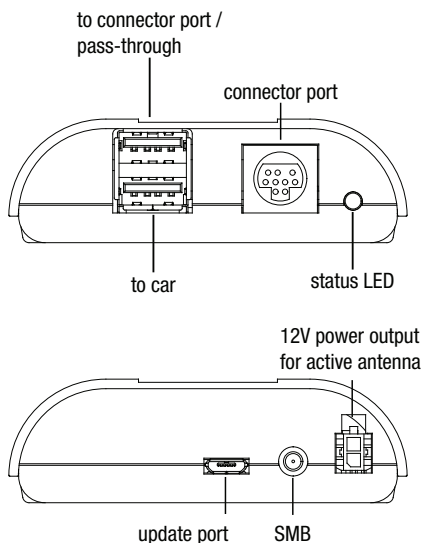
The Dension DAB+U device is equipped with an 'Automatic Buffer Size Assessment' (ABSA) function. Since the buffer size may be different in each playback device (head unit) the Dension DAB+U detects the buffering time. This is necessary for the device to function correctly. Upon first operation the assessment process runs automatically which takes about 5 minutes. During this period please do not switch station otherwise the process will start again. After this process the proper amount of buffer is used through future operations. Depending on the playback device the buffer time may vary between 15-40 seconds, so it is not possible to have 'radio like' station changing, but we designed the product to be the most versatile possible.

### 3. DEVICE INSTALLATION

Plug the DAB antenna (passive or active with external power source) to the Dension DAB+U receiver. Connect the power cable (12V) to the antenna (only if you are using an active aerial). Use the USB 'A-A' (Male to Male) cable to connect the bottom USB connector of the DAB device to the Radio. Please turn the ignition ON and check the status indicator LED on the DAB+U hardware. The steady light means that the DAB+U receives electric power. If the LED does not light up when the device is connected please check the power connection.

### 4. POSITIONING THE DAB ANTENNA

The DAB reception and performance depends on many factors, both in the vehicle and other external conditions. Before you start the antenna installation and/or the product testing, please make sure that you have a good DAB coverage and reception.



### Important notes:

- If your vehicle comes with metalized windscreen (e.g. windscreen heating) an external antenna is required
- The DAB module supports both amplified and non-amplified aerials. For amplified antennas 12V power is provided by the DAB+U receiver via the 2 pin molex connector

Please read the manual of the antenna carefully and follow the instructions in order to find the correct place for the installation. It's better to always test the DAB functions before finalizing the installation.

## 5. CONFIGURATION

In case of some specific head unit it may be necessary to use radio specific configuration files which you can download from [www.dension.com](http://www.dension.com).

### To configure please follow the steps below.

1. Plug the DAB+U device to your PC with a micro USB cable
2. Wait until it is recognized
3. Unzip and copy the configuration file to the root folder of the device
4. The update procedure will start automatically. When it is finished the device will be disconnected and reconnected automatically
5. The process was successful if the config file disappeared from root folder

## 6. OPERATION

Switch your car radio on and select the DAB+U module as a USB source from your radio. First you need to perform a DAB scan to find all the available stations in your area, therefore please go to the 'Settings' file folder and select / play 'Scan.mp3'. The scanning procedure usually takes 40-60 seconds (within this time the system displays 'Scanning' as announcement). When it is finished the DAB device will reboot and the first DAB channel from the list of the available stations will be selected and played automatically once the buffering is finished (every station needs to buffer after selection). Please note: all available stations will be listed as mp3 files in the 'Stations' folder after scanning.

Buffering (the device loads the data ahead of the player) is required to compensate internal (USB playback function of the radio) or external (signal loss) factors in order to keep the playback from stuttering.

The total buffering time usually takes 15-40 seconds (within this time the status indicator LED is flashing) while the device announces 'Please wait'. Please note: This is playback device dependent. For more information please refer to chapter #2. 'ABSA'.

During playback the station name will be displayed on the radio screen or on the cluster display (radio dependent). You may need to press additional button(s) e.g. 'Disp' / 'Info' to change the type of information displayed. You can select a different channel by pressing the next / previous track button on your radio or steering wheel. Alternatively you can browse and select the desired station from the list of mp3 files (available DAB stations) in the 'Stations' folder of your USB source menu on your radio.

### Important notes:

The 'Scan' button / function (available on most of the mp3 capable devices) plays certain amount of time from all available files on the drive, therefore it CANNOT be used to rescan the DAB stations. Please do not use this function because it might result in malfunction. To rescan the DAB stations please always use the 'Scan.mp3' file in the 'Settings' folder.

- When traveling frequently between different locations it is recommended to rescan all stations since the items in the previously saved list might not be available anymore
- This device has 'Service following' support, so the currently played station might be available even when moving from

the area of the first transmitter, because the DAB+U automatically switches to the next available transmitter if the station is available on that one too. However please note that a rescan might still be needed to find the local transmissions.

- If you are listening to a station while switching off the device, the last played station name will be duplicated when turning the device back on and the station's name will be marked with 'I'. This is part of the normal operation and will not cause any malfunction

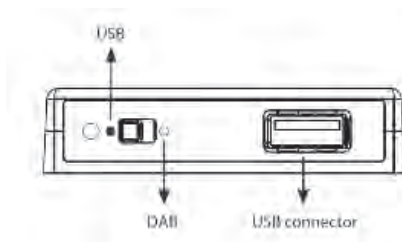
## 7. ABOUT THE 'SETTINGS' MENU OPTIONS

**The following items are available in the 'Settings' folder:**

- About: provides information about the DAB device (e.g. software version)
- Scanning: use this option to scan all available stations in your area

## 8. CONNECTOR PORT

The connector port is an optional accessory allowing you to change the playback source from DAB radio to a USB-drive without unplugging your USB drive.



The connector port has to be connected to the Round 9-pin connector of the DAB+U and the upper USB connector on the device. If the switch is set to DAB mode, the DAB+U is in active mode and you can listen to the DAB radio. When the switch

is in USB position the DAB+U will be in bypass mode (DAB off) and you are able to access the content of the flash drive connected to the USB connector on the connector port.

9. FIRMWARE UPDATE

We recommend to visit our website on a regular basis to get software updates for your product to enjoy the best performance and more features. Please follow the steps explained there to perform a successful update process.

10. TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No DAB channels available after scanning	1. Antenna position is not correct / not connected properly / compatible / or faulty 2. Poor DAB coverage	1. Check the installation and the specifications of the antenna 2. Test DAB reception with a different device or run scan at a different location
Playback is intermittent	Bad DAB coverage or antenna position	Try to change the antenna position
Missing channel	DAB signal strength is weak	Repeat scanning later
Station is selected but not played	Station is not available at the given territory	Apply scanning to see the stations currently available

FURTHER ASSISTANCE

If you need further assistance in using your Dension product, please contact your local supplier or visit [www.dension.com](http://www.dension.com).

11. DISCLAIMER AND WARRANTY

If your car's electrical system begins to behave erratically, please disconnect the DAB+U device physically immediately and have it checked by your installer. Dension and its authorized distributors and retailers are not liable for any incidental consequential or indirect damages or loss and do not assume liability for any diagnostic fees.

Warranty

Dension devices carry a one-year limited warranty that protects you from defects in material and workmanship of products sold by Dension or its authorized distributors and retailers. Dension does not warrant any installation work or assume liability for any damage caused due to negligence, improper installation or operation. For warranty claims, proof of purchase is required.

12. SUPPORT AND COMPATIBILITY

Please check the download section for the latest firmware version and product documentation of your DAB+U device, as these may provide additional features or easier use of the product.

COMPATIBILITY

Please visit our website at [www.dension.com](http://www.dension.com) and check the list of recommended antennas.

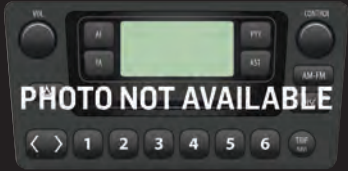
# COMPATIBILITIES FOR FACTORY FITTED HEAD UNITS





# HOW TO USE OUR COMPATIBILITY CATALOGUE

In our catalogue you will find charts which will help you to find out the best configuration for your DAB+U device. Please check this explanation chart which will give you guidance.

NAME OF THE HEAD UNIT	CAR MODEL
 <p>WHERE YOU SEE THE ABOVE GENERIC HEAD UNIT DRAWING, UNFORTUNATELY WE DO NOT HAVE THE PICTURE OR THE EXACT HEAD UNIT.</p>	Here you will find the car modelles which were produced with the actual head unit.
	CONFIGURATION
	In this section you will see the name of the configuraiton files which were tested with the DAB+U. The default configuration which is uploaded to the device in the factory is the K3 configuraiton.

# HOW TO CONFIGURE YOUR DEVICE

## STEP 1

Download the proper configuration package from our website.

## STEP 2

Plug the DAB+U device to your PC.

## STEP 3

Wait until it is recognized.

## STEP 4

Unzip and copy the configuration file to the root folder of the device.

## STEP 5

The update procedure will start automatically. When it is finished the device will be disconnected and reconnected automatically (please do not unplug the device from the PC before the configuration is finished).

### MODEL YEAR

In this section you will see the model year of the car models which were tested with our DAB+U.

#### BUFFER TIME

The buffer time section shows you how much time you will need to wait until the station starts to play when you start the device or select an other DAB station. This is the buffer time which was measured during our tests with the configuration file, you can see next to this value.

#### RATING

One to five stars rating according the next chart:

1–7 sec.

★★★★★

8–15 sec.

★★★★

16–30 sec.

★★★

31–60 sec.


★★

more than a minute:


★



# Alfa Radio 5"

RADIO 5"	CAR MODEL	MODEL YEAR	
	Giulietta	since 2015	
	Mito	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	10 sec.	★★★★★


# Alfa Uconnect Navigation 5"

UCONNECT NAVIGATION 5"	CAR MODEL	MODEL YEAR	
	Giulietta	since 2015	
	Mito	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	4 sec.	★★★★★





# Audi MMI 3 touch

MMI 3 TOUCH	CAR MODEL	MODEL YEAR	
	A6	2012–2014	
	A7	2011–2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	23 sec.	★ ★ ★
	K8	12 sec.	★ ★ ★ ★
	K13	12 sec.	★ ★ ★ ★







# BMW CCC professional

CCC PROFESSIONAL	CAR MODEL	MODEL YEAR	
	1 Series, E81/E82/E87/E88	2004–2011	
	3 Series E90/E91/E92/E93	2005–2011	
	5 Series, E60/E61	2003–2010	
	X5, (E70)	since 2007	
	X6, (E71)	since 2008	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	30 sec.	★★★	
K16	9 sec.	★★★★★	

## BMW NBT (SW version starts MN-)

NBT (SW VERSION STARTS MN-)	CAR MODEL	MODEL YEAR	
	1 Series, F20	2012-	
	2 Series, F22/F23	2012-	
	3 Series, F30	2012-	
	4 Series, 32/F33/F36	2012-	
	5 Series, F10	2012-	
	7 Series, F01/F02	2012-	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	not applicable		
K61	5 sec.	★★★★★	



## BMW CIC (SW version starts MX-)


CIC (SW VERSION STARTS MX-)	CAR MODEL	MODEL YEAR	
	1Series, E81/E82/E87/E88	2008-2012	
	3 Series, E90/E91/E92/E93	2008-2012	
	5 Series, E60/E61	2008-2012	
	5 Series, F07/F10/F11	2009-2012	
	6 Series, E63/E64	2009-2012	
	7 Series, F01/F02	2008-2012	
	X5, E70	2009-2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K62	10 sec.	★★★★

## BMW CIC (SW version starts MV-)

CIC (SW VERSION STARTS MV-)	CAR MODEL	MODEL YEAR	
	1Series, E81/E82/E87/E88	2008-2013	
	3 Series, E90/E91/E92/E93	2008-2013	
	5 Series, E60/E61	2008-2013	
	5 Series, F07/F10/F11	2009-2013	
	6 Series, E63/E64	2009-2013	
	7 Series, F01/F02	2008-2013	
	X5, E70	2009-2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K62	10 sec.	★★★★



# Chevrolet Advent OGM1

ADVENT OGM1	CAR MODEL	MODEL YEAR	
	Suburban	2010-2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	25 sec.	★★★






## Citroën eMyWay (RT6)

EMYWAY (RT6)	CAR MODEL	MODEL YEAR	
	C4	since 2011	
	C5	since 2008	
	DS3	since 2011	
	DS4	since 2011	
	DS5	since 2012	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	not applicable		
K2	7-15 sec.	★★★★	

## Citroën Navigation

NAVIGATION	CAR MODEL	MODEL YEAR	
	C4 Aircross	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	2-4 sec.	★★★★★

## Citroën RD45

RD45	CAR MODEL	MODEL YEAR	
	Berlingo	since 2009	
	C2	2005-2009	
	C3	since 2010	
	C3 Picasso	since 2009	
	C4	since 2011	
	C4 Aircross	since 2012	
	C5	since 2008	
	Crosser	2010-2012	
	Grand C4 Picasso	since 2009	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K24	14 sec.	★★★★







# Dacia Navigation

NAVIGATION		CAR MODEL	MODEL YEAR	
		Duster	since 2013	
		CONFIGURATION	BUFFER TIME	RATING
		default (K3)	120 sec.	★
		K7	15 sec.	★★★★







# DAF Navigation TNR

NAVIGATION TNR	CAR MODEL		MODEL YEAR
	CF	since 2011	
	LF	since 2008	
	XF	since 2011	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	23 sec.	★★★
K23	12 sec.	★★★★★	
K10	20 sec.	★★★	



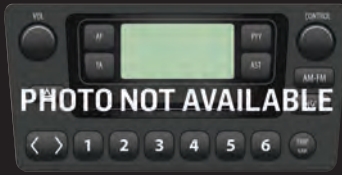
## Ford Visteon CD/Radio

VISTEON CD/RADIO	CAR MODEL	MODEL YEAR
	B-Max	since 2012
	C-Max	2008–2010
	Fiesta	2008–2012
	Focus	2009–2010
	Galaxy	since 2008
	KA	since 2009
	Kuga	2008–2012
	Mondeo	2008–2010
	S-Max	since 2009
	Transit Connect	2010–2013
CONFIGURATION	BUFFER TIME	RATING
default (K3)	20 sec.	★★★★
K2	10 sec.	★★★★
K10	10 sec.	★★★★

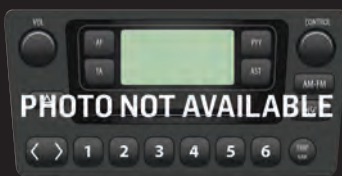
## Ford Sony CD/Radio

SONY CD/RADIO	CAR MODEL	MODEL YEAR
	C-Max	2008–2012
	Focus	2009–2010
	Galaxy	since 2008
	Kuga	2008–2012
	S-Max	since 2009
CONFIGURATION	BUFFER TIME	RATING
default (K3)	17 sec.	★★★
K8	4 sec.	★★★★★
K7	7 sec.	★★★★★

## Ford Sony CD/Radio 3,5" (Matrix display)

SONY CD/RADIO 3,5" (MATRIX DISPLAY)	CAR MODEL	MODEL YEAR	
	C-Max	2008–2012	
	Focus	2009–2010	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K2	10 sec.	★★★★★
	K10	10 sec.	★★★★★

## Ford Sony Sync CD/Radio 4.2" TFT

SONY SYNC CD/RADIO 4.2" TFT	CAR MODEL	MODEL YEAR	
	B-Max	since 2012	
	C-Max	since 2011	
	Fiesta	since 2013	
	Focus	since 2014	
	Kuga	since 2013	
	Transit	since 2014	
	Transit Connect	since 2014	
	Transit Custom	since 2013	
	Transit Tourneo	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K8	5 sec.	★★★★★
	K7	6 sec.	★★★★★

## Ford Sync 5" Navigation

SYNC 5" NAVIGATION	CAR MODEL		MODEL YEAR
	B-Max	since 2012	
	C-Max	since 2011	
	Fiesta	since 2013	
	Focus	2011-2013	
	Galaxy	since 2008	
	Kuga	since 2014	
	Mondeo	2011-2014	
	S-Max	since 2009	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	3 sec.	★★★★★

## Ford SD Navi (7" touchscreen)


SD NAVI (7" TOUCHSCREEN)	CAR MODEL		MODEL YEAR
	C-Max	2008-2010	
	Galaxy	since 2008	
	Kuga	2008-2012	
	Mondeo	2008-2014	
	S-Max	since 2009	
CONFIGURATION		BUFFER TIME	RATING
default (K3)		8 sec.	★★★★★
K8		3 sec.	★★★★★
K9		5 sec.	★★★★★

## Ford Sync 2 Navigation (8" touchscreen)

SYNC 2 NAVIGATION (8" TOUCHSCREEN)	CAR MODEL	MODEL YEAR	
	Focus	since 2014	
	Mondeo	since 2015	
	S-Max	since 2015	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	not applicable		
K10	9 sec.	★★★★★	



# Honda CD/Radio

CD/RADIO	CAR MODEL	MODEL YEAR	
	Accord	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K13	3 sec.	★★★★★





# Jeep®





# Jeep Uconnect (6,5")

UCONNECT (6,5") 	CAR MODEL	MODEL YEAR	
	Renegade	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	22 sec.	★★★
	K8	10 sec.	★★★★★
	K7	11 sec.	★★★★★



## Kia Cee'd Navigation

CEE'D NAVIGATION	CAR MODEL	MODEL YEAR	
	Cee'd	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	9 sec.	★★★★★
	K8	10 sec.	★★★★★


## Kia Picanto Navigation

PICANTO NAVIGATION	CAR MODEL	MODEL YEAR	
	Picanto	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	9 sec.	★★★★★
	K6	11 sec.	★★★★★

## Kia Sorento Navigation


SORENTO NAVIGATION	CAR MODEL	MODEL YEAR	
	Sorrento	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	6 sec.	★★★★★

# Kia Sportage Navigation


SPORTAGE NAVIGATION	CAR MODEL	MODEL YEAR	
	Sportage	2011–2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	9 sec.	★★★★
	K8	10 sec.	★★★★



## Lexus Basic

BASIC	CAR MODEL	MODEL YEAR	
	CT	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	4 sec.	★★★★★
	K9	5 sec.	★★★★★


## Lexus Navigation head unit

NAVIGATION HEAD UNIT	CAR MODEL	MODEL YEAR	
	RX	since 2009	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	16 sec.	★★★
	K8	4 sec.	★★★★★
	K2	6 sec.	★★★★★





# MAN MMT Advanced Radio

MMT ADVANCED RADIO	CAR MODEL	MODEL YEAR	
	TG-L		
	TG-M		
	TG-M		
	TG-X		
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	23 sec.	★ ★ ★
	K23	12 sec.	★ ★ ★ ★
	K10	20 sec.	★ ★ ★





Source: <https://www.4mat.it/5-antidropo-ws.com/4mat/3-mater/mater/5-4919bb11-5-100>

# Maserati Uconnect Navigation

UCONNECT NAVIGATION	CAR MODEL	MODEL YEAR	
	Ghibli	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	4 sec.	★★★★★

# Maserati Uconnect Navigation

UCONNECT NAVIGATION	CAR MODEL	MODEL YEAR	
	Quattroporte	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	4 sec.	★★★★★



## Mazda NB1

NB1 (USB MENU WITH 4 LINES) (TFT DISPLAY, FULL-SPEED USB)	CAR MODEL	MODEL YEAR	
	Mazda 6	since 2013	
	Mazda CX-5	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K45	6 sec.	★★★★★

## Mazda NB1

NB1 (USB MENU WITH 3 LINES) (TFT DISPLAY, HIGH-SPEED USB)	CAR MODEL	MODEL YEAR	
	Mazda 6	since 2013	
	Mazda CX-5	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K46	6 sec.	★★★★★


## Mazda MZD Connect

MZD CONNECT	CAR MODEL	MODEL YEAR	
	Mazda 3	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K59	6 sec.	★★★★★





# Mercedes Audio 20 CD (small screen)

AUDIO 20 CD (SMALL SCREEN)	CAR MODEL	MODEL YEAR
	A-class (W176)	since 2013
	B-class (W242, W246)	2012–2014
	C-class (W204)	2012–2013
	C-class coupe (C202)	2011–2014
	CLA (C204)	2013–2014
	E-class (W212)	2012–2014
	GLA (X156)	since 2014
	GLK (X204)	since 2011
CONFIGURATION	BUFFER TIME	RATING
default (K3)	17 sec.	★★★
K8	4 sec.	★★★★★
K2	6 sec.	★★★★★





# Mercedes Audio 20 (COMAND NTG 4.5)

AUDIO 20 (COMAND NTG 4.5)	CAR MODEL	MODEL YEAR
	A-class (W176)	since 2013
	B-class (W242, W246)	since 2015
	C-class (W204)	2012–2013
	C-class coupe (C202)	2011–2014
	CLS (C218)	2011–2014
	E-class (W212)	since 2012
	GLA (X156)	since 2014
	GLK (X204)	since 2011
	ML (W166)	since 2012
	SL (W231)	since 2012
	SLK (R172)	since 2011
	Sprinter (W906)	since 2014
	Vito (W447)	since 2015
CONFIGURATION	BUFFER TIME	RATING
default (K3)	not applicable	
K39	17 sec.	★★★




# Mercedes Audio 15 CD

AUDIO 15 CD	CAR MODEL	MODEL YEAR
	A-class (W176)	since 2013
	B-class (W242, W246)	since 2015
	C-class (W204)	2012–2013
	C-class coupe (C202)	2011–2014
	CLS (C218)	2011–2014
	E-class (W212)	since 2012
	GLA (X156)	since 2014
	GLK (X204)	since 2011
	ML (W166)	since 2012
	SL (W231)	since 2012
	SLK (R172)	since 2011
	Sprinter (W906)	since 2011
	Vito (W447)	since 2015
CONFIGURATION	BUFFER TIME	RATING
default (K3)	not applicable	
K28	14 sec.	★★★★





# Mini Navigation head unit

NAVIGATION HEAD UNIT	CAR MODEL	MODEL YEAR	
	Clubman (R55 facelift)	2011–2014	
	Cooper / Cooper S (R56 facelift)	2011–2013	
	Countryman (R60)	2010–2014	
	One (F56)	since 2014	
	Paceman	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	30 sec.	★★★
	K62	10 sec.	★★★★



# Mitsubishi Navigation (MMCS)

NAVIGATION (MMCS)	CAR MODEL	MODEL YEAR	
	ASX	2011–2014	
	Outlander	2011–2013	
	Pajero	2010–2014	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	not applicable		
K7	2–4 sec.	★★★★★	

## Mitsubishi Navigation

NAVIGATION	CAR MODEL	MODEL YEAR	
	Outlander PHEV	2013–	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K60	6 sec.	★★★★★





# Nissan EV Navigation


EV NAVIGATION	CAR MODEL	MODEL YEAR	
	Leaf	2010-2015	
	eNV-200	2013-	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	NOT APPLICABLE	
	K56	8 sec.	★★★★★

# Nissan IT08

IT08	CAR MODEL	MODEL YEAR	
	G-TR	2009-	
	370Z	2009-	
	X-trail	2009-2012	
	Murano	2009-	
	Pathfinder	2009-	
	Navara	2009-	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K57	5 sec.	★★★★★



# Opel Touch & Connect navigation

TOUCH & CONNECT NAVIGATION	CAR MODEL		MODEL YEAR	
	CONFIGURATION		BUFFER TIME	RATING
	Astra		since 2010	
	Corsa		2010–2014	
default (K3)		25–60 sec.	★★	

# Opel IntelliLink (Navi80)

INTELLILINK (NAVI80)	CAR MODEL		MODEL YEAR	
	CONFIGURATION		BUFFER TIME	RATING
	Vivaro		since 2015	
	default (K3)		120 sec.	★
	K7		17 sec.	★★★

## Opel CD 400 Plus


CD 400 PLUS	CAR MODEL	MODEL YEAR	
	Astra	since 2010	
	Cascada	since 2013	
	GTC	since 2011	
	Meriva	since 2010	
	Zafira	since 2011	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	not applicable		
K52	18 sec.	★★★	

## Opel CD 600

CD 600	CAR MODEL	MODEL YEAR	
	Astra	since 2010	
	Cascada	since 2013	
	GTC	since 2011	
	Meriva	since 2010	
	Zafira	since 2011	
CONFIGURATION	BUFFER TIME	RATING	
default (K3)	not applicable		
K50	15 sec.	★★★★	



## Opel Navi 950 IntelliLink

NAVI 950 INTELLILINK	CAR MODEL	MODEL YEAR
	Astra	since 2010
	Antara	since 2010
	Cascada	since 2013
	Meriva	since 2010
	Mokka	since 2012
	GTC	since 2011
	Zafira	since 2011
CONFIGURATION	BUFFER TIME	RATING
default (K3)	not applicable	
K51	18 sec.	★★★


## Opel R 4.0 IntelliLink

CD 600	CAR MODEL	MODEL YEAR
	Astra	since 2010
	Corsa	since 2014
	Adam	since 2013
CONFIGURATION	BUFFER TIME	RATING
default (K3)	not applicable	
K49	17 sec.	★★★






## Peugeot RD45

RD45	CAR MODEL	MODEL YEAR
	207	2008–2011
	207 CC	2008–2011
	308	since 2008
	3008	2009–2013
	407	2008-2010
	4007	2008-2012
	4008	since 2012
	508	since 2010
	5008	2010–2011
CONFIGURATION	BUFFER TIME	RATING
default (K3)	not applicable	
K24	14 sec.	★★★★

## Peugeot eMyWay (RT6)


EMYWAY (RT6)	CAR MODEL		MODEL YEAR	
	508	Since 2011		
	CONFIGURATION	BUFFER TIME	RATING	
	default (K3)	23 sec.	★★★	
	K8	10 sec.	★★★★	
	K9	11 sec.	★★★★	

## Peugeot Navigation

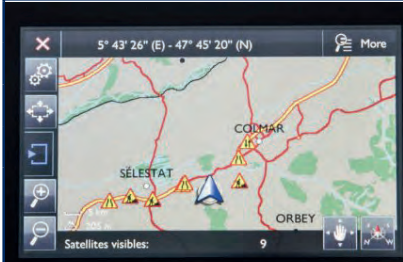
NAVIGATION	CAR MODEL	MODEL YEAR	
	508	Since 2011	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	2–4 sec.	★★★★★
	K14	7–10 sec.	★★★★★



# Peugeot SMEG (non-touch)

SMEG (NON-TOUCH)	CAR MODEL	MODEL YEAR	
	all	all	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	15 sec.	★★★★★
	K53	4 sec.	★★★★★
	After ignition ON, the first starting time is around 1 minute.		

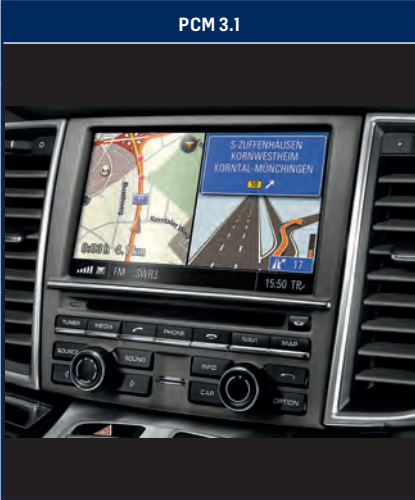
# Peugeot SMEG+

SMEG+	CAR MODEL	MODEL YEAR	
	all	all	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K8	4 sec.	★★★★★





# Porsche PCM 3.1



PCM 3.1	CAR MODEL	MODEL YEAR
	911	2008–2011
	981	2008–2011
	92A	since 2008
	981	2009–2013
	95B	2008–2010
	970 (G1)	2008–2012
	970 (G2)	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	30 sec.	★ ★ ★
K8	17 sec.	★ ★ ★
K13	18 sec.	★ ★ ★










## Renault Media Nav

MEDIA NAVIGATION	CAR MODEL	MODEL YEAR	
	Traffic	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	120 sec.	★
	K7	15 sec.	★★★★★

## Renault R-Link (1GEN)


R-LINK (1GEN)	CAR MODEL	MODEL YEAR	
	ZOE	2012-2015	
	Captur	2013-2015	
	Clio	2016-2016	
	Twingo III	2014-2016	
	Mégane	2008-2016	
	Kangoo	2008-2016	
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	17 sec.	★★★★★
	K7	12 sec.	★★★★★

## Renault Media Nav Evolution

MEDIA NAV EVOLUTION	CAR MODEL	MODEL YEAR	
	all	all	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	17 sec.	★★★★★
	K7	12 sec.	★★★★★




# Scania Premium Radio (AUS3)

PREMIUM RADIO (AUS3)		CAR MODEL	MODEL YEAR	
	R series			
	CONFIGURATION		BUFFER TIME	RATING
	default(K3)		23 sec.	★★★
	K23		12 sec.	★★★★★
	K10		20 sec.	★★★★






## Škoda Swing (RCD310)

SWING (RCD310)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

## Škoda Bolero (RCD510)

BOLERO (RCD510)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★



## Škoda Amundsen (RNS310)

AMUNDSEN (RNS310)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

## Škoda Amundsen Plus (RNS315)

AMUNDSEN PLUS (RNS315)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★






## Škoda Columbus (RNS510)


COLUMBUS (RNS510)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

## Škoda Bolero (Composition Media) until 2015


BOLERO (COMPOSITION MEDIA) UNTIL 2015	CAR MODEL	MODEL YEAR
	Fabia	2015
	Octavia	2013–2015
	Rapid	2013–2015
	Roomster	2012–2015
	Superb	2015
	Yeti	2011–2015
CONFIGURATION	BUFFER TIME	RATING
default(K3)	20 sec.	★★★
K54	6 sec.	★★★★★



## Škoda Amundsen (Discover Media) until 2015

AMUNDSEN (DISCOVER MEDIA) UNTIL 2015	CAR MODEL	MODEL YEAR
	Fabia	2015
	Octavia	2013–2015
	Rapid	2013–2015
	Roomster	2012–2015
	Superb	2015
	Yeti	2011–2015
CONFIGURATION	BUFFER TIME	RATING
default(K3)	34 sec.	★★
K43	4 sec.	★★★★★

## Columbus (Discover Media Pro) until 2015

COLUMBUS (DISCOVER MEDIA PRO) UNTIL 2015	CAR MODEL	MODEL YEAR
	Fabia	2015
	Octavia	2013–2015
	Rapid	2013–2015
	Roomster	2012–2015
	Superb	2015
	Yeti	2011–2015
CONFIGURATION	BUFFER TIME	RATING
default(K3)	76 sec.	★
K8	60 sec.	★★
K9	60 sec.	★★





## SsangYong Navigation

NAVIGATION	CAR MODEL	MODEL YEAR	
	Tivoli		
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K29	5 sec.	★★★★★

## SsangYong Non-Navigation

NON-NAVIGATION	CAR MODEL	MODEL YEAR	
	Tivoli		
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K30	10 sec.	★★★★★





## Subaru CD / Radio (Panasonic)

CD/RADIO (PANASONIC)	CAR MODEL	MODEL YEAR	
	BRZ	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	not applicable	
	K4	6 sec.	★★★★★

## Subaru CD / Radio

CD/RADIO	CAR MODEL	MODEL YEAR	
	Trezia	since 2011	
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	not applicable	
	K32	4 sec.	★★★★★

## Subaru CD / Radio (Clarion)


CD/RADIO (CLARION)	CAR MODEL	MODEL YEAR	
	Forester	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	15 sec.	★★★★★




## Subaru CD / Radio (Clarion)

CD/RADIO (CLARION)	CAR MODEL	MODEL YEAR	
	Impreza	since 2012	
	XV	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	15 sec.	★★★★

## Subaru Navigation

NAVIGATION	CAR MODEL	MODEL YEAR	
	Legacy	2010–2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	22 sec.	★★★
	K2	10 sec.	★★★★
	K9	11 sec.	★★★★

## Subaru Navigation


NAVIGATION	CAR MODEL	MODEL YEAR	
	Outback	2010–2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	22 sec.	★★★
	K2	10 sec.	★★★★
	K9	10 sec.	★★★★



## Subaru Navigation (harman / kardon)

NAVIGATION (HARMAN/KARDON)	CAR MODEL	MODEL YEAR		
	Forester	since 2013		
	Impreza	since 2012		
	XV	since 2012		
	CONFIGURATION	BUFFER TIME	RATING	
	default (K3)	22 sec.	★★★★	
	K2	10 sec.	★★★★★	
	K31	10 sec.	★★★★★	

## Subaru Fujitsu Ten Starlink 86271AL340

FUJITSU TEN STARLINK 86271AL340	CAR MODEL	MODEL YEAR		
	Outback	since 2015		
	CONFIGURATION	BUFFER TIME	RATING	
	default (K3)	not applicable		
	K44	15 sec.	★★★★★	

Suzuki



# Suzuki Navigation

NAVIGATION	CAR MODEL	MODEL YEAR	
	Grand Vitara	since 2015	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K13	10 sec.	★★★★★
	K10	15 sec.	★★★★★



TESLA



# Tesla Model S (SW 6.1)



MODEL S (SW: 6.1)		CAR MODEL	MODEL YEAR	
		Model S	since 2014	
		CONFIGURATION	BUFFER TIME	RATING
		default (K3)	20 sec.	★★★
		K2	11 sec.	★★★★★
		K6	14 sec.	★★★★★





## Toyota CD / Radio (W53826)

CD/RADIO (W53826)	CAR MODEL	MODEL YEAR
	Auris E150 (facelift)	2010–2012
	Avensis (T27)	2009–2011
	GT86	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N. A.	
K4	6 sec.	★★★★★


## Toyota CD / Radio (W53843)

CD/RADIO (W53843)	CAR MODEL	MODEL YEAR
	Auris E150 (facelift)	2010–2012
	Avensis (T27)	2009–2011
	GT86	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N. A.	
K4	6 sec.	★★★★★

## Toyota CD / Radio (W53848)

CD/RADIO (W53848)	CAR MODEL	MODEL YEAR
	Auris E150 (facelift)	2010–2012
	Avensis (T27)	2009–2011
	GT86	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N. A.	
K4	6 sec.	★★★★★


## Toyota RD45

RD45	CAR MODEL	MODEL YEAR	
	ProAce	since 2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N. A.	
	K24	14 sec.	★★★★

## Toyota Touch & Go


TOUCH & GO	CAR MODEL	MODEL YEAR	
	Prius Plug in	since 2012	
	Prius+	since 2012	
	Prius Plug in	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K7	11 sec.	★★★★

## Toyota Navigation (harman / kardon)

NAVIGATION (HARMAN/KARDON)	CAR MODEL	MODEL YEAR	
	PriusC	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	22 sec.	★★★
	K2	10 sec.	★★★★
	K9	11 sec.	★★★★




## Toyota Touch & Go

TOUCH & GO	CAR MODEL	MODEL YEAR	
	Hilux	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	40 sec.	★★
	K6	40 sec.	★★

## Toyota Touch & Go

TOUCH & GO	CAR MODEL	MODEL YEAR	
	Yaris	2011–2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K34	10 sec.	★★★★

## Toyota Touch & Go (Hybrid)

TOUCH & GO (HYBRID)	CAR MODEL	MODEL YEAR	
	Yaris	2011–2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K35	10 sec.	★★★★

## Toyota Touch & Go 2

TOUCH & GO 2	CAR MODEL	MODEL YEAR	
	Yaris	since 2015	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K36	10 sec.	★★★★

## Toyota Touch & Go 1

TOUCH & GO 1	CAR MODEL	MODEL YEAR	
	Avensis	2012–2015	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K37	10 sec.	★★★★

## Toyota Touch & Go 1

TOUCH & GO 1	CAR MODEL	MODEL YEAR	
	Auris	2012–2015	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K38	12 sec.	★★★★
	K42	12 sec.	★★★★

## Toyota Touch & Go Plus (Hybrid)

TOUCH & GO PLUS (HYBRID)	CAR MODEL	MODEL YEAR	
	Auris	2012–2015	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K41	12 sec.	★★★★★


## Toyota CD/ Radio

CD/RADIO	CAR MODEL	MODEL YEAR	
	Verso S	2011–2013	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K32	4 sec.	★★★★★





## Volvo Sensus

SENSUS	CAR MODEL	MODEL YEAR
	Volvo S60	since 2011
	Volvo S80	since 2012
	Volvo V40	since 2013
	Volvo V50	since 2010
	Volvo V60	since 2011
	Volvo V70	since 2012
	Volvo XC60	since 2012
	Volvo XC70	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	24 sec.	★★★
K16	20 sec.	★★★
K27	21 sec.	★★★

## Volvo Sensus Connect

SENSUS CONNECT	CAR MODEL	MODEL YEAR
	Volvo V60	since 2011
	Volvo V70	since 2012
	Volvo XC60	since 2012
	Volvo XC70	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	40 sec.	★★
K26	13 sec.	★★★★

# Volvo Sensus Connect

SENSUS CONNECT	CAR MODEL	MODEL YEAR	
	XC60 Ocean Race	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K40	22 sec.	★★★

# Volvo AUU

AUU	CAR MODEL	MODEL YEAR	
	Volvo S80	since 2011	
	Volvo V70	since 2011	
	Volvo XC60	since 2011	
	Volvo XC70	since 2011	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K33	8 sec.	★★★★



# Volkswagen RCD310

RCD310	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★



# Volkswagen RCD510

RCD510	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
Scirocco	since 2009	
Sharan	since 2011	
Tiguan	since 2007	
Touran	since 2008	
Transporter	since 2010	
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★





# Volkswagen RNS310

RNS310	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
Tiguan	since 2007	
Touran	since 2008	
Transporter	since 2010	
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★




# Volkswagen RNS315

RNS315	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★



# Volkswagen RNS510


RNS510	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
Transporter	since 2010	
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★




## Volkswagen RNS810

RNS810	CAR MODEL	MODEL YEAR	
	Phaeton	since 2009	
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	16 sec.	★★★
	K8	6 sec.	★★★★★
	K10	6 sec.	★★★★★

## Volkswagen RCD550

RCD550	CAR MODEL	MODEL YEAR	
	Touareg	since 2010	
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	16 sec.	★★★
	K8	6 sec.	★★★★★
	K10	6 sec.	★★★★★

## Volkswagen RNS850

RNS850	CAR MODEL	MODEL YEAR	
	Touareg	since 2010	
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	16 sec.	★★★
	K8	6 sec.	★★★★★
	K10	6 sec.	★★★★★

# Volkswagen Composition Media (until 2015)

COMPOSITION MEDIA (UNTIL 2015)	CAR MODEL	MODEL YEAR
	Beetle	since 2015
	Caddy	since 2015
	California	since 2015
	Caravelle	since 2015
	EOS	since 2015
	Golf	since 2013
	Jetta	since 2011
	Multivan	since 2015
	Passat	since 2014
	Polo	since 2014
	Sharan	since 2010
	Tiguan	since 2009
	Touran	since 2015
	Transporter	since 2014
CONFIGURATION	BUFFER TIME	RATING
default(K3)	20 sec.	★★★
K54	6 sec.	★★★★★



# Volkswagen Discover Media (until 2015)



DISCOVER MEDIA (UNTIL 2015)	CAR MODEL	MODEL YEAR
	Beetle	since 2015
	Caddy	since 2015
	California	since 2015
	Caravelle	since 2015
	EOS	since 2015
	Golf	since 2013
	Jetta	since 2011
	Multivan	since 2015
	Passat	since 2014
	Polo	since 2014
	Sharan	since 2010
	Tiguan	since 2009
	Touran	since 2015
	Transporter	since 2014
CONFIGURATION	BUFFER TIME	RATING
default(K3)	34 sec.	★★
K43	4 sec.	★★★★★





# Volkswagen Discover Media Pro (until 2015)

DISCOVER MEDIA PRO (UNTIL 2015)	CAR MODEL	MODEL YEAR
	Beetle	2015
	Caddy	2015
	California	2015
	Caravelle	2015
	EOS	2015
	Golf	2013–2015
	Jetta	2011–2015
	Multivan	2015
	Passat	2014–2015
	Polo	2014–2015
	Sharan	2010–2015
	Tiguan	2009–2015
Touran	2015	
Transporter	2014–2015	
CONFIGURATION	BUFFER TIME	RATING
default(K3)	76 sec.	★
K8	60 sec.	★★
K9	60 sec.	★★★




# COMPATIBILITIES FOR AFTERMARKET HEAD UNITS AND HIFI SYSTEMS




# clarion



## Clarion CMD8

CMD8			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	16 sec.	★★★
	K7	8 sec.	★★★★★
	K9	8 sec.	★★★★★

## Clarion CMS2

CMS2			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	6 sec.	★★★★★


## Clarion CZ703E

CZ703E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K4	5 sec.	★★★★★

## Clarion FZ502E

FZ502E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K4	5 sec.	★★★★★

## Clarion NX302E

NX302E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	4 sec.	★★★★★
	K13	4 sec.	★★★★★

## Clarion NX501E

NX501E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K7	4 sec.	★★★★★
	K13	4 sec.	★★★★★



## Clarion NX502E

NX502E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K10	27 sec.	★★★
	K13	28 sec.	★★★


## Clarion NX702E

NX702E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K10	28 sec.	★★★
	K13	27 sec.	★★★

## Clarion VX401E

VX401E			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	36 sec.	★★★
	K2	27 sec.	★★★
	K9	27 sec.	★★★

# Clarion VZ402E

VZ402E			
 The image shows a Clarion VZ402E car stereo unit. The screen displays 'USB' at the top, followed by 'MP3 1/15' and a progress bar. Below that, it says 'User' and then 'Name: Clarion H.M.I.', 'Artist: Super Clarion', and 'Album: Clarion Best Hits'. At the bottom of the screen, it shows '10:00 AM'. The unit has various buttons like 'Eject', 'Back', 'List', and 'Audio Settings'.	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	40 sec.	★★
	K8	26 sec.	★★★
	K9	29 sec.	★★★




# Eonon G2110F


AVR-660			
CONFIGURATION		BUFFER TIME	RATING
default (K3)		10 sec.	★★★★
			




## Harman/Kardon AVR-660

AVR-660			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K2	10 sec.	★★★★
	K9	10 sec.	★★★★

## Harman/Kardon AVR-760

AVR-760			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K2	10 sec.	★★★★
	K9	10 sec.	★★★★

## Harman/Kardon BDS-700


BDS-700			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	34 sec.	★★
	K9	22 sec.	★★★★
	K2	24 sec.	★★★★



JVC®



# JVC KDR860BT

KDR860BT			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K63	2 sec.	★★★★★


# JVC KDR-X30

KDR-X30			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K63	2 sec.	★★★★★


# Pioneer



## Pioneer AVIC-F30BT

AVIC-F30BT			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	6 sec.	★★★★★

## Pioneer AVH-X7500BT

AVH-X7500BT			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	23 sec.	★★★
	K13	10 sec.	★★★★★
	K2	13 sec.	★★★★★

## Pioneer AVH-X7700BT

AVH-X7700BT			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	10 sec.	★★★★★
	K8	9 sec.	★★★★★
	K9	12 sec.	★★★★★


# SONY




## Sony CDX-HR910UI

CDX-HR910UI			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	6 sec.	★★★★★

## Sony CDX-MR60


CDX-MR60			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	6 sec.	★★★★★

## Sony DSX-M50BT

DSX-M50BT			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	5 sec.	★★★★★



# Sony MEX-M70BT

MEX-M70BT			
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	not applicable	
	K9	5 sec.	★★★★★

# Sony XAV-63

XAV-63			
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	36 sec.	★★
	K8	26 sec.	★★★
	K9	26 sec.	★★★

# Sony XAV-64BT

XAV-64BT			
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	36 sec.	★★
	K8	26 sec.	★★★
	K9	26 sec.	★★★

# Sony XSP-N1BT

XSP-N1BT			
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	not applicable	
	K4	5 sec.	★★★★★



## Zenec ZE-NC4121D

### ZE-NC4121D (HYUNDAI SPECIFIC AFTERMARKET RADIO)



CONFIGURATION	BUFFER TIME	RATING
default (K3)	not applicable	
K2	5 sec.	★★★★★

## Zenec ZE-NC514

### ZE-NC514



CONFIGURATION	BUFFER TIME	RATING
default(K3)	32 sec.	★★
K2	32 sec.	★★
K3	32 sec.	★★

Despite all efforts and several tests Dension cannot guarantee that all information provided in the current product catalogue are valid and up-to-date. Compatibilities, features, and head unit types may vary according to the target market also. Dension does not take any liability for any damage, extra costs, or service charges occurred due to inaccurate information contained in this issue.



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