

For vehicles with 1-DIN or 2-DIN radio

Radical R-D111 and R-D211 Android Naviceivers



HIGHLIGHT
Upper-Class
CAR&HiFi 4/2020

Open-Android-Navis

► With open-source Android 9.0 operating system the two new models from Radical put app diversity into the dash.

At first glance the duo models R-D111 and R-D211 seem very different from each other. Whereas the R-D211 is a classic 2-DIN model with a 7-in monitor, the R-D111 might have a smaller 1-DIN body, but it has a much larger 10.1-in touchscreen. The latter sits in a ball joint so that it can be swiveled in any direction. Otherwise the two devices are technically identical. Furthermore, for 2-DIN models Radical offers a wide selection of vehicle-specific installation kits. These are available from 17 euros and comprise all the components necessary to replace an OEM radio of

a specific vehicle model with a 2-DIN retrofit device: for example, the removal tool for the OEM radio, the metal mounting frame, the vehicle-specific plastic front panel, and other power, speaker and FM antenna adapters.

App Diversity

Thanks to the open-source Android operating system you can install the apps you require on both Radical devices including, for example, navigation software. This is done using the APK Installer. The internal memory available is 16 GB. 1.3 GHz quad-core CPU

and 2 GB RAM ensure smooth functioning of the applications. In addition, they have an integrated Wi-Fi module. Having the smartphone as a hotspot gives you use of web-based applications like the streaming services Spotify and YouTube, or the Internet browser.

Easy Connection

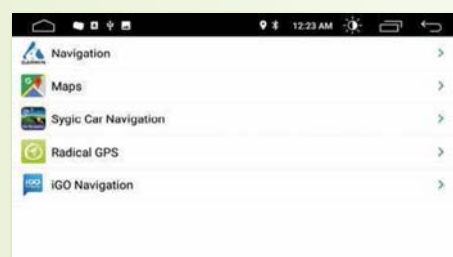
Where Android smartphones are connected to the Radical devices via Wi-Fi, you can mirror the content of the phone on the moniceiver using the Easy Connection app. In fact you can then control the apps from the touchscreen of



Intuitively adjustable time alignment



10-band graphic equalizer



Navigation apps can also be installed



The main menu is clear and well laid out

Comfortable media player controls



the car radio. Apple iPhones are also supported by Easy Connect – in this case the apps have to be controlled from the iPhone. For connecting Android phones and USB sticks by cable, the devices provide three USB sockets. An HDMI input is also available. In addition to the usual AV inputs and outputs the R-D111 and R-D211 have two camera inputs with a switched power supply.

Digital Radio and Bluetooth

For unimpaired radio reception Radical also offers a DAB+ digital receiver in addition to the FM tuner. Beside crystal clear reception the (tuner?) former offers MOT Slideshow, a station list and DLS Text. A suitable windshield antenna is already included in the package. The Bluetooth module allows comfortable telephony via an internal or external microphone (included in the kit). Up to 1000 phonebook contacts can be synchronized. With the mobile phone connected over Bluetooth you can also (play... stream?) transfer its music library or music from streaming apps wirelessly to the Radical devices.

Audio

The range of features for both models is immense. In spite of the budget price they have a built-in digital signal processor that offers an abundance of sound optimization options. These include a ten-band graphic equalizer, a crossover, the smart bass function and even time alignment for the front and rear channels.

Test results

In practice both the R-D111 and the R-D211 perform their many tasks effortlessly. The capacitive touchscreen responds smoothly, with all functions being stable and of high quality. The easy and safe use on the road of common applications is achieved by clear design of the user interface. Here the 1-DIN variant R-D111 naturally has a slight edge due to its imposing, huge display and larger buttons. Nevertheless the 7-in display of the 2-DIN device also does its job very well.

Summary

The Radical R-D111 impresses with its huge swivel display, whereas the 2-DIN R-D211 model retains a flush installation. Both are convincing devices thanks to their open-source Android operating system, reliable and versatile functions, and their good ease of use.

Here the Radical R-D111 fits:

In cars having a single DIN slot. No essential control elements have to be covered by the display.

Here the Radical R-D211 fits:

In all cars having a double DIN slot. For many models installation and connector adapters are available as accessories.



Moniceiver	Radical R-D111	Radical R-D211
Distributor	ACR	ACR
Hotline	CH-Bad Zurzach info@acr.eu	CH-Bad Zurzach info@acr.eu
▶ Sound quality	20 % 1,2	1,2
Bass	4 % 1,5	1,5
Neutrality	4 % 1,0	1,0
Transparency	4 % 1,0	1,0
Soundstaging	4 % 1,5	1,5
Dynamics	4 % 1,0	1,0
▶ Picture	20 % 1,2	1,2
Sharpness	3,33 % 1,0	1,0
Brightness	3,33 % 1,5	1,5
Contrast	3,33 % 1,0	1,0
Color Rendering	3,33 % 1,0	1,0
Viewing angle	3,33 % 1,0	1,0
Reflection	3,33 % 1,5	1,5
▶ Lab	15 % 1,8	1,7
• USB	7,5 % 2,0	2,0
Distortion	3,75 % 1,5	1,5
Signal/Noise Ratio	3,75 % 2,5	2,5
• Tuner	1,88 % 1,6	1,4
Frequency response	1,88 % 2,0	2,0
Crosstalk	1,88 % 1,5	1,5
Distortion	1,88 % 1,5	1,5
Signal/Noise Ratio	1,88 % 1,5	0,5
▶ Practice	45 % 0,8	0,8
Operation	10 % 1,0	1,0
Reception test	20 % 0,5	0,5
Workmanship	10 % 1,0	1,0
Features	20 % 1,0	1,0

Technical data

Amplifier output / W	15	15
Output Voltage / V	1,1	1,1
Output impedance / ohms	1068	1089
USB		
THD+N (%)	0,021	0,019
SNR (A)	78	78
Tuner		
THD+N (%)	0,136	0,126
Signal/Noise Ratio (A)	50	72
Crosstalk (dB)	35	35
Monitor size	25,6 cm	17,8 cm
Touchscreen	•	•
Dual Zone	-	-
Dolby Digital / Prologic Decoder	-	-
param./graph EQ-bands	- / 10	- / 10
Crossover	HP	HP
Time alignment	•	•
Pre-outs	6	6
AV-in / AV-out	• / •	• / •
Digital-out	-	-
Connectors camera / navigation	2 / -	2 / -
USB front/rear	- / 3	- / 3
iPod control	-	-
Bluetooth HFP/A2DP	• / •	• / •
Other	Open Android	Open Android

Summary

Price	about 380 Euro	about 300 Euro
Sound quality	20 % 1,2	1,3
Picture	20 % 1,2	1,3
Lab	15 % 1,8	1,5
Practice	45 % 1+	1+
Price/performance	excellent	excellent

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Mark

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„App diversity thanks to Open Android“