

# Windows USB drivers for the BCF2000/BCR2000

Version 1.1.0

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*This document is a 'reprint' of the discussion on USB drivers in the BC Manager manual.*

See <http://home.kpn.nl/f2hmjvandenbergh281/bcman.html>.

If you wish to use a USB connection between your BC and your computer, you must install an appropriate USB driver. You have the following options:

- **Microsoft's 'USB Audio Device':**

Advantage:

Available under any 'modern' Windows operating system. Windows XP and later install this driver by default.

Drawbacks:

1. The resulting device names of the USB-based MIDI ports are truly horrible: the driver only assigns incremental *numbers* to any simultaneously available ports. The situation gets particularly confusing when you connect more than one B-Control via USB.
2. The driver has a *single-client* nature: it can only connect to one computer program at the same time. On the other hand, all Behringer's USB drivers (see below) allow you to connect a virtually unlimited number of computer programs simultaneously; so for instance you can work with BC Manager and a DAW program (Ableton Live, Cubase, Sonar etc.) at the same time.

- **Behringer's BCF2000/BCR2000 USB driver version 1.1.1.0:**

Advantage:

The resulting device names of the USB-based MIDI ports are much more informative than under Microsoft's 'USB Audio Device'. (However, see drawback 2 below.)

Drawbacks:

1. To install this driver under the 32-bit version of Windows Vista, 7 or 8(?), you need to set the installer's compatibility mode to 'Windows XP (Service Pack 2)' on the Compatibility tab of the file's Properties dialog box.  
Even worse, this driver can't be installed *at all* under the 64-bit versions of Windows XP and later.
2. The driver provides very confusing MIDI port names in operating mode U-4.  
Note that Behringer no longer offer this driver on their web site.

- **Behringer's BCF2000/BCR2000 USB driver version 1.1.1.1:**

This has the same advantage and drawbacks as version 1.1.1.0. However, it fixes one or two small bugs in version 1.1.1.0. Behringer no longer offer this driver on their web site either.

- **Behringer's BCF2000/BCR2000 USB driver version 1.2.1.3 (dated October 19, 2005):**

Advantage:

This driver consistently uses transparent device names for its USB-based MIDI input and

output ports (in particular in operating mode U-4).

Drawback:

The same installation restrictions as version 1.1.1.0.

- **Behringer's generic USB MIDI driver version 1.0.10** (dated December 15, 2009):

Advantage:

No more installation problems. As stated on the Behringer web site, this driver comes in two versions:

1. BEHRINGER\_MIDI\_WIN32\_1.0.10.zip for 32-bit operating systems (Windows XP, Vista, 7 and 8(?)).
2. BEHRINGER\_MIDI\_X64\_1.0.10.zip for Windows 7 and 8(?)'s 64-bit version. (However, does this mean there is no version for *64-bit XP and Vista*?)

Drawback:

The resulting device names of the USB-based MIDI ports are not as transparent as those of Behringer's BCF2000/BCR2000 driver 1.2.1.3 (or even 1.1.1.0 and 1.1.1.1). E.g. for a BCR2000 in operating mode U-4 you get 'BCR2000 port 1' and 'BCR2000 port 2' instead of version 1.2.1.3's 'BCR2000[1]' and 'BCR2000[1]-B'.

I recommend Behringer's BCF2000/BCR2000 USB driver 1.2.1.3 for any 32-bit version of Windows; to install this driver under the 32-bit versions of Windows Vista or 7, you must set bcr2000-driver-setup.exe's compatibility mode to 'Windows XP (Service Pack 2)'. For the 64-bit versions of XP, Vista, 7 and 8(?), try Behringer's generic USB MIDI driver version 1.0.10.

## Using multiple BCF2000s/BCR2000s

It is very common to run into problems when you try to use two or more BCF2000s or BCR2000s via USB simultaneously.

Perhaps it helps to distinguish two aspects of a working USB MIDI driver:

1. The installed USB driver itself, i.e. its dll file(s), etc.
2. The USB MIDI devices defined (for the driver) in the Windows registry.

In my experience, (re-)installing a USB driver often occurs only for a particular hardware device (e.g. BCF2000/BCR2000), thus affecting *only* that device's settings (including its port names).

So for instance, if you first install driver P for hardware devices X and Y, *then* driver Q for device X, device Y may still have its 'old' settings/names. In other words, you may have to install driver Q *twice* in this case; not for the driver itself (once should be enough for that), but to update the settings/names of both individual hardware devices X and Y.

It may help to look at the device settings in Windows' Device Manager.

E.g. under Windows XP, select Control Panel ⇒ System ⇒ Hardware ⇒ Device Manager.

In Device Manager, select View ⇒ 'Devices by connection', then look for the USB devices under 'ACPI Uniprocessor PC' ⇒ 'Microsoft ACPI-Compliant System' ⇒ 'PCI bus' (at least that's where they are in my case): in this way you can see exactly which USB ports use which drivers.