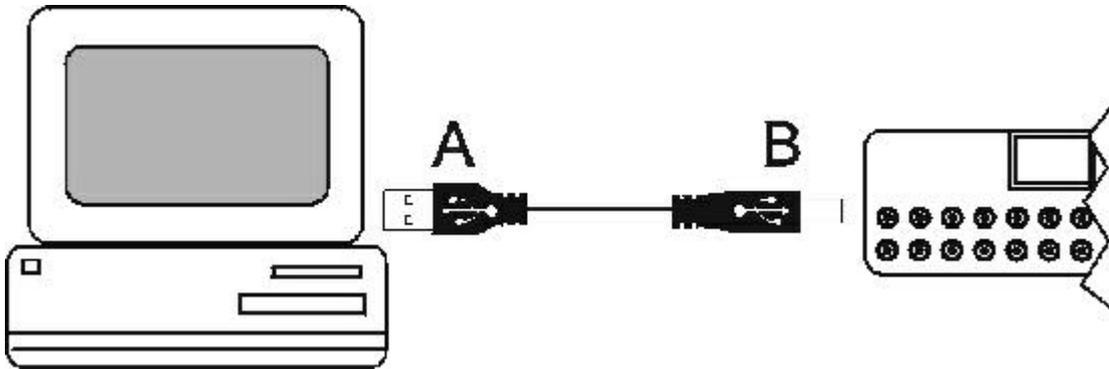# Getting Started with your Evolution UC16

1. Installing the Software Pack

With your PC turned on, insert the Evolution Software Pack CD-ROM into your computer's CD-ROM drive. The CD-ROM will Auto-Run. Proceed with the installation process by following the on-screen instructions. After the installation has finished, keep the CD-ROM in the drive.

If your CDROM does not auto-run, the installation can be started by selecting **Run...** from the Windows **Start** Menu, and entering *d:\setup.exe* where *d* is the letter of your CD-ROM drive.

2. Connecting the UC16 to your computer's USB port

If your computer has a USB socket then you can connect the UC16 using the USB cable which is supplied. This is the cable which has the USB symbol on both ends (shown below). With your computer turned on, plug the wide flat end (A) into the USB socket at the back of your computer. Plug the square end (B) into the back of the UC16.

This cable provides the UC16 with its power. Switch the UC16 on and the red LED display will light up.

You will now be taken through the process of installing two drivers that your PC requires. The USB driver will be installed first. When this is completed, you then repeat the process to install the MIDI driver.

When the cable is connected an 'Add New Hardware Wizard' window will appear on your computer screen. Make sure that the Evolution Software CD-ROM is still in your CD-ROM drive and press the 'Next' button.

Select the recommended option: 'Search for the best driver for your device' and then press the 'Next' button to proceed to the next window. Select the 'CD-ROM Drive' check box and click the 'Next' button to proceed. (This is not applicable for Windows ME users)
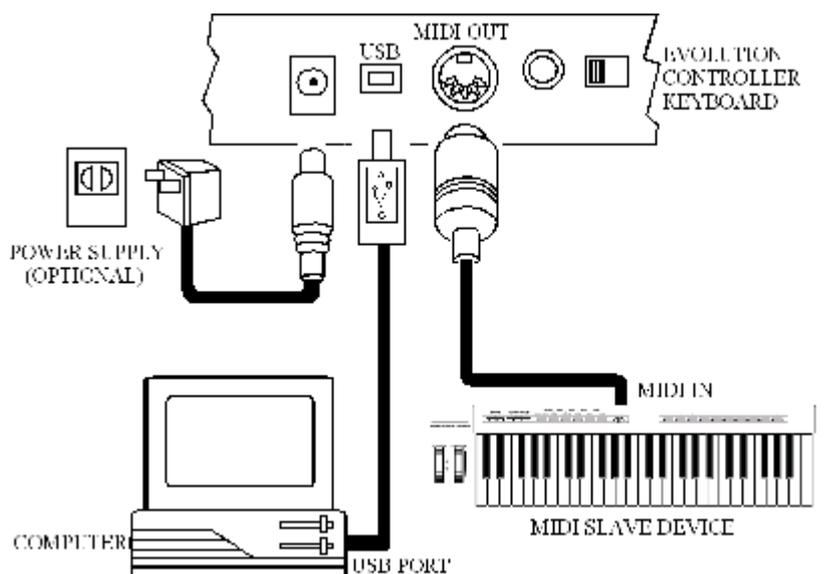
 The next window will inform you that the 'Evolution USB Driver' has been found. Click the 'Next' button to install the driver and view the final window. Click 'Finish' to complete the installation of your USB driver.

You are now taken through an identical process to install the MIDI driver. The 'Add New Hardware Wizard' window will appear saying 'Unknown Device'. Simply follow the same routine as before.

These are the basic steps. If you have problems or need more detailed instructions then there is a complete step by step guide which you can view and print out (recommended). Simply click on Start then Programs, select Evolution then Music Creator Docs and click on USB Driver Guide. It can also be found on our web site at www.evolution.co.uk/faqs

3. Connecting the UC16 to a sound module or other MIDI hardware

You can connect the UC16 to a sound module or other MIDI hardware using a standard MIDI cable (not supplied). If you are not using the USB port at this stage you will need an external power supply, 9-12V DC, 250mA, centre positive. If you are powering through the USB port, a separate power supply is not necessary.

Data can be sent to the MIDI slave device from the computer by selecting 'MIDI out from USB' on the UC16. To do this press the Control Assign and Control Select buttons simultaneously.

4. Remove the Evolution Software Pack CD-ROM from your CD-ROM drive. Your UC16 is now set up and ready for use.

Now let's check out the features of the UC16...

Memory

There are 25 memory banks in total. Banks 1-4 are for your favourite settings and can be accessed instantly using the Preset buttons marked 1-4. To save your controller settings, press the MEMORY button and then type in the number of the memory bank which you want to use (1-25). Alternatively you can scroll up or down using the '+' or '-' buttons.

Each memory bank will store both the current Program number and channel transmit number for all of the 16 controllers.

To help you get the most out of your UC-16, we have pre-programmed the 25 memory buttons with a selection of the most popular Plug-Ins and Virtual Instruments.

For a full list go to www.evolution.co.uk/manuals and view the UC-16 manual.

The instant access 1 - 4 Presets are set up for the following:

Preset 1   Reason

Preset 2   HALion
Preset 3   FM7
Preset 4   GM Preset

Assignable Rotary Control Knobs

There are 16 assignable controllers selected by the 'CONTROL SELECT' & 'CONTROL ASSIGN' functions.

'*Assignable Controllers'* refers to any of the 16 assignable Knobs.

The basic operation is:-
Select the controller by moving it. Alternatively, you can press the CONTROL SELECT button and then type in the number using the keypad or '+', '-' buttons.   Press the CONTROL ASSIGN button and enter the new number using the keypad.

To change one of the assignable controllers, the UC16 uses the following method:

Press the 'CONTROL SELECT' button and release. Alternatively simply move the rotary control. The number of the presently selected MIDI controller will flash. Select a controller by moving any one of the assignable controllers, the numeric keypad or the +/- keys. The LED display will show the new MIDI controller number assignment.

Repeat this process to see the *controller number assignment* (0-132) for any Knob (1-16), by moving the relevant controller or by typing a new number.
If no keys are pressed or any of the assignable controllers moved, the LED display stops flashing after 3 seconds and returns to normal operation.

Press the 'CONTROL ASSIGN' button & release. The number entered at this point will be assigned to the last selected controller. The numeric entry uses the standard data entry system. (see section on Entering Numbers) If a complete number is entered the display stops flashing and the new assignment is stored. If the Inc/Dec keys are used, the revised value is shown on the LED display and the flashing time-out is reset.

Once a controller has been assigned the current knob position should be sent out. This ensures that when the controller if first moved it does not trigger a large jump from it's previous setting.

During the data entry stage while the LED display is flashing, the Knobs, *do not* function.

Here are some of the most popular controller numbers:

1   Modulation (Tremolo)
7   Volume
10   Pan position (left or right speaker)
64   Sustain (like the hold pedal on a piano)
67   Soft (like the damper pedal on a piano)
91   Reverb (makes the sound feel like it's in a room)
93   Chorus (depth and body)

A more detailed list of standard MIDI controller numbers is given in Appendix A.

Setting the MIDI Transmit Channel

The MIDI channel can be set for each rotary controller individually. To do this press the CHANNEL ASSIGN button. The channel the currently selected rotary dial is assigned to will flash on the LED display. For example, if the last selected dial is currently assigned to channel

1, the LED display will flash 'c1'. Increment or decrement the channel using the numeric keypad, or the '+' and '-' buttons.

Anything Else?

There is a full detail user manual on our web site at www.evolution.co.uk/manuals

5. Setting up your soundcard

Run Sound Studio II by selecting it from your Windows Start menu. Simply click on Start then Programs then select Evolution Software Pack and click on Sound Studio II. When the software starts,

Click 'Devices' from the 'Options' menu in the Sound Studio II software. If there is more than one MIDI Input device showing in the Input column on the left hand side, then try selecting each of the MIDI Input drivers individually in turn to see if they work. If you have connected to the USB port, you should see the UC16 listed by name.

If nothing is showing in the Input column on the left hand side and you are using the USB cable then you should reinstall the USB drivers that are on the Evolution Software Pack CD-ROM. Full instructions can be found in the USB Driver Guide. Simply click on Start then Programs, select Evolution then Music Creator Docs and click on USB Driver Guide, or go to www.evolution.co.uk/faqs

If you are using the Joystick cable and nothing is showing in the Input column then you should re-install your soundcard software. Once you have done this, reboot your PC and check in 'Devices' from the 'Options' menu in the Sound Studio II software to see if you have a MIDI IN driver listed. If you have but it doesn't work then make sure you have the most up-to-date software drivers for your soundcard. It is worth getting in touch with your soundcard manufacturer to ask them for the latest drivers. It is also quite common to find the updated drivers on the manufacturers' web site.

Another option is to go into your control panel and double-click on "Add New Hardware". Click on Next. When it asks for automatic detection of hardware - click No. Click on Next. Scroll down to the "Sound Video and Game Controllers" section. Click on Next. In the manufacturers section - go to "Microsoft". Click on the "MPU401" compatible driver option on the right hand side. Click on Next. It will now install the driver. You may need to insert your Windows CD-ROM. Follow the instructions. Reboot your machine. Run Sound Studio and select the MPU401 driver for input and output from the Options / Devices menu.

A more detailed trouble shooting section can be found at www.evolution.co.uk/faqs

Software Guides and Tutorials can be found in each program's Help Text by pressing the F1 key.

STANDARD CONTROLLER NUMBERS

00	Bank Select	44	Controller 44	88	Controller 88
01	Modulation	45	Controller 45	89	Controller 89
02	Breath Control	46	Controller 46	90	Controller 90
03	Controller 3	47	Controller 47	91	Reverb Depth
04	Foot Control	48	Gen Purpose 1 LSB	92	Tremelo Depth
05	Porta Time	49	Gen Purpose 2 LSB	93	Chorus Depth
06	Data Entry	50	Gen Purpose 3 LSB	94	Celeste (De-tune)
07	Channel Volume	51	Gen Purpose 4 LSB	95	Phaser Depth
08	Balance	52	Controller 52	96	Data Increment
09	Controller 9	53	Controller 53	97	Data Decrement
10	Pan	54	Controller 54	98	Non-Reg Param LSB
11	Expression	55	Controller 55	99	Non-Reg Param MSB
12	Effects Controller 1	56	Controller 56	100	Reg Param LSB
13	Effects Controller 2	57	Controller 57	101	Reg Param MSB
14	Controller 14	58	Controller 58	102	Controller 102
15	Controller 15	59	Controller 59	103	Controller 103
16	Gen Purpose 1	60	Controller 60	104	Controller 104
17	Gen Purpose 2	61	Controller 61	105	Controller 105
18	Gen Purpose 3	62	Controller 62	106	Controller 106
19	Gen Purpose 4	63	Controller 63	107	Controller 107
20	Controller 20	64	Sustain Pedal	108	Controller 108
21	Controller 21	65	Portamento	109	Controller 109
22	Controller 22	66	Sostenuto	110	Controller 110
23	Controller 23	67	Soft Pedal	111	Controller 111
24	Controller 24	68	Legato Pedal	112	Controller 112
25	Controller 25	69	Hold 2	113	Controller 113
26	Controller 26	70	Sound Variation	114	Controller 114
27	Controller 27	71	Resonance	115	Controller 115
28	Controller 28	72	Release Time	116	Controller 116
29	Controller 29	73	Attack Time	117	Controller 117
30	Controller 30	74	Cut-off Frequency	118	Controller 118
31	Controller 31	75	Controller 75	119	Controller 119
32	Bank Select LSB	76	Controller 76		
33	Modulation LSB	77	Controller 77	**Channel Mode Messages**	
34	Breath Control LSB	78	Controller 78		
35	Controller 35	79	Controller 79	120	All Sound off
36	Foot Control LSB	80	Gen Purpose 5	121	Reset all Controllers
37	Porta Time LSB	81	Gen Purpose 6	122	Local Control
38	Data Entry LSB	82	Gen Purpose 7	123	All Notes Off
39	Channel Volume LSB	83	Gen Purpose 8	124	Omni Off
40	Balance LSB	84	Portamento Control	125	Omni On
41	Controller 41	85	Controller 85	126	Mono On (Poly Off)
42	Pan LSB	86	Controller 86	127	Poly On (Mono Off)
43	Expression LSB	87	Controller 87		