



Demo 16 Fibre Optic Kit Manual

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Product Description

The Demo 16 DIY Fibre Optic Kit is the first of its kind anywhere in the world. Designed and manufactured in Australia, the Demo 16 uses our unique proprietary Emblazon control technology, that allows you to play back pre-programmed sequences on your Fibre Optics Kit, at the touch of a button.

The Demo 16 Light Engine utilises 16 LED's and 16 channels, all fully controlled using the Emblazon controller and programming software.

Advantages of Demo 16 LED series Light Engine

1. Suitable for installing on walls and in ceilings
2. No heat production
3. Full control of colours and sequences displayed
4. Individual colours can be selected.



Package Contents

quantity	item
1	Demo 16 LED Light Engine
1	300m reel Optical Fibre
16	Acrylic Joiners
1	ELS Emblazon Controller
1	24V Power Supply
1	3m communication cable (between controller and Demo16)
1	PC & Controller communication programming cable

Step by Step Installation Preparation



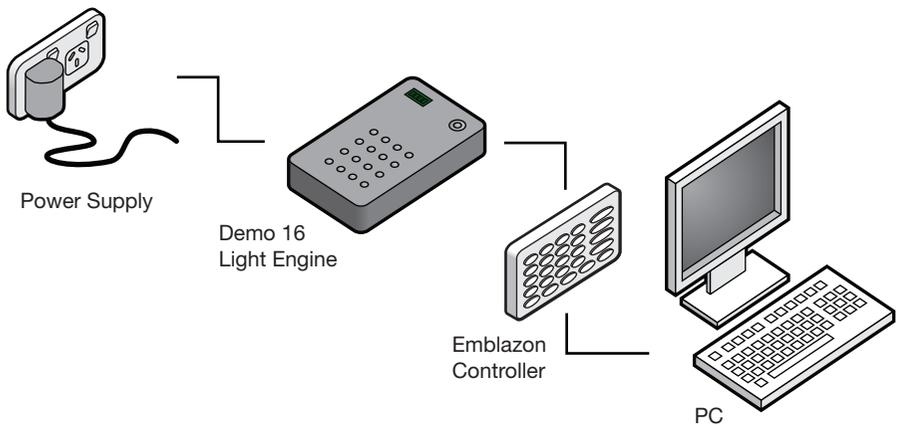
WARNING

Connect the Power Supply last. Everything else, including the controller, must be connected before the power supply is connected.



The Emblazon Controller is powered through the Demo 16 light engine. Therefore:

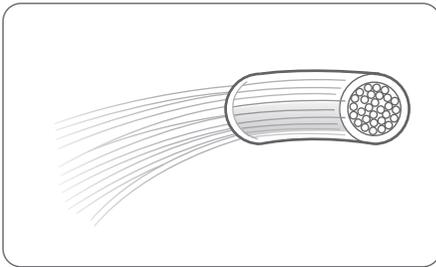
1. The Emblazon controller must be plugged into the Demo 16 light engine BEFORE the power is plugged in and switched on.
2. After programming the controller through your PC, DO NOT disconnect the controller from the Demo 16 light engine.



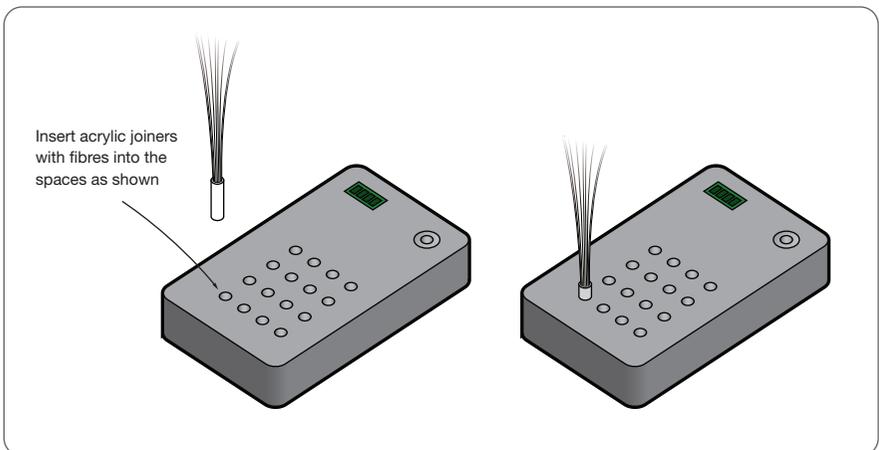
Step by Step Installation

Preparing the Kit

1. Using scissors, cut reel of fibres into desired lengths
2. Gather 25 lengths of fibres, and feed them into one acrylic joiner. This is supposed to be a very tight fit as there is no glue or adhesive used.

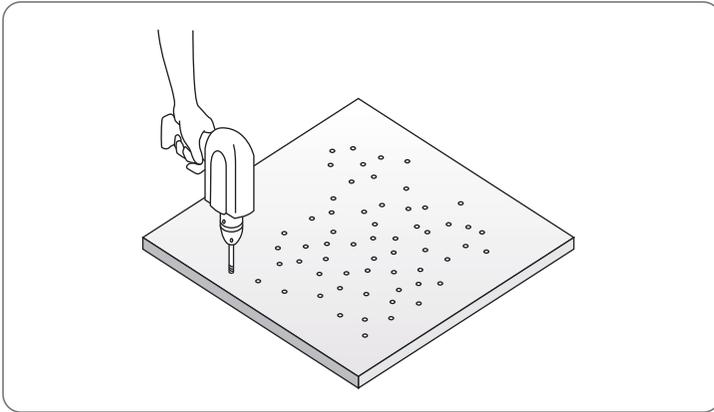


3. Repeat with all the fibres. When planting the fibres, note that each group of 25 fibres can be individually controlled.
4. Place the acrylic joiners with the fibres into the Demo 16 light engine.

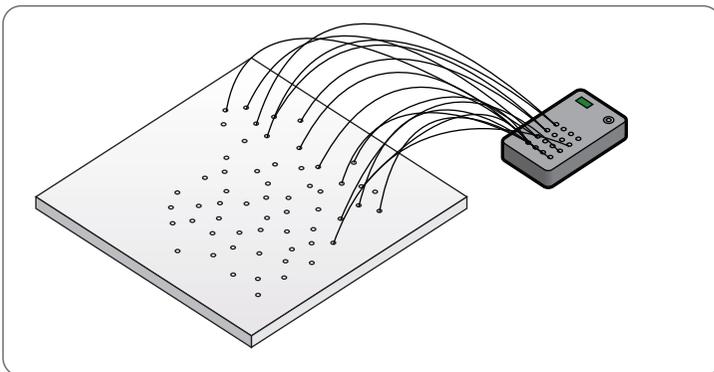


Step by Step Installation Installation

1. Using an electric drill, drill holes in the ceiling (or other surface) as you require for your application.



2. Place one fibre through one hole and seal with silicone to hold in place. Avoid using hot glue as the heat may damage the fibres.
3. For added effect, try putting in two fibres in one hole - this will give a "near and far" feeling to your star ceiling.



Step by Step Installation

Programming the controller



Before you begin, connect the Emblazon Controller to both the DEMO 16 and the PC via the cables provided.

1.0 Software Installation

Installing the Light Sequencer software is simply done by double clicking on the LightSequencerSetup executable which will open up a simple setup wizard. Follow the wizard prompts for desired set up. The LightSequencerSetup executable icon is depicted in Figure 1.1.

Once the software installation is complete, the Light Sequencer program will start automatically if the respective option is selected.

The program can be otherwise selected via the desktop shortcut icon depicted in Figure 1.2 or via the start menu with the following sequence:

Start > All Programs > Light Sequencer > Light Sequencer



LightSequencerSetup.exe

Figure 1.1 Light sequencer setup executable icon



Figure 1.2 Light Sequencer start up icon

2.0 Software Operation

Once the Light Sequencer program is started, a user development window opens such as the one in Figure 2.1.

This window allows the operator to enter any sequence desired for the network to execute.

NOTE: Ensure that each light source is pre programmed with a number from 1 to 16 identifying their specific position in the network.

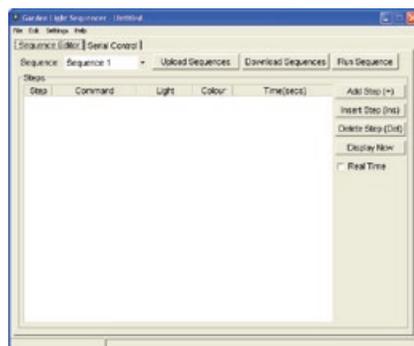


Figure 2.1 Light Sequencer sequence development window

Step by Step Installation

Programming the controller

If the lights, power modem, power supply and user keypad are all connected as required, one can connect the keypad to one of the COM ports of the computer which allows for real-time colour and position observation as well as trial sequence runs prior to the sequence being downloaded to the keypad.

Ensure that the correct COM port is defined by selecting:

Settings > Comm Port

Then simply enter the number associated with the COM port in use (usually COM1 or COM2).

The Sequence Edit tab is the one used for sequence development and editing while the Serial Control tab is used for higher order operations which require specialist hardware and software knowledge and hence are not required for general purpose applications.

Under the sequence tab we are offered a number of options which are explained below:

Sequence Using the pull down menu we can select under which sequence number we wish to develop the sequence. Up to 16 different sequences can be stored in the keypad for convenient changing between different sequences. For example: if one sequence is saved under "Sequence 1" and another sequence is saved under "Sequence 2" and so on, after downloading the sequences to the keypad a sequence can be easily executed by selecting "CYCLE" followed by the sequence number.

Upload Sequences The Upload Sequences button allows for sequences stored in the keypad to be uploaded to the computer to be stored and viewed or edited. All of the sequences are uploaded and a desired one can be viewed as per "Sequence" menu selection.

Download Sequences This option allows one to download the developed sequences to the keypad for future use. Developing new sequences from separate files and downloading them automatically overwrites any existing sequences so proper file management is required for preservations of old sequences if desired.

Run Sequences This option allows for a demonstration of the respective sequence without downloading and saving the set sequence in the keypad. This option is usually exercised while a sequence is being developed or edited.

Step by Step Installation

Programming the controller

3.0 Creating the Sequence

3.1 Click **File > New**

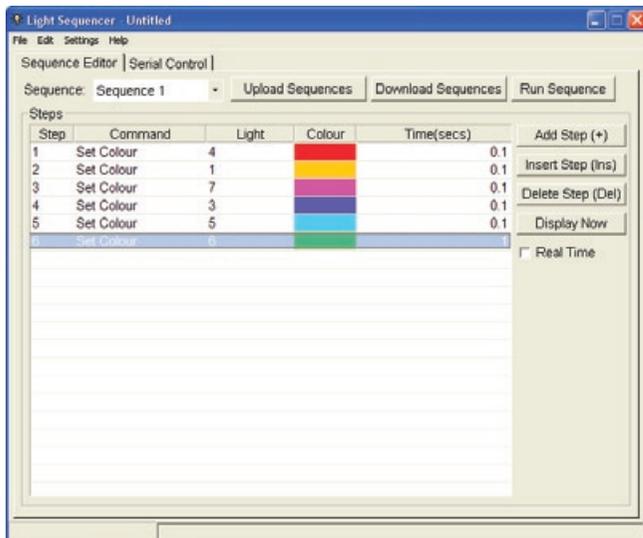
Check that it is on the correct sequence number (in the top right corner). Each sequence number is equivalent to a number on the Emblazon keypad; 1 to 16.

3.2 Click on **Add Step (+)**

Select the Command function in the corresponding step - select the desired effect. Next, go to Lights, and select the individual light that you want the effect to be displayed on. When you go to colour, a drop down colour wheel appears, select the colour you would like. Finally, type in how long you want the effect to last (in seconds)

3.3 Keep Adding Steps to reach your desired lighting sequence effect.

It is just a matter of playing around for a little while until you become familiar with the software. **Get into the habit of saving the sequence as frequently as possible, even after every step.**



Step by Step Installation

Programming the controller

4.0 Uploading Sequences to your Emblazon Controller

4.1 Hit **Run Sequence** to see what your sequence looks like. If you are happy with what you see, download the sequence onto the Emblazon Controller by clicking **Download Sequences**



Make sure the controller stays connected to the Demo 16 because it is powered by the Demo16.

5.0 Operating the Emblazon Controller

5.1 The default position for Emblazon products is slow automatic cycling. To set a particular colour to the lights, select individual lights by selecting the numbers 1-16 or press ALL, then select a colour by adding or reducing the amount or RED, GREEN or BLUE and checking the colour on the ELS Control Panel, then press SET to send the signal to the networked lights.

To enter the pre programmed sequence mode, deselect all the lights by pressing ALL. Press CYCLE. The sequence number that is running will be blinking on the keypad. You can choose which sequence to run by then selecting a number 1-16 on the keypad.

If you have any question about this, or any of our other products, please do not hesitate to contact us:

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