

## Hardware Overview

The E16 is a compact MIDI parameter controller which can communicate MIDI over TRS, USB or Bluetooth connections. There are 16 push encoders immediately available on the panel which can be configured for control of a destination device's MIDI CC, Control Change, PC, note and other MIDI parameters. The controls are organised in Scenes. A scene contains 12 pages, each page with 16 parameter controls. Each parameter can have up to 2 controlled destinations and 1 push action. Parameter values at any given time can be stored as a preset and recalled later. So a scene can hold 192 parameters, 384 destinations. Navigation is performed using the 16 push / encoder knobs and the shift button.

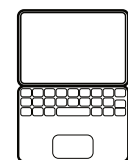
## Front Panel

## Shift Button

Multifunctional button.

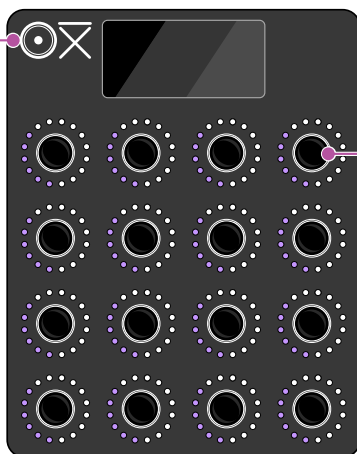
Operates

- Back navigation.
- Contextual menu.
- Quick access combos.



Destination Synth,  
Effect or DAW.

MIDI



## Control Knobs

16 Push / Turn.  
endless encoders.

Operates

- Direct Control.
- Navigation select.

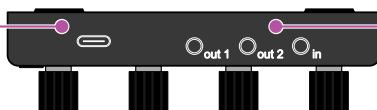
**Important:** Encoder Type.

The encoder type setting found in the system config must be set to match your hardware encoders in order for the software to manage this behavior. The options are normal, non-detented and detented.

## Rear / Edge

## USB-C

Power & MIDI.  
Power on/off using shift.



MIDI TRS Type A.  
1x In, 2x Out.

The E16 is supplied with this quick start guide, USB-C to A cable, and a high quality travel case. The full manual is available for download from the OXI Instruments site at [oxiinstruments.com](http://oxiinstruments.com). The firmware and settings can also be managed by connecting the E16 to the OXI App.

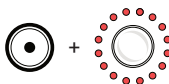
## Power On / Off

Power is supplied through the USB-C connection. Connect to a USB power supply, computer or power bank. It is recommended to use a supply greater than 200mA. The multifunctional button embedded in the OXI 'O' is used for turning the device on and off. This is called the shift button. To turn off, navigate to the main, top level menu. Tap the shift button to navigate backup in the structure of E16.



Power On

Hold the shift button

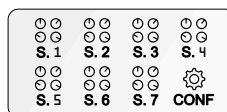
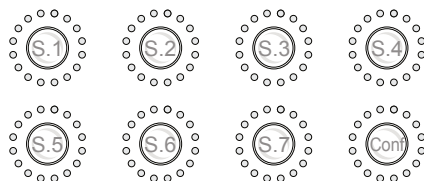


Power Off

Hold the shift button + hold the red lit encoder.

The main 'home' screen location in the structure of OXI **E16** is presented when first powering on. This display will show the 7 available scenes labelled S.1 to S.7. The encoder knobs will perform selection of each scene. Any knob which is controlling a menu command will be lit. Tap a knob to select the option and tap shift to backup in the menu structure. In the home screen, knob 8 selects the system options.

## Main Menu: Scene & System Selection



Up to 7 Scenes are directly accessible.

System menu and global settings.

In several screens, the knob position matches the position of the displayed elements. For example the scenes presented from the home page match the 1-8 knob positions.

## Conventions



Turn  
Edit or change value of the respective parameter



Tap  
Select the respective displayed option. Example to open a scene.



[Shift] + Tap  
Access secondary options and menu commands.



Tap [Shift]  
Navigate backup in the menu hierarchy structure

The rotary LEDs will indicate a parameter value setting.

Any knob which has a currently selectable menu option will be lit.

The [Shift] button is used as a classic shift, to access secondary parameters or to backup or exit menus.

## Scene Organisation

A scene is used to help structure and organise the controls which can then be saved in E16 memory. To start, select a scene to work with or to setup. You can open one of 7 scenes directly from the main, home menu. The home page scenes can be reorganised or one of the full set of 16 scenes can be selected by holding [Shift] and clicking any scene button. Within the shift menu the selected parameter page can also be changed.

### Choose a Scene.

Tap to select a scene from the home screen or hold shift + tap for other scenes.



### View or Change Controls

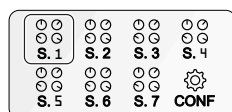
Hold [Shift] to select a page or to access the controls menu options.



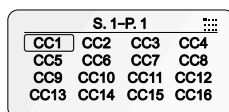
### Page or Menu Option

Tap a knob to change the page group or to choose an option.

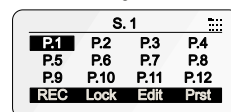
### Home / Scenes



### Control View



### Shift Menu / Page Selection



This is the main, home screen and is available upon power up. If any scene parameters have been edited, backing up to the home screen will prompt to save the scene.

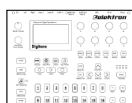


Save No



Save Yes

Turn a knob to adjust the MIDI output value for the respective parameter.



Menu Options: Knobs 13-16

**REC** - Record. Records parameter automation. Will capture the control value changes while turning a knob. Tap to stop.

**Lock**. Retains screen location to prevent backing up to the main, home menu.

**Edit**. Opens the edit menu for configuring each CC parameter.

**Prst** - Preset. Opens the load and save preset management menu.

## Scene Presets

Scenes can be saved to the E16 memory. Each scene contains 16 presets which stores the parameter values of all the knobs at a given time. Presets can be individually named and can be recalled for later use.

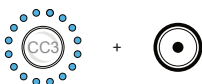
Different configurations are therefore possible in order to match various hardware setups. The preset option is located in shift menu, accessed from the control view by holding [Shift] and pressing Knob 16 (Prst). The preset management menu is then navigated using Knob 1 which will be shown lit. A maximum of 16 preset slots are available.

## Parameter Setup

The workflow to navigate and setup each parameter in the scenes control view aims for quick and easy editing. The destination, behavior and name for each control can be edited.

### Directly edit a control.

In the control view, hold a knob + tap [Shift]



Knobs represent each parameter control. The default knob assignment is in a numerical CC order. This can be changed.

It is also possible to open the control editor with [Shift] + Knob 15 for 'Edit' from the control view.

The control change options can be edited for each individual parameter. This sets how the parameter is displayed on the E16 and how it affects the destination.

Ctrl 3	Page	Scene
Abbr.	CC3	
Color	12	
Special	Off	

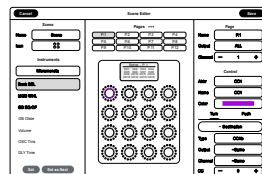
The 'Page' and 'Scene' settings are also accessible in this menu. Hold [Shift] + Tap Knobs to switch tabs for the editor focus. Tap a knob to select the control or page to edit from within these menus.

Parameter Options			Turn knob to navigate, tap knob to change.
	Function	Description	
Abbr	Label Abbreviation	Allows editing of up to 4 characters. This is the label used on the control page for the parameter. Editing of the label is made using the first 4 knobs, instructions as displayed.	
Color	LED ring color	Assigns the color for the LED indicators. These are displayed around the specific control encoder knob to represent its value.	
Special	Encoder Options	Can be set to off. Bipolar will operate -63 to +64 as opposed to 0-127. Snapshot will capture and store an A and B value to assign as the knob range. Rec will allow automation to be recorded to the knob when in the control page. Press the knob in the control page to start / stop recording.	
Dest1	Destination 1	Sets the parameters associated with controlling the destination device. Two device destinations can be assigned to each parameter. The options available are identical. Options includes range, type, target, output port, channel, etc	
Dest2	Destination 2		
Push	Knob push behavior	Sets the behavior of the push command on the encoder and its associated display.	
Copy	Copy Settings	Allows copying of these settings to be copied to another parameter.	
Paste	Paste Settings	Allows pasting of previously copied settings to this parameter.	
Clear	Clear settings	Allows clearing of the settings to defaults.	

## OXI App

While the setting up and configuration of the E16 is possible from the on-board controls, it is easier and quicker to create configurations using the OXI App and its integrated E16 Scene editor.

Download the App from the OXI site.





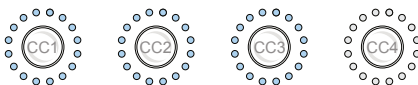
Get the full manual here  
oxiistruments.com/support

Tag us on social media:  
@oxiistruments, #oxione #oxiistruments

## Groups

Each of the individual parameters can also be added to a 'group'. A group is a collection of 2 or more parameters that can be controlled together as a collective set. Push and hold an encoder knob to view the group status. A maximum of 4 groups are available.

Set groups in the control view.



Group 1			
CC1	CC2	CC3	CC4
CC5	CC6	CC7	CC8
CC9	CC10	CC11	CC12
CC13	CC14	CC15	CC16

Tap the knobs to add to the group while holding the first knob. Each tap cycles through the behavior mode for the parameter.  
Example: Add knob encoder 2 and 3 to Group 1 controlled by knob 1.

### Operating Behavior

Parameters displayed with a 'solid' bounding box will follow any changes made by a primary lead control, but can also be adjusted independently. The primary lead controls are shown with a 'dotted' boundary box. In the example above only CC1, when adjusted, will affect its own value plus the value of the other 2 parameters. When changing the CC2 or CC3 knob, only its own individual value is changed. Other parameters in the group are not affected.

The amount of control applied by the primary lead to a follower can be set for each follower parameter. The amount is set on each follower by holding & turning its knob. In this example hold + turn knob 2 (CC2) to set the amount and repeat for CC3.

Hold Knob + Tap the knob first time      Group 1      **CC1**      **CC2**      **CC3**      **55%**  
push & turn

Lead      Follower      Follower      Follower Amount

Parameters displayed with a 'dotted' bounding box will act as a primary lead control. If any of these are adjusted, the values of the other parameters in the same group are also adjusted in harmony. The value change is relative to each of the parameter's original value. In the example below, all three knobs will affect the value of itself and the other two parameters.

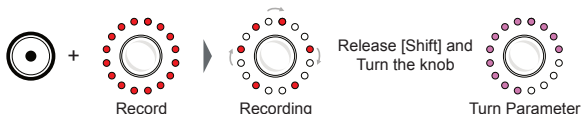
Hold Knob + Tap knob a second time.      Group 1      **CC1**      **CC2**      **CC3**

Lead & Follow      Lead & Follow      Lead & Follow

## Recording Automation

Recording start/stop can be controlled from the [control view](#) by holding [Shift] and tapping Knob 13, then turning a control knob will record the parameter changes. Other knobs can be setup to control recording and playback. These are configured in the special settings.

**Start.** Hold [Shift] + Tap Knob 13 'REC' in the control view, then adjust a parameter knob while recording.



**Stop.** Click the automated encoder knob to stop the recording for that particular control.

**Stop.** Hold [Shift] + Tap Knob 13 'STOP' again to stop recording and commence playback.



**Delete.** While automation plays in the control view, turn an encoder to cancel and delete its individual recording.  
To stop and clear [all recordings](#), Hold [Shift] and Keep Hold of Knob 13 - 'Rec/Stop'.