



Select Fixtures

To operate fixtures and change the values of attributes (for example dimmer, pan, tilt, or zoom), it is necessary to select fixtures first.

To select fixtures, use one of the following ways:

- Type the fixture ID in the command line, using the numeric keys.
- Tap at the fixture in a **fixture sheet**.
- Draw a lasso around a fixture in the **3D window**.
- Tap at a **group** containing fixtures.
- Tap at a **preset** containing fixture information.

To create groups or presets, use one of the three first listed methods in the bullet list above.



Hint:

To learn more about the font colors used when selecting/deselecting fixtures in the fixture sheet, see **System Colors** topic.

Examples

To recreate the examples, the following should be prepared:

- The grandMA3 demo show file is open. To load the grandMA3 demo show file, see **Show File Handling** topic.
- A fixture sheet window is open.
- The following fixture types are patched:
 - Ayrton Alienpix - RS Ex 16 Bit
 - Quantity: 3
 - FID: 301 - 303

To select fixtures 1 through 5, press the following hardkeys on the console or use the command section menu  :

Fixture 1 Thru 5 Please

This command is visible in the command line input:



```
MA User name[Fixture]> Fixture 1 Thru 5
```

Fixture 1 through 5 is selected. The five selected fixtures are displayed in a yellow font in the Fixture Sheet window.

To deselect fixtures in one command, type:



```
MA User name[Fixture]> Fixture 1 Thru 10 - 6 Thru 8
```

Fixtures 1 to 5 are selected, Fixtures 6 to 8 are deselected, and Fixtures 9 and 10 are selected.

To make the same selection of fixtures as shown in the example above using a different syntax, type:

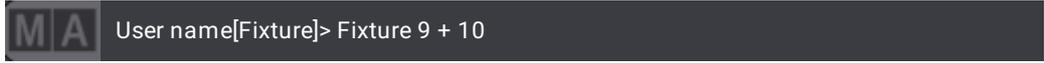


```
MA User name[Fixture]> Fixture 1 Thru 5 + 9 Thru 10
```

To select fixtures in two commands, type:



```
MA User name[Fixture]> Fixture 1 Thru 5
```



```
MA User name[Fixture]> Fixture 9 + 10
```

To select the fixtures 9 and 10 in the example above, **+** or **Thru** can be used.



Important:

Some keys are used to navigate the sub-selection of fixtures. This function is a part of the **MAtricks** function. The keys have an on-screen version called **Selection Bar**. These can also be used to select fixtures.



Recursive Selection of Fixtures

Some fixtures have multiple sub-fixtures. The following examples show how to select fixtures and their sub-fixtures in different orders and hierarchies using an additional dot (.).



Hint:

To learn more about sub-fixtures, see the **First Patch** topic in the Quick Start Guide.

To select fixture 301, type:

```
MA User name[Fixture]> Fixture 301
```

Only the main fixture is selected.

- For a fast selection of all sub-fixtures, a dot (.) can be added to the selection syntax of the main fixture.

To select fixture 301 and all its sub-fixtures, type:

```
MA User name[Fixture]> Fixture 301.
```

Name	FID	IDType	CID	Dimmer	PanTilt	Gobo	RGB	Color	Beam												
				Dim	P	T	G1	G1<>	Anim1	Animatic	R	G	B	W	C1	C2	CTO	ColorMix	Sh1	Iris	Effec
BMFL	101	Fixture		0	0.00	0.00	0.00	0.00	0	0.00	100	100	100	0	0.00	0.00	0.00	0	76	100	
APix	301	Fixture		0	0.00	0.00					100	100	100	0						20	
SubFixture 1	301.1	Fixture		100	0.00	0.00					100	100	100	0							
SubFixture 1	301.1.1	Fixture		100							100	100	100	0							
SubFixture 2	301.1.2	Fixture		100		0.00					100	100	100	0							
SubFixture 3	301.1.3	Fixture		100		0.00					100	100	100	0							
SubFixture 4	301.1.4	Fixture		100		0.00					100	100	100	0							
SubFixture 5	301.1.5	Fixture		100		0.00					100	100	100	0							
SubFixture 6	301.1.6	Fixture		100		0.00					100	100	100	0							
APix	302	Fixture		0	0.00	0.00					100	100	100	0						20	
SubFixture 1	302.1	Fixture		100	0.00	0.00					100	100	100	0							
SubFixture 1	302.1.1	Fixture		100							100	100	100	0							
SubFixture 2	302.1.2	Fixture		100		0.00					100	100	100	0							
SubFixture 3	302.1.3	Fixture		100		0.00					100	100	100	0							
SubFixture 4	302.1.4	Fixture		100		0.00					100	100	100	0							
SubFixture 5	302.1.5	Fixture		100		0.00					100	100	100	0							
SubFixture 6	302.1.6	Fixture		100		0.00					100	100	100	0							
APix	303	Fixture		0	0.00	0.00					100	100	100	0						20	
APix	304	Fixture		0	0.00	0.00					100	100	100	0						20	

Fixture 301 and the sub-fixtures are selected.



To select the main fixtures and all sub-fixtures of fixtures 301 thru 303, type:

```
MA User name[Fixture]> Fixture 301 Thru 303.
```



All AlienPix (fixtures and sub-fixtures) are selected.

- The dot selects the sub-fixtures downwards from the specified level. Therefore, for example, it is also possible to select only the pixels of an AlienPix.

To select all pixels of an AlienPix, type:

```
MA User name[Fixture]> Fixture 301.1. Thru
```



Name	FID	IDType	CID	Dimmer	PanTilt		Gobo				RGB				Color				Beam		
					P	T	G1	G1<	Anim1	Animatic	R	G	B	W	C1	C2	CTO	ColorMix	Sh1	Iris	Effec
BMFL	101	Fixture		0	0.00	0.00	0.00	0.00	0	0.00	100	100	100	0	0.00	0.00	0.00	0	76	100	
APix	301	Fixture		0	0.00	0.00					100	100	100	0							
SubFixture 1	301.1	Fixture		100	0.00	0.00					100	100	100	0					20		
SubFixture 1	301.1.1	Fixture		100							100	100	100	0							
SubFixture 2	301.1.2	Fixture		100		0.00					100	100	100	0							
SubFixture 3	301.1.3	Fixture		100		0.00					100	100	100	0							
SubFixture 4	301.1.4	Fixture		100		0.00					100	100	100	0							
SubFixture 5	301.1.5	Fixture		100		0.00					100	100	100	0							
SubFixture 6	301.1.6	Fixture		100		0.00					100	100	100	0							
APix	302	Fixture		0	0.00	0.00					100	100	100	0						20	
SubFixture 1	302.1	Fixture		100	0.00	0.00					100	100	100	0							
SubFixture 1	302.1.1	Fixture		100							100	100	100	0							
SubFixture 2	302.1.2	Fixture		100		0.00					100	100	100	0							
SubFixture 3	302.1.3	Fixture		100		0.00					100	100	100	0							
SubFixture 4	302.1.4	Fixture		100		0.00					100	100	100	0							
SubFixture 5	302.1.5	Fixture		100		0.00					100	100	100	0							
SubFixture 6	302.1.6	Fixture		100		0.00					100	100	100	0							
APix	303	Fixture		0	0.00	0.00					100	100	100	0							20
SubFixture 1	303.1	Fixture		100	0.00	0.00					100	100	100	0							

All pixels of an AlienPix are selected.

To select pixels of an AlienPix in particular, type:

```
MA User name[Fixture]> Fixture 301.1. Thru 4 + 6
```

Name	FID	IDType	CID	Dimmer	PanTilt		Gobo				RGB				Color				Beam		
					P	T	G1	G1<	Anim1	Animatic	R	G	B	W	C1	C2	CTO	ColorMix	Sh1	Iris	Effec
BMFL	101	Fixture		0	0.00	0.00	0.00	0.00	0	0.00	100	100	100	0	0.00	0.00	0.00	0	76	100	
APix	301	Fixture		0	0.00	0.00					100	100	100	0							
SubFixture 1	301.1	Fixture		100	0.00	0.00					100	100	100	0					20		
SubFixture 1	301.1.1	Fixture		100							100	100	100	0							
SubFixture 2	301.1.2	Fixture		100		0.00					100	100	100	0							
SubFixture 3	301.1.3	Fixture		100		0.00					100	100	100	0							
SubFixture 4	301.1.4	Fixture		100		0.00					100	100	100	0							
SubFixture 5	301.1.5	Fixture		100		0.00					100	100	100	0							
SubFixture 6	301.1.6	Fixture		100		0.00					100	100	100	0							
APix	302	Fixture		0	0.00	0.00					100	100	100	0							20
SubFixture 1	302.1	Fixture		100	0.00	0.00					100	100	100	0							
SubFixture 1	302.1.1	Fixture		100							100	100	100	0							
SubFixture 2	302.1.2	Fixture		100		0.00					100	100	100	0							
SubFixture 3	302.1.3	Fixture		100		0.00					100	100	100	0							
SubFixture 4	302.1.4	Fixture		100		0.00					100	100	100	0							
SubFixture 5	302.1.5	Fixture		100		0.00					100	100	100	0							
SubFixture 6	302.1.6	Fixture		100		0.00					100	100	100	0							
APix	303	Fixture		0	0.00	0.00					100	100	100	0							20
SubFixture 1	303.1	Fixture		100	0.00	0.00					100	100	100	0							

Particular selection of pixels.

General Fixture Selection

To select all fixtures and sub-fixtures, type:



```
MA User name[Fixture]> Fixture Thru.
```

To select all parents of all fixtures, type:

```
MA User name[Fixture]> Fixture Thru
```