FreeStyler Fixture Creator 4.9

Tutorial for American DJ Mega Bar LED

or similar LED Bars or multiple RGB element LED fixtures

The reason I have chosen this fixture is twofold,

- 1) A member on the FreeStyler Support Forum has made a request for the fixture.
- 2) I needed a fixture to be able to show how to create this type of fixture in this tutorial.

Multi RGB element fixtures (LED Bars) along with lasers seem to give the majority of people real problems when trying to create a fixture for them.

I am not going to talk about lasers in this tutorial only multi RGB element fixtures and specifically the American DJ Mega Bar LED.

The main reason I see for this because they can have a lot of channels, have lots of different operating mode with differing number of channels per mode and when in the higher channel modes a lot of RGB elements.

The current Fixture Creator only supports 1 RGB element so creating a fixture with multiple RGB elements would be a real problem.

Hopefully with this tutorial I can show you my way of creating these types of fixture. I am not saying this is the best or the easiest way but it is away that works and hopefully you will understand how it works.

Disclaimer: -

I do not physically have this fixture so it is untested, it may not cover every aspect of the fixtures capabilities but hopefully it will cover the most used. If it does not cover what you want then you can have a look at the fixtures in Fixture Creator and try and add that functionality yourself.

This tutorial does not show you how to create the fixture for use in 3D Magic Easy View, to do that you need to run the ScanLibrary program, it is not the same as Fixture Creator but the same method would need to be performed as shown for the Fixture Creator. In the future I will create a tutorial(s) for the ScanLibrary program as well. The American DJ Mega Bar LED specification and a link to download the manual can be found from the following link.

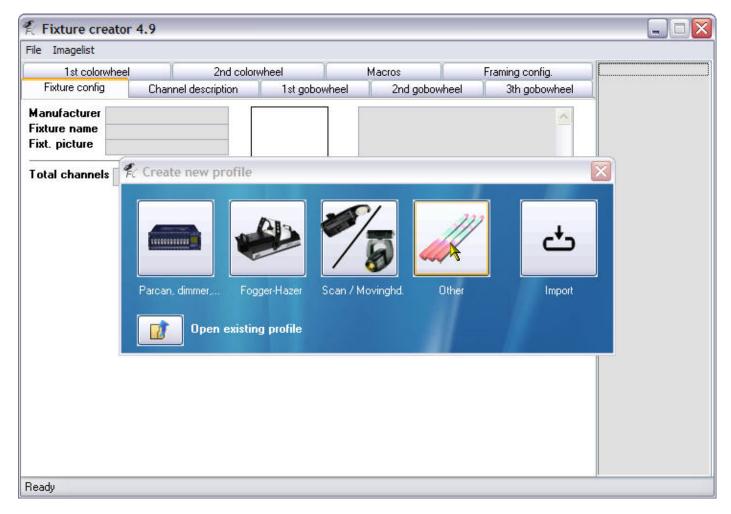
http://www.americandj.com/ProductDetails.aspx?Category=&ItemNumber=1730

I will include in the upload this tutorial, the finished fixture(s) and the manual so you can all follow along easily.

The American DJ Mega Bar LED has 6 DMX controlled modes of operation with channels of 2, 3, 4, 6, 7 and 11. I will start with the easiest of these modes and it is not the 2 channel mode but the 3 channel mode, all will be revealed.

3 channel American DJ Mega Bar LED

Start Fixture Creator up, and you should see the image as below.



Click the "Other" button as shown by the mouse pointer above.

You now are in the Fixture Creator program and on the main part of the program the "Fixture config" tab as can be seen in the image below.

annel description Ma	cros				
				~	
				<u>.</u>	
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	Iris channel Focus channel Frost channel				
	2nd. Frost channel Zoom channel Prism channel Prism rotation				
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So our first task is to fill in the **Manufacturer** and **Fixture name**.

I would always recommend putting in the proper manufacturer name such as "American DJ" rather than a shortened version such as "ADJ".

If you are creating "custom" fixtures you could always call the manufacturer a unique name that means something to you. As an example I would call the manufacturer "AndreCustom" or something similar.

So put American DJ in the **Manufacturer** input field.

Name, as we are going to create a few differing versions of this fixture we need to ensure that they are unique and meaningful.

For the fixture we are creating now I think we can call it Mega Bar LED 3ch so enter that in the **Fixture name** input field.

Click into the **Fixt. picture** input field and a list of pictures will appear on the right hand side scroll down and click on mega-bar-led_small.gif in that list and it will appear to the right of the Manufacturer and the Fixture name, also the Fixt. picture field will be filled in with the name.

I am also going to put something in the comment field.

See the next image to see this part completed.

Fixture creator 4.9						
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goboch. 2 n° gobos gobo rot. 2	Reset channel	Reset va	alue		magicgobo.gif MagnumHazer.gif ManiaEFX500.gif maniascx500.GIF	
goboch. 3 n° gobos	Shutter ch. Strobe ch.	open off	closed lo w		ManiaSCX600.gif martin cx4-2.gif	
Enable CMY / RGB	Intensity channel Lamp channel	med min on	high max off		Martin_Ego_X6.gi martin-812.gif Martin-robocolor-p ma-small.GIF MAX.GIF	
Enable Framing	Iris channel Focus channel Frost channel 2nd. Frost channel Zoom channel Prism channel Prism rotation				maxspot.gif MDP-1012.gif Mega_Flash_DM> mega-bar-led.gif mega-bar-led.gif megapanel.gif megapanel.gif megascan411.gif	100
Ready					Innuruga	

I have only used a part of the image for the Mega Bar LED as it makes it easier here and in FreeStyler.

As you can see I have filled in some basic comments in the comment field as well, this is optional but would recommend use it to put anything you want people to know about this fixture.

Lets carry on, as I mentioned we are doing what I call the simplest fixture for all the modes that the Mega Bar LED has and this is the 3 channel fixture.

Yep you guessed it we need to enter 3 in the **Total channels** input box as can be seen in the image below.

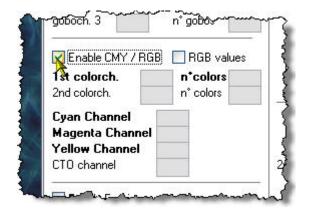
File Imagelist				
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Manufacturer	American DJ	[
Fixture name	Mega Bar LED 3ch	10 10 10 10 10 10 10 10 10 10 10 10 10 1		
Fixt. picture	mega-bar-led_small.gif			
Total channel	s 3	L		
goboch.1	n* gobos	Pan 8bi		
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OK so now our fixture knows how many channels, so how do we tell it what channels control what?

As we know this is and RGB fixture and RGB stands for Red, Green and Blue. They are colours. So let us find the colour section of the Fixture Creator.

1st colorch. n*colors 2nd colorch. n* colors	1.1

Here it is, notice that it has a tick box to **Enable CMY / RGB** well our fixture is RGB so we better enable it by ticking that box.

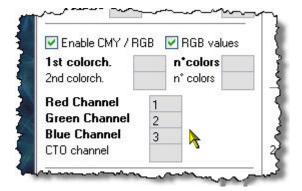


Wow, ticking that box has shown some hidden fields. Look to the right of the tick box we have just ticked and you can see another tick box and it is labelled **RGB values** lets tick that and see what happens.

🗹 Enable CMY / RGB	8 🛛 🙀 🛛 🖓 🖓 🖓
1st colorch.	a colors
2nd colorch.	n° colors
Red Channel	
Green Channel	
Blue Channel	
CTO channel	

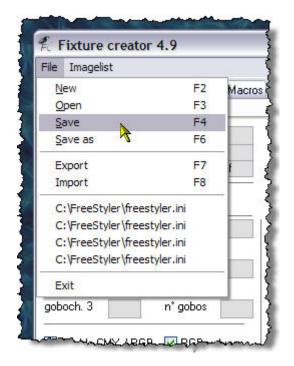
As you can see the fields have now changed **Red Channel**, **Green Channel** and **Blue Channel** which is what our fixture is.

As this fixture is 3 channel and the manual tells us that the red is on 1 and green is on 2 on blue is on 3 we need to put those numbers in those fields. See image below for how it looks completed.



That is it we have entered all the data we need for this fixture.

No we need to save it and export it. I always export any fixture I create and keep them separate from FreeStyler to ensure that I always can re-install them if I ever need to do a complete/clean re-install of FreeStyler.



Go to the File menu and select Save and you will get the following save dialogue.

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Blue Char CTO chann		Save as type:	Fixture data (*	fxt)	~	Cancel	a-bar-led.gif a-bar-led_small	
Enable f	My Network	F	Prism rotation			Imes	acolor211.gif apanel.gif ascan411.gif	-
Ready						mh1	l.git	~

The default name of **Mega Bar LED 3ch.fxt** will be the file name, taken from the **Fixture name** we entered at the beginning.

I always add the manufacturers name to the front of this as can be seen in the above image. The reason I do this is to make it easier to identify when I am using Windows Explorer in the FreeStyler/Fixtures folder. You do not have to do this. Click the **Save** button and that is done.

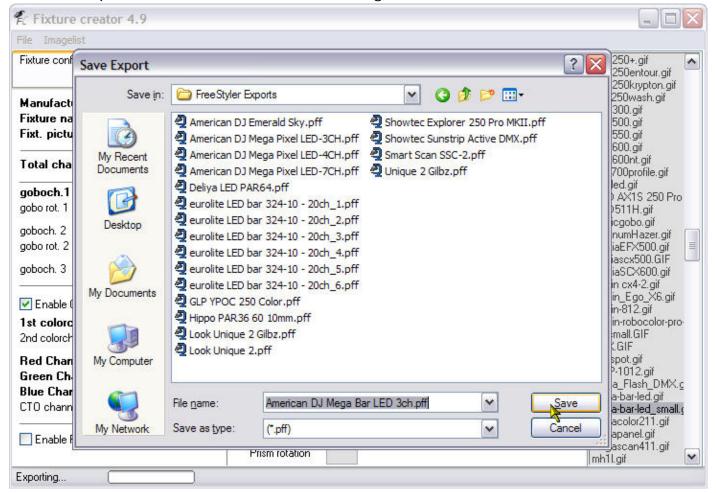
Now to export our fixture.

Exported fixtures are the ones you would upload to the FreeStyler Support Forum or transfer onto another computer for FreeStyler to use. It contains all the information needed in the one file, images, gobos, colours etc.

Fixture creator 4.9 File Imagelist New F2 Macre Open F3 Save F4 Save as F6 Export F7 F8 Import C:\FreeStyler\freestyler.ini C: \FreeStyler \freestyler.ini C:\FreeStyler\freestyler.ini C:\FreeStyler\freestyler.ini Exit goboch. 3 n° gobos

Go to the File menu and select Export as shown in the image below.

You will be presented with another save dialogue as shown below.



The filename has the same filename as what was entered for the normal save, so you can just press the **Save** button and that is our fixture exported and you can now exit from the Fixture Creator program and start FreeStyler and add the number of these 3 channel fixtures you want to control.

4 Channel American DJ Mega Bar LED

This fixture is created exactly the same way as the 3 channel fixture but has a overall dimmer attached to it.

Let us get started.

Open Fixture Creator and fill in all the information as per the 3 channel fixture described above.

Obviously the **Fixture name** will be Mega Bar LED 4ch and any comments need to be changed as well and the **Total channels** will have to be changed to 4.

It should look like this.

🐔 Fixture creator 4.9					_	
File Imagelist						
Fixture config. Channel descri	ption Macros				-+fast.bmp +-fast.bmp	^
Manufacturer American DJ Fixture name Mega Bar LED Fixt. picture mega-bar-led		American DJ - Created by On Version 0.1b Untested			+fast.bmp -+med.bmp +-med.bmp +med.bmp -+slow.bmp +-slow.bmp +slow.bmp	
goboch.1 n* go gobo rot. 1	bos Pan 8bit : Tilt 8bit :	Pan 16bit Tilt 16bit	0	Pan Range Tilt Range	0.5mp 00001.5mp 00002.5mp 00003.5mp 00004.5mp	
goboch. 2 n° gob gobo rot. 2	Reset channel	Reset va	alue		00005.bmp 00006.bmp	
goboch. 3 n° gob	oos Shutter ch. Strobe ch.	open off	closed	0	00007.bmp 00008.Bmp 00009.bmp	
1st colorch. n*c	B values Intensity channel olors Lamp channel	med min on	high max off		00010.bmp 00011.bmp 00012.bmp 1.10bmp - 1.20.bmp	
Red Channel1Green Channel2Blue Channel3CTO channel	Iris channel Focus channel Frost channel 2nd. Frost channel	0			1.30.bmp 1.50.bmp 1.70.bmp 1.70.bmp 1.80.bmp 1.99.bmp 1.BMP	
Enable Framing	Zoom channel Prism channel Prism rotation	0			10.10bmp 10.20bmp 10.30bmp	~
Ready						

Now all we need to do is add the Dimmer channel to this information.

In FreeStyler it is called the **Intensity channel** and can be found near enough slap bang in the middle of the Fixture Creator on the "Fixture config." tab.

Our dimmer is on channel 4 so we would enter the number 4 in the input box to the right of the **Intensity channel** text and the manual states that the dimmer has values of 0 to 255 they need to be entered in the **min** and **max** fields respectively.

It should look like the following image.

Shutter ch.		open		closed	0	
Strobe ch.		off		low		
	-	med		high		
Intensity channel	4	min	0	max	255	N
Lamp channel	180	on	000	off		R

That is it done.

Now save the fixture as instructed before.

Caution if you opened up the 3 channel version of this fixture to work on then do a Save As and adjust the filename accordingly otherwise you will overwrite the existing 3 channel fixture.

Export it as instructed before.

You can close the Fixture Creator program and start FreeStyler and add you fixtures.

11 Channel American DJ Mega Bar LED

We are now going to create the 11 channel version of the American DJ Mega Bar LED, so how are we going to do this as the Fixture Creator only allows 1 RGB element and the American DJ Mega Bar LED has 3 of these RGB elements.

Well the simple answer is you cannot do it but what would be the point of this tutorial if you cannot do it.

What you have to do is to not think of it as one fixture but in this case as 4 fixtures, 3 fixtures for the RGB elements and 1 fixture for the control part (strobe and dimmer). Now strangely enough did we not create a 3 channel RGB fixture in the first part of this tutorial? Yes we did, so now all we have to do is create the control part of this fixture the bit that controls the strobe and the dimmer. It should be easy enough.

Start the Fixture Creator program and click the "Other" button as you did in the previous tutorials.

Fixture creator 4.9								
File Imagelist								
Fixture config. Channel description Mac	ros							Mac250+.gif 🔥 🔥
Manufacturer American DJ Fixture name Mega Bar LED 11ch Fixt. picture mega-bar-led_small.gif	1943207 1947	1	use with patched fixture.	3xAme before	ega Bar LE rican DJ M this one fo e for FreeS	ega Bar (r every re	3ch 🚺	Mac250krypton.gif mac250wash.gif Mac300.gif Mac500.gif Mac550.gif Mac550.gif
Total channels 2 goboch.1 n* gobos gobo rot. 1	Pan 8bit : Tilt 8bit :		Pan Tilt 1	16bit 6bit		Pan Ra Tilt Rar	inge	mac700profile.gif macled.gif MAD AX1S 250 Pro MAD511H.gif
goboch. 2 n° gobos gobo rot. 2	Reset channel		Re	set val				magicgobo.gif MagnumHazer.gif ManiaEFX500.gif ≡
goboch. 3 n° gobos	Shutter ch. Strobe ch.	1	open off	0	closed lo w	1		maniascx500.GIF ManiaSCX600.gif martin cx4-2.gif Martin_Ego_X6.gif
Enable CMY / RGB 1st colorch. n*colors 2nd colorch. n* colors	Intensity channel Lamp channel	2	med min on	128 0	high max off	255 255	7	martin-812.gif Martin-robocolor-pro- ma-small.GIF MAX.GIF
Enable Framing	Iris channel Focus channel Frost channel 2nd. Frost channel Zoom channel Prism channel Prism rotation							maxspot.gif MDP-1012.gif Mega_Flash_DMX.g mega-bar-led.gif mega-bar-led_small.g megacolor211.gif megascan411.gif mh11.gif
Ready								

I have filled out all the information for this part of the fixture as can be seen in the image above. Remember this part of the fixture is only for controlling the strobe and dimmer. You might be asking why I have set the channel values of the strobe and dimmer (intensity) to 1 and 2 respectively as this is meant to be an 11 channel fixture. Well this part of the fixture only has 2 channels so it has to be set at 1 and 2. The correct addressing of the channels comes when we patch them into FreeStyler.

Enter the data as shown above and Save and Export the fixture as before.

Close the Fixture Creator Program and start FreeStyler.

Go to Setup and select Add/Remove fixtures.

xtures		Q	Address:	Name:	Option
AME	RICAN DJ				
	ACCUSCAN 250				
	ACCUSPOT 250 II				
	COLOR FUSION				
	DYNASTY SCAN D	омх Т			
	MEGA FLASH DMX		<u> </u>		
	ADJ PAR 56		~~	1	
	PEARL WH	5	Add fixture		
	DJ SCAN 250HP	1			
	MEGA BAR LED 11	сн			
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ename · A	American DJ Mega Bar L	ED 3ch fxt			Clos

Open the American DJ folder in the panel to the left and click the MEGA BAR LED 3CH fixture and then click the **Add fixture** button as shown.

Fixtures		Q	Address:	Name:	Options
	RICAN DJ	~			<u> </u>
	ACCUSCAN 250 ACCUSPOT 250 II COLOR FUSION DYNASTY SCAN MEGA FLASH DM ADJ PAR 50 PEARL WH DJ SCAN 250HP MEGA BAR LED 1 MEGA BAR LED 3 MEGA BAR LED 4	Start at row n°of fixture DMX Univer DMX startad	s to add 3		
channel Created by Version 0.1 Untested Last Modifie Created : 10	UII J - Mega Bar LED 3 Onge for FreeStyler b d : 10/01/2010 12:54:16 /01/2010 12:54:16 /merican DJ Mega Bar I			enabled.	react to sound whe

Now remember for 11 channel mode of the American DJ Mega Bar LED fixture we have 3 x RGB elements per 1 real fixture so we set the number of fixtures to add to 3 and then press the **Add** button.

ixtures		9	Address:	Name:	Options
	ICAN DJ		1:1-3	Mega Bar LED 3ch-1	
- Comerty			1:4-6	Mega Bar LED 3ch-2	
	ACCUSCAN 250		1:7-9	Mega Bar LED 3ch-3	
	ACCUSPOT 250 II	12.00			
	COLOR FUSION				
	DYNASTY SCAN DMX				
	MEGA FLASH DMX				
	ADJ PAR 58			a.	
	PEARL WH				
	DJ SCAN 250HP	1			
	MEGA BAR LED 11CH		() · · · · · · · · · · · · · · · · · ·		
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control. use with 3xA loch patched every real fin Created by 0 /ersion 0.1b Last Modified Created : 10/	Onge for FreeStyler			StartAddress : Let fixture rei enabled. Ignore Master	

We now need to patch the control channels for this 1 real fixture so select the MEGA BAR LED 11CH fixture in the panel on the left and press the **Add fixture** button as before.

	Q	Address:	Name:		Options
ICAN D.I		1:1-3	Mega Bar LEC) 3ch-1	•
		1:4-6	Mega Bar LED) 3ch-2	
		1:7-9	Mega Bar LED) 3ch-3	
			1000		
DYNASTY SCAN					
MEGA FLASH DM	Start at row:				
ADJ PAR 56			a second second		
PEARL WH	n°of fixtures to	add 1			
DJ SCAN 250HP	DMX Universe		22 1		
MEGA BAR LED	DWV startedde				
MEGA BAR LED 3	DMA startador	ess 1			
MEGA BAR LED 4					
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01/2010 13:50:19					
	ADJ PAR 56 PEARL WH DJ SCAN 250HP MEGA BAR LED 1 MEGA BAR LED 3 MEGA BAR LED 4 III Mega Bar LED 110 merican DJ Mega Bar before this one for ture. Onge for Free Styler Untested : 10/01/2010 13:50:19	ACCUSCAN 250 ACCUSPOT 250 II COLOR FUSION DYNASTY SCAN MEGA FLASH DM ADJ PAR 56 PEARL WH DJ SCAN 250HP MEGA BAR LED MEGA BAR LED MEGA BAR LED MEGA BAR LED 10 W Auto addre Mega Bar LED 11c W Auto. Creat merican DJ Mega Bar before this one for ture. Dage for Free Styler Untested 10/01/2010 13:50:19	ICAN DJ ACCUSCAN 250 ACCUSPOT 250 II COLOR FUSION DYNASTY SCAN MEGA FLASH DM ADJ PAR 56 PEARL WH DJ SCAN 250HP MEGA BAR LED 1 MEGA BAR LED 1 MEGA BAR LED 2 MEGA BAR LED 3 MEGA BAR LED 3 MEGA BAR LED 4 MEGA BAR LED 5 MEGA B	ICAN DJ 1:1-3 Mega Bar LED ACCUSCAN 250 1:4-6 Mega Bar LED ACCUSPOT 250 II 1:7-9 Mega Bar LED COLOR FUSION DYNASTY SCAN DYNASTY SCAN Start at row: ADJ PAR 56 PEARL WH DJ SCAN 250HP DMX Universe MEGA BAR LED DMX Universe MEGA BAR LED DMX startaddress MEGA BAR LED DMX startaddress MEGA BAR LED MAUto address MEGA BAR LED 110 Auto. Create Group Mega Bar LED 110 Auto. Create Group Imerican DJ Mega Bar Imerican DJ Mega Bar Before this one for ture. Imerican DJ Mega Bar Imerican DJ Mega Bar Imerican DJ Mega Bar	ICAN DJ ACCUSCAN 250 ACCUSPOT 250 II COLOR FUSION DYNASTY SCAN MEGA FLASH DM ADJ PAR 56 PEARL WH DJ SCAN 250HP MEGA BAR LED MEGA BAR LE

As we only need 1 control fixture per real fixture we change the **number of fixtures to add** to 1 and then press the **Add** button.

ixtures		<u>a</u>	Address:	Name:	Options
	RICAN DJ	~	1:1-3	Mega Bar LED 3ch-1	
-			1:4-8	Mega Bar LED 3ch-2	
·······	ACCUSCAN 250		1:7-9	Mega Bar LED 3ch-3	
	ACCUSPOT 250 II		1:1-2	Mega Bar LED 11ch-4	
	COLOR FUSION		1:1-3	Mega Bar LED 3ch-5	
	DYNASTY SCAN DMX	Í .	1:4-8	Mega Bar LED 3ch-8	
	MEGA FLASH DMX		1:7-9	Mega Bar LED 3ch-7	
	ADJ PAR 56		1:1-2	Mega Bar LED 11ch-8	
		(1:1-3	Mega Bar LED 3ch-9	
	PEARL WH	4	1:4-6	Mega Bar LED 3ch-10	
	DJ SCAN 250HP	्य	1:7-9	Mega Bar LED 3ch-11	
	MEGA BAR LED 11CH		1:1-2	Mega Bar LED 11ch-12	
	MEGA BAR LED 3CH		1:1-3	Mega Bar LED 3ch-13	
	MEGA BAR LED 4CH		1:4-8	Mega Bar LED 3ch-14	
	MEGA BAR LED 40H	~	1:7-9	Mega Bar LED 3ch-15	100
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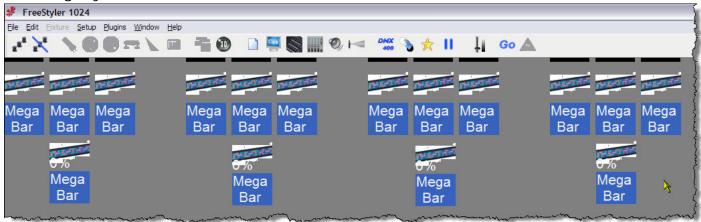
As you can see from the image above I have gone ahead and patched fixtures to allow for 4 x real fixtures. Notice the pattern of 3xRGB fixture and then 1xControl fixture.

Close the Add/Remove fixture panel by clicking the **Close** button.

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cnol	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega	Mega
Bar	Bar	Bar	Bar				Bar						Bar		Bar

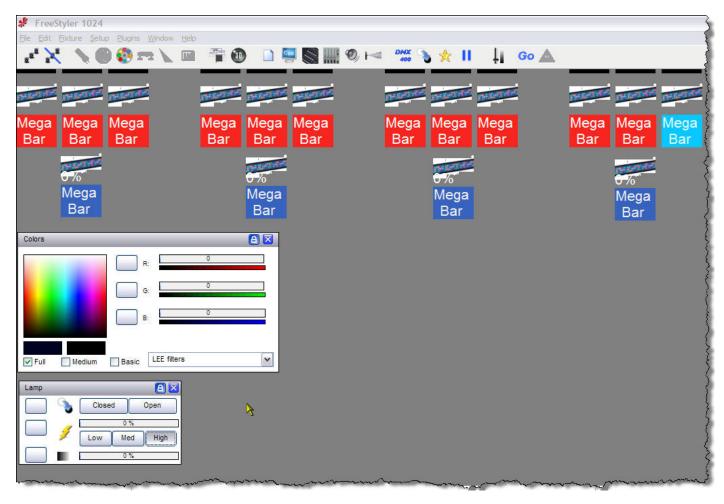
Back on the FreeStyler main layout you should have something like this if you have followed along.

I would recommend going to **Edit** and **Move fixtures** and arrange them like the following layout.



This now is laid out as the four fixtures with the control channel below the RGB elements.

Now you have full control of you Mega Bar LEDs in 11 channel mode. As said right at the top it may not be the easiest way or the best way but it does work.



2 Channel American DJ Mega Bar LED

OK, the 2 channel version of this fixture could be done in two ways: -

- Macros for channel 1 (Macros/Programs) and using one of the functions below the "Lamp channel" such as "Iris" to give you a slider control for channel 2 (Speed/Sound Sensitivity) when you pop out the control panels.
- 2. Colour wheel for channel 1 and using one of the functions below the "Lamp channel" such as "Iris" to give you a slider control for channel 2 (Speed/Sound Sensitivity) when you pop out the control panels.

Both are as good as each other, but I am going to using option 2 just to show that you can use "labelled" things for other things other than what it says. Along these lines it is something I have mentioned that we would like to be able to change these "fixed" labels and also the control panel being used should display its new label so you definitely identify the control. For example in the above we are going to use the "Iris" channel to get the slider, now the panel has a picture of an Iris on it panel and even if I change the channel description to "SpeedSound" it does not appear on the panel. So you will have to remember what it is for. Anyway I digress, let us get on and create this 2 channel fixture.

Open Fixture Creator and click the "Other" button as before in this tutorial and fill in the Manufacturer, Fixture name, get the picture and add comments as instructed before. Put 2 in the **Total Channels** field. See image below for this part completed.

File Imagelist				
Fixture config.	Channel description Macros		++fast.bmp +-fast.bmp +fast.bmp	6
Manufacturer Fixture name Fixt. picture	American DJ Mega Bar LED 2ch mega-bar-led_small.gif	American DJ Mega Bar LED 2ch Created by Onge for FreeStyler v 0.1b - untested.	-+med.bmp +-med.bmp +-med.bmp -+slow.bmp +-slow.bmp +-slow.bmp	

As I said we are going to use the colour wheel to be the control method for the Macros/Programs on channel 1. Count up how many Macros/Programs there for this channel, look for things like "rainbow", "speed", "rotation" and other things where you might want to add more than 1 control per each of these, for example "rainbow" might have values from 128 to 255 and it is the speed of the "rainbow" from slow to fast, so you might want to make that 3 control for that i.e. 1 for slow, 1 for medium and 1 for fast. For this fixture there is nothing like that so we can just count up the number of Macros/Programs in the list. I make it 18.

Let us put that info into the right places on the Fixture Creator "Fixture config." tab.

			Strobe ch.	off
Enable CMY	/ RGB			med
1st colorch.	1	n*colors 18	Intensity channel	min
2nd colorch.	1	n° colors	Lamp channel	on
			Iris channel 2	4
			Focus channel	<u>^</u>

As you can see I have put channel 1 in the **1st colorch.** field and the number or Macros/Programs 18 in the **n°colors**. I have also put channel 2 in the **Iris** field.

Right we now need to enter the values for the Macros/Programs into the colour wheel part of Fixture Creator. Click the **1st colorwheel** tab and you get the following screen.

e Imagelist Options		
xture config. Channel descri	ption 1st colorwheel Macros	250iBlue.bmp 250iGreen.bmp 250il.ieb/bus.bms
DMX Value	Picture	250iLightBlue.bmp 250iMagenta.bmp 250iPad.bmp 250iYellow.bmp 250iYellow.bmp 250iYellow.Green.bm 2color_blue-red.bmp 2color_congo-pink.t 2color_cyan-green.t 2color_green-orange 2color_green-orange 2color_orange-cong 2color_orange-cong 2color_puple-green 2color_puple-green 2color_red-yellow.bm 2color_vellow-mager 4Color-1.BMP 4Color-2.BMP 518 Multi1.bmp 518 Multi2.bmp 812-black.bmp 812-black.bmp 812-gren1.bmp 812-gren3.bmp 812-orange1.bmp 812-orange2.bmp 812-orange2.bmp 812-orange2.bmp

Now this screen has the correct number rows for the number of Macros/Programs that we told it we had when we filled in the **n**°**colors** on the "Fixture config." tab.

Now we have to enter all the values from channel 1 of the manual for the 2 channel fixture, phew that is going to take a bit of time. Luckily in a recent version there was added an **Auto generate values** option which can fill out this information for us.

File Imagelist	Options		
Fixture config.	Auto genera	ite values 🔥 wheel	Macros
	Value	Picture	-

Click **Options** and then **Auto generate values** and you should see the following dialogue box appear.

Generate DMX valu	ies 🔰 🔀
First DMX value	0
Last DMX value	255
Increments by	
Cancel	Generate

The aim is to try and get each value generated to be in the middle of each of the values allowed for each Macro/Program. Now this is the first time I have actually used this dialogue so I had a little play around before I settled on the values I used.

The values I used are shown in the dialogue below.

Generate DMX valu	es 🛛 🔀
First DMX value	7
Last DMX value	255
Increments by	14
Cancel	Generate 📐

Enter the numbers shown and press the "Generate" button and as if by magic, Raph's clever programming, the DMX values have all been filled in.

Now you have seen what is does have a play with the numbers so you get an idea of what it is doing. When you have had enough excitement put the number I used back in.

e Imagelist Options		
ixture config. Channel des	cription 1st colorwheel Macros	250iBlue.bmp 250iGreen.bmp 250iLightBlue.bmp
DMX Value	Picture A	250iMagenta.bmp 250iOrange.bmp 250iRed.bmp
7	A	250Yellow.bmp 250YellowGreen.bm 2cirkels.gif
21		2color_blue-red.bmp 2color_congo-pink.b
35		2color_cyan-green.± 2color_green-orang∉ 2color_magenta-cya
49		2color_orange-cong 2color_pink-whitet 2color_purple-green.
63		2color_red-yellow.bn 2color_white-blueb
77		2color_yellow-mager 4Color-1.BMP 4Color-2.BMP
91		518 Multi1.bmp 518 Multi2.bmp 812-black.bmp
105		812-blue.bmp 812-gren1.bmp
119		812-gren2.bmp 812-gren3.bmp 812-orange1.bmp
133	▲	812-orange2.bmp 812-red1.bmp 812-red2.bmp

This is what the top half of the list looks like after it has been filled in.

I am a bit of a fuss pot over certain things and I like my "off"s to be at zero, assuming off can be zero, so I would change the first row 7 to a 0.

Next to the numbers are a couple of spaces, these contain an icon and the icon name respectively. So now we have to do is find a relevant icon from the list to right for each of these rows. The first one is easy. Click on the top line (lowest DMX Value) and then scroll down the list on the right until you find **off.bmp** and click it. Notice how the picture and the name appear in the columns next to the DMX Value. Repeat this process choosing a different icon for each row.

ile Imagelist Op	ptions			
Fixture config. Ch	nannel descript	ion 1st colorwheel Ma	ICTOS	cx43kleur1.bmp cx43kleur10.bmp cx43kleur2.bmp
DMX Val	lue	Picture	_	cx43kleur3.bmp cx43kleur4.bmp cx43kleur6.bmp
0	OFF	off.bmp		cx43kleur8.bmp cx43kleur9.bmp cx43tussen1.bmp
21		Red.bmp		cx43tussen10.bmp cx43tussen2.bmp
35		Yellow.bmp		cx43tussen3.bmp cx43tussen4.bmp cx43tussen6.bmp
49		Green 203.bmp		cx43tussen8.bmp cx43tussen9.bmp cx44kleur1.bmp
63		Cyan 401.bmp		cx44kleur2.bmp cx44kleur5.bmp
77		Blue.bmp	X	cx44kleur6.bmp cx44tussen1.bmp cx44tussen2.bmp
91		Purple.bmp		cx44tussen6.bmp cx4blueandpink.BMI cx4blue-red.BMP
105	Macro	Whitebmp		cx4color_red-yellow. Cyan 104.bmp
119	9 Macro	macro9.bmp		Cyan 201.Bmp Cyan 401.bmp Cyan.bmp
133	10	macro10.bmp	_	CYAN_MAXSPOT25 Cyan2.bmp CyanBlue.bmp

DMX Value		Picture	
119	Macro 9	macro9.bmp	
133	Macro 10	macro10.bmp	
147	Macro 11	macro11.bmp	
161	Macro 12	macro12.bmp	
175	Macro 13	macro13.bmp	
189	Macro 14	macro14.bmp	
203	Macro 15	macro15.bmp	
217	Macro 16	macro16.bmp	
231	Macro 17	macro17.bmp	
245	Ş	sound.bmp	-

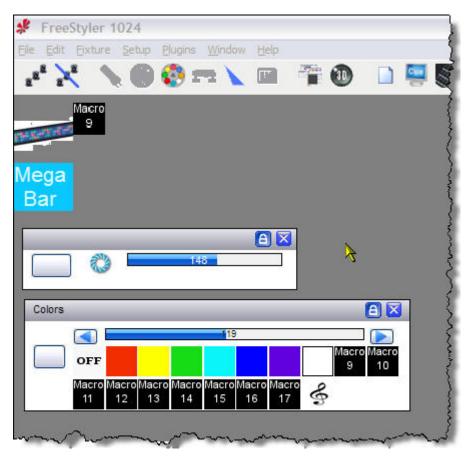
As you can see from the two images above I have added all the icons for each of the values. I have used a generic "Macro" icon for the ones I could not find a relevant

icon for, too lazy really. Please go ahead and change them for more suitable ones or even create your own bitmaps to represent them.

Right that is the fixture done.

We now save the fixture and export it, please see the earlier parts of the tutorial for information on how to do this.

Exit Fixture Creator and you can now start FreeStyler and patch your fixture into it and start using it.



Here you can see the "Iris" panel and the "Colours" panel open for the 2 channel American DJ Mega Bar LED.

Tip: - If you want to use "Blackout" on this fixture then the best way is to do the following



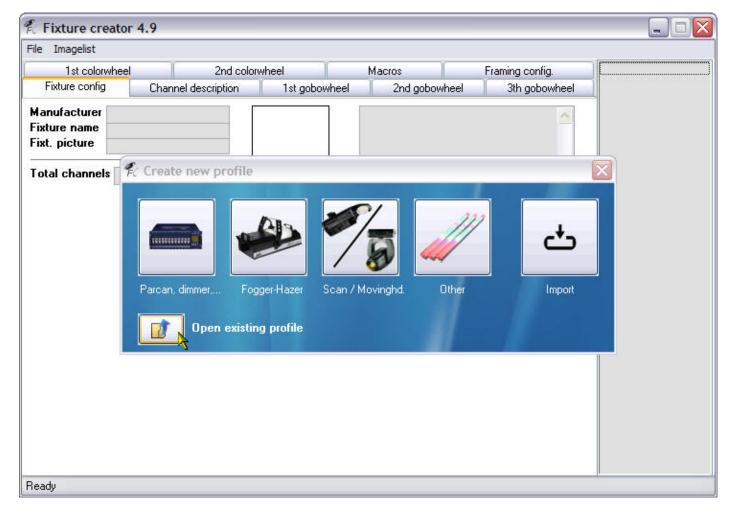
Here I have put channel 1 as the Shutter channel and have just entered the value for open as 1, it will still be off, and closed as 0, which is off. This will enable you to press the "Blackout" button and the lamp will turn off.

This has been done with the fixture I have uploaded.

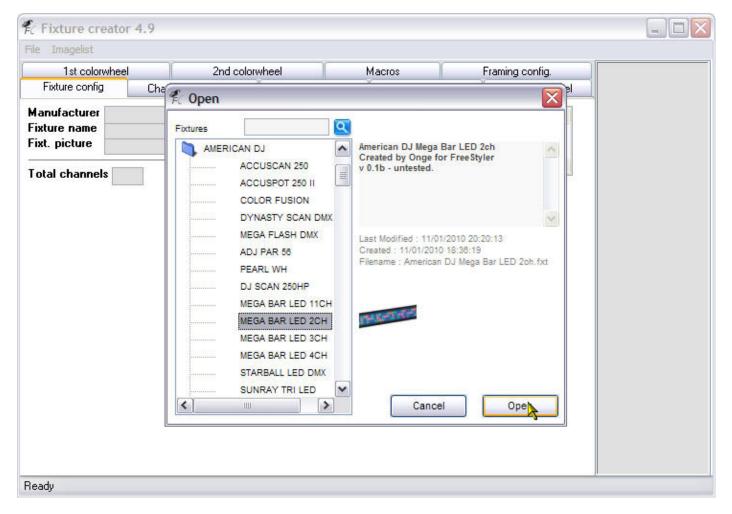
7 Channel American DJ Mega Bar LED

We are now going to do the 7 Channel version of the American DJ Mega Bar LED.

Start Fixture Creator.



Select "Open existing profile"



In the "Open" dialogue, find and double click the "American DJ" folder. Select the "MEGA BAR LED 2CH" fixture and then click the "Open" button.

The reason I am starting with this fixture is because it has the same Macros/Program as what we need just on a different channel.

Fixture creator 4.9						_ 🗆 🛛
File Imagelist						
Fixture config. Channel description 1st of	colorwheel Macros					+-fast.bmp
Manufacturer American DJ Fixture name Mega Bar LED 2ch Fixt. picture mega-bar-led_small.gif	KNA KATI M	0	American DJ I Created by Or v 0.1b - untes	nge for Frees	Styler	-+med.bmp +-med.bmp +med.bmp -+slow.bmp +-slow.bmp
Total channels 2	515- 1 25	_			<u>×</u>	+slow.bmp 0.bmp
goboch.1 n° gobos gobo rot. 1	Pan 8bit : Tilt 8bit :		Pan 16bit Tilt 16bit	0 0	Pan Range	00001.bmp 00002.bmp 00003.bmp 00004.bmp
goboch. 2 n° gobos gobo rot. 2	Reset channel		Reset v	alue]	00005.bmp 00006.bmp
goboch. 3 n° gobos	Shutter ch. Strobe ch.	1	open 1 off	closed	0	00007.bmp 00008.Bmp 00009.bmp
Enable CMY / RGB 1st colorch. 2nd colorch. 1 n ⁺ colors 18 n ⁺ colors	Intensity channel Lamp channel		med min on	high max off		00010.bmp 00011.bmp 00012.bmp 1.10bmp - 1.20.bmp
	Iris channel Focus channel Frost channel	2				1.30.bmp 1.50.bmp 1.70.bmp
Enable Framing	2nd. Frost channel Zoom channel Prism channel	0			7	1.80bmp 1.99bmp 1.BMP 10.10bmp
Enable Framing	Prism rotation	0	-			10.20bmp 10.30bmp
Ready			-			p county (CD)

So this is what you will get when we have opened up the 2 channel fixture.

All we have to do is change some of the information and create some new information.

Information that needs to be changed is :-Fixture name Total channels Comment Shutter ch. Iris (Speed/Sound Sensitivity)

Information that needs to be added:-Strobe Intensity (Dimmer) RGB

See next image for the completed information.

File Imagelist								
Fixture config. Channel description 1:	st colorwheel Macros						-+fast.bmp +-fast.bmp	
ManufacturerAmerican DJFixture nameMega Bar LED 7chFixt. picturemega-bar-led_small.gif	Not King to a set	C		y Ong	ega Bar LE e for FreeS d.		+fast.bmp -+med.bmp +-med.bmp +med.bmp -+slow.bmp +-slow.bmp	
Total channels 7	No. 1994						+slow.bmp 0.bmp	
goboch.1 n* gobos gobo rot. 1	Pan 8bit : Tilt 8bit :		Pan Tilt 1	16bit 6bit	0 0	Pan Range Tilt Range	00003.bmp	
goboch. 2 n° gobos gobo rot. 2	Reset channel		Re	set val	ue		00004.bmp 00005.bmp 00006.bmp	
goboch. 3 n° gobos	Shutter ch. Strobe ch.	7 6	open off	1 0	closed low	and a second	00007.bmp 00008.Bmp 00009.bmp	
🗹 Enable CMY / RGB 🛛 🗹 RGB values	Intensity channel	7	med	175	high max	255	00010.bmp 00011.bmp	
1st colorch. 4 n*colors 18 2nd colorch. n* colors 18	Lamp channel	1	on	0	off	255	00012.bmp 1.10bmp 1.20.bmp	
Red Channel 1	Iris channel	5					1.30.bmp 1.50bmp	
Green Channel 2 Blue Channel 3	Focus channel Frost channel						1.70bmp	
CTO channel	2nd. Frost channel	0					1.80bmp 1.99bmp	
	- Zoom channel						1.BMP 10.10bmp	
Enable Framing	Prism channel Prism rotation	0					10.20bmp 10.30bmp	

This is the "Fixture config." tab completed for the 7 channel fixture. Please ensure you have changed/added everything that is shown above.

e Ima	gelist				
xture co	onfig. Channel description	1st c	olorwheel	Macros	-+fast.bmp
					+-fast.bmp
	Annexed services the				+fast.bmp -+med.bmp
hannel	Description Lo	ocate ar	nd default v	alues	+-med.bmp
1	Red	1	0		+med.bmp
2	Green	0	0		-+slow.bmp
3	Blue	0	0		+-slow.bmp
	Programs	0	0	7	+slow.bmp
5	SpeedSound	0	0	7	0.bmp
6		0	0		00001.bmp 00002.bmp
4 5 6 7	Strobe	and the second second	the second se		00002.bmp
e.	DImmer	255	0		00004.bmp
					00005.bmp
					00006.bmp
					00007.bmp
					00008.Bmp
					00009.bmp
					00010.bmp
					00011.bmp
					00012.bmp
					1.10bmp
					1.20.bmp
					1.30.bmp
					1.50bmp
					1.70bmp
					1.80bmp
					1.99bmp 1.BMP
					10.10.bmp
					10.10.bmp
					10.20bmp

Click on the "Channel description" tab and make changes so it is the same as the image above.

ile Imag	elist Option	ns			
ixture cor	nfig. Chann	el descript	on 1st colorwheel M	lacros	250iBlue.bmp 250iGreen.bmp 250iLightBlue.bmp
	DMX Value		Picture	<u> </u>	250iMagenta.bmp 250iOrange.bmp 250iRed.bmp
	0 OF 21	0 OFF off.bmp	off.bmp		250Yellow.bmp 250YellowGreen.br 2cirkels.gif
			Red.bmp		2color_blue-red.bmp 2color_congo-pink.t 2color_cyan-green.t
	35		Yellow.bmp		2color_green-orange 2color_magenta-cya
	49		Green 203.bmp		2color_orange-cong 2color_pink-whitet 2color_purple-green
	63		Cyan 401.bmp	X	2color_red-yellow.br 2color_white-bluet
	77		Blue.bmp		2color_yellow-mager 4Color-1.BMP 4Color-2.BMP
	91		Purple.bmp		518 Multi1.bmp 518 Multi2.bmp 812-black.bmp
	105	Macro	Whitebmp		812-blue.bmp 812-gren1.bmp
	119	9 Macro	macro9.bmp		812-gren2.bmp 812-gren3.bmp 812-orange1.bmp
	133	10	macro10.bmp		812-orange2.bmp 812-red1.bmp 812-red2.bmp

We need to do nothing on the "1st colorwheel" tab (Macros/Programs)as it has not changed from when we created it for the 2 channel fixture all we did was change the channel it is now on and we did that on the "Fixture config." tab.

No need to look at the "Macros" tab as no macros have been defined.

Fixture creator 4.9								×
File Imagelist								
New F2	rwheel Macros						-+fast.bmp	~
Open F3							+-fast.bmp +fast.bmp	
Save F4		1020			1000000	-	-+med.bmp	
Save as F6					ega Bar LE 1e for FreeS		+-med.bmp +med.bmp	
Export F7	Sec. Property and and		0.1b - u			-	-+slow.bmp	
Import F8						<u>.</u>	+-slow.bmp +slow.bmp	
American DJ Mega Bar LED 2ch.fxt					22 - 22		0.bmp 00001.bmp	
American DJ Mega Bar LED 2ch.fxt	Pan 8bit :	1	Pan	16bit	0	Pan Range	00001.bmp	
American DJ Mega Bar LED 2ch.fxt	Tilt 8bit :		Tilt 1	6bit	0	Tilt Range	00003.bmp	
Explorer250pro.fxt	Bassical Second					1	00004.bmp 00005.bmp	
Exit	Reset channel		не	set va			00006.bmp	
goboch. 3 n° gobos	Shutter ch.	7	open	1	closed	0	00007.bmp 00008.Bmp	
	Strobe ch.	6	off	0	low		00009.bmp	
🗹 Enable CMY / RGB 🛛 RGB values			med	175	high		00010.bmp 00011.bmp	
1st colorch. 4 n*colors 18	Intensity channel	7	min	0	max	255	00012.bmp	
2nd colorch. n* colors	Lamp channel		on		off		1.10bmp	
Red Channel 1	Iris channel	5					1.20.bmp 1.30.bmp	
Green Channel 2	Focus channel	-					1.50bmp	
Blue Channel 3	Frost channel						1.70bmp 1.80bmp	
CTO channel	2nd. Frost channel	0					1.99bmp	
	Zoom channel						1.BMP	
🔝 Enable Framing	Prism channel						10.10bmp 10.20bmp	
	Prism rotation	0					10.30bmp	~
Ready							A	

You must do a "Save as" otherwise you could overwrite the 2 channel fixture.

Save fixture			? 🗙
Save in:	🔁 Fixtures	💌 😳 🏚 🔛 🖬 🗸	
My Recent Documents Desktop My Documents	FC 1 PAR64L.fxt FC 1 PAR64R.fxt FC 2 PAR64R.fxt FC 2 PAR64R.fxt FC 3d magic.fxt FC 4 PAR64L.fxt FC 4 PAR64L.fxt FC 6 PAR64R.fxt FC 6 PAR64R.fxt FC 6 PAR64R.fxt FC 20CentZ-XXc007.fxt FC 24 channel dimmerpack.fxt FC 83 STAGE SCAN.fxt FC 200B.fxt	 F. Accuscan 250.fxt F. AccuSpot II.fxt F. Acrobat.fxt F. ADJ Color Fusion.fxt F. ADJ DynastyScanDMX.fxt F. ADJ MEGA FLASH DMX.fxt F. ADJ Par 56.fxt F. ADJ Pearl WH.fxt F. ADJ-DJ-SCAN-250hp.fxt F. American DJ Mega Bar LED 2ch.fxt F. American DJ Mega Bar LED 3ch.fxt F. American DJ Mega Bar LED 4ch.fxt F. American DJ Mega Bar LED 11ch.fxt 	FC Ame FC Ame FC Ame FC Anir FC Apo FC Aqu FC Aqu FC Astr FC Astr FC Astr FC Atla FC Atla FC Atla FC Atla FC BAT FC bat.
My Computer	File name: American DJ Merican DJ Me		ave incel

As you can see I have changed the 2 into a 7 in the "File name:", click the "Save" button.

🐔 Fixture creator 4.9						
File Imagelist						
New F2	rwheel Macros					-+fast.bmp
Open F3						+-fast.bmp 🔤
Save F4		0.0				-+med.bmp
Save as F6				lega Bar LE ge for FreeS		+-med.bmp +med.bmp
Export F7	No. State of a		b - untest			-+slow.bmp
Import F8					2	+-slow.bmp +slow.bmp
American DJ Mega Bar LED 2ch.fxt American DJ Mega Bar LED 2ch.fxt American DJ Mega Bar LED 2ch.fxt Explorer250pro.fxt	Pan 8bit : Tilt 8bit :		Pan 16bit Tilt 16bit	0	Pan Range Tilt Range	0.bmp 00001.bmp 00002.bmp 00003.bmp 00004.bmp
Exit	- Reset channel		Reset va	alue]	00005.bmp 00006.bmp
goboch. 3 n° gobos	Shutter ch. Strobe ch.	6 of	pen 1 if 0 ed 175	closed low high	50	00007.bmp 00008.Bmp 00009.bmp 00010.bmp
	Intensity channel	7 r	min ()	max	255	00011.bmp 00012.bmp
1st colorch. 4 n° colors 18 2nd colorch. n° colors 18	Lamp channel	0	on	off		1.10bmp
Red Channel 1 Green Channel 2 Blue Channel 3 CTO channel	Iris channel Focus channel Frost channel 2nd. Frost channel Zoom channel Prism channel Prism rotation	5 0 0				1.20.bmp 1.30.bmp 1.50bmp 1.70bmp 1.80bmp 1.99bmp 1.BMP 10.10bmp 10.20bmp
		0				10.30bmp
Ready						

Now Export the fixture.

Save Export				? ×
Save in:	C FreeStyler E	cports	🗹 🔇 🤌 📂 💷 •	
My Recent Documents Desktop My Documents My Computer	American DJ N American DJ N Am	Mega Bar LED 2ch.pff Mega Bar LED 3ch.pff Mega Bar LED 4ch.pff Mega Bar LED 11ch.pff Mega Pixel LED-3CH.pff Mega Pixel LED-4CH.pff Mega Pixel LED-7CH.pff PAR200B.pff	 eurolite LED bar 324-10 - 20ch_6.pff GLP YPOC 250 Color.pff Hippo PAR36 60 10mm.pff Look Unique 2 Gilbz.pff Look Unique 2.pff MTC Wash 250.pff Showtec Explorer 250 Pro MKII.pff Showtec Sunstrip Active DMX.pff Smart Scan SSC-2.pff Unique 2 Gilbz.pff 	
	File <u>n</u> ame:	American DJ Mega Ba	ar LED 7ch.pff 🛛 🖌	Save
My Network	Save as type:	(*.pff)	✓ C	ancel

Name should be correct so you can click the "Save" button. You can close the Fixture Creator and use it in FreeStyler now. I will add to this tutorial at a later date to add the other modes.

I hope it has given an insight into how to create multi element RGB fixtures and how to patch them for use in FreeStyler.

If you notice any errors in this tutorial then let me know. I appreciate all comments good or bad but please make them constructive don't just its crap or I don't understand, explain why and I will try and fix it as best as I can.

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