

Resolume Arena.



[Resolume Arena](#) is Vj software, normally used for sending visuals to screens. But can also can output the color or brightness of your pixels to LED strips or other light fixtures via DMX. Beware that you need a hardware controller to covert you signal to DMX, NOT an Enttec..... ([see below](#))

Control lights using visuals as input, straight from within the software.

Check out the explanation of the basics on the [Resolume Website](#) it's really clear & helpfull.

<https://resolume.com/support/en/dmx>

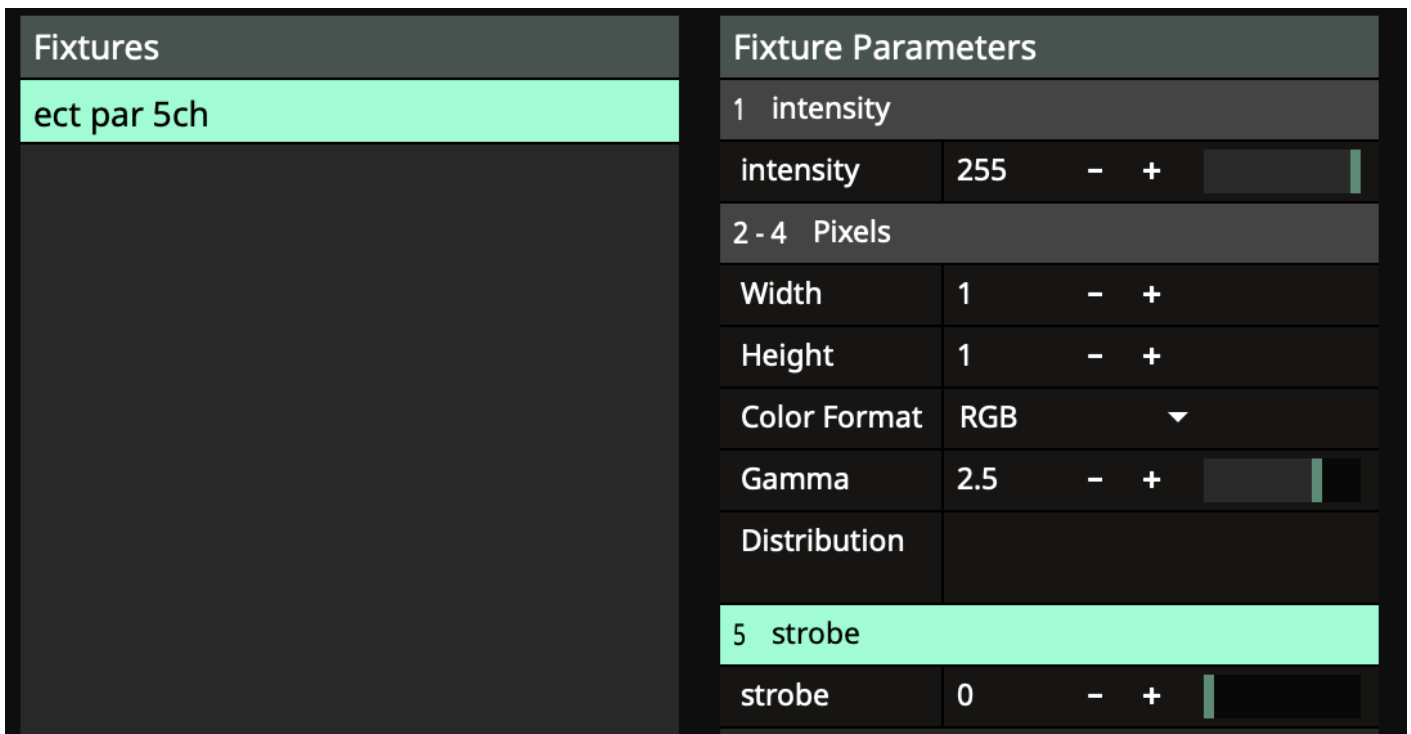
Creating custom fixtures in Arena:

The basic explanation for creating fixtures can be found here :

<https://resolume.com/support/en/fixture-editor#creating-a-new-fixture>

Use the fixture editor to create fixtures as output in Arena. Remember, a Par or Spot is 1 x1 pixel, so if you select a bigger input, it wil still output one color. Choose the Color Format that matches your fixture (see the dmx traits when you do a search for the brand & model)

Many of the (theater)lights you can use or borrow at HKU can be put in RGB mode. But in some cases you may want to acces a fixture without changing the mode even if it is set to 5 or 6 channels including intensity and strobe, which cannot be used by Resolume. The fix for this is to work with dummy channels/custom parameters, like in this picture:



Intensity is set to a fixed 100 (else the colours won't be visible) & strobe to a fixed 0. The rest will be done in RGB mode.

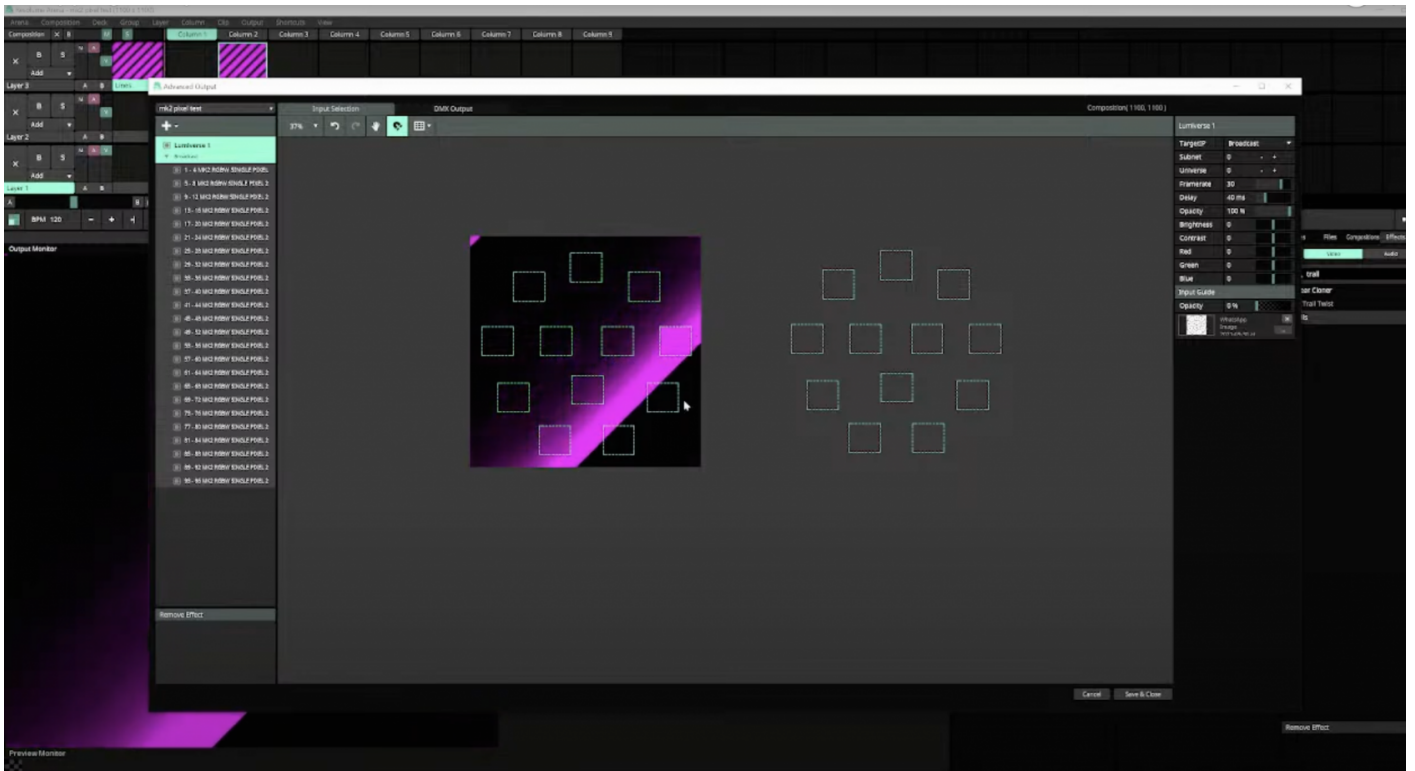
Add these parameters with the + icon below & drag them to the right order.

Tutorial about Mapping Pixels with DMX

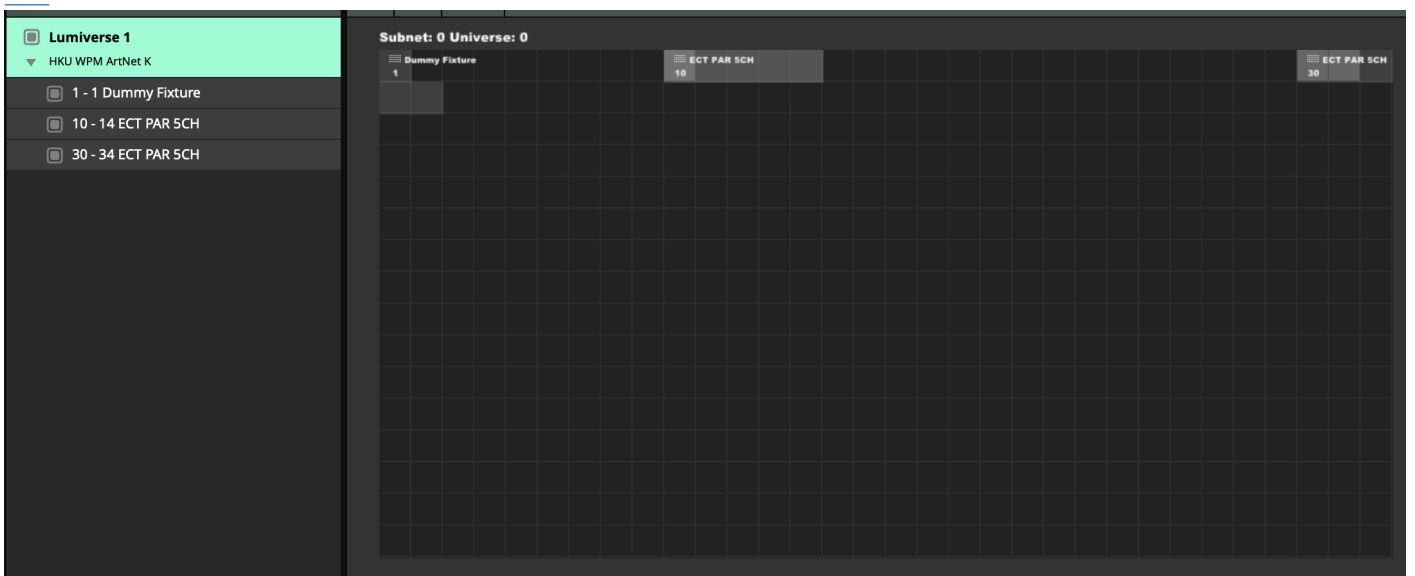
In this [tutorial](#), Resolume Arena is used to create and control various **DMX Light fixtures**.

Every dmx light has its own specifications, pixel mapping possibilities and/or channel modes. Learn how to make your own light fixture layout for your personal lights in Resolume. Also how to decide what animations run over your fixture(s).

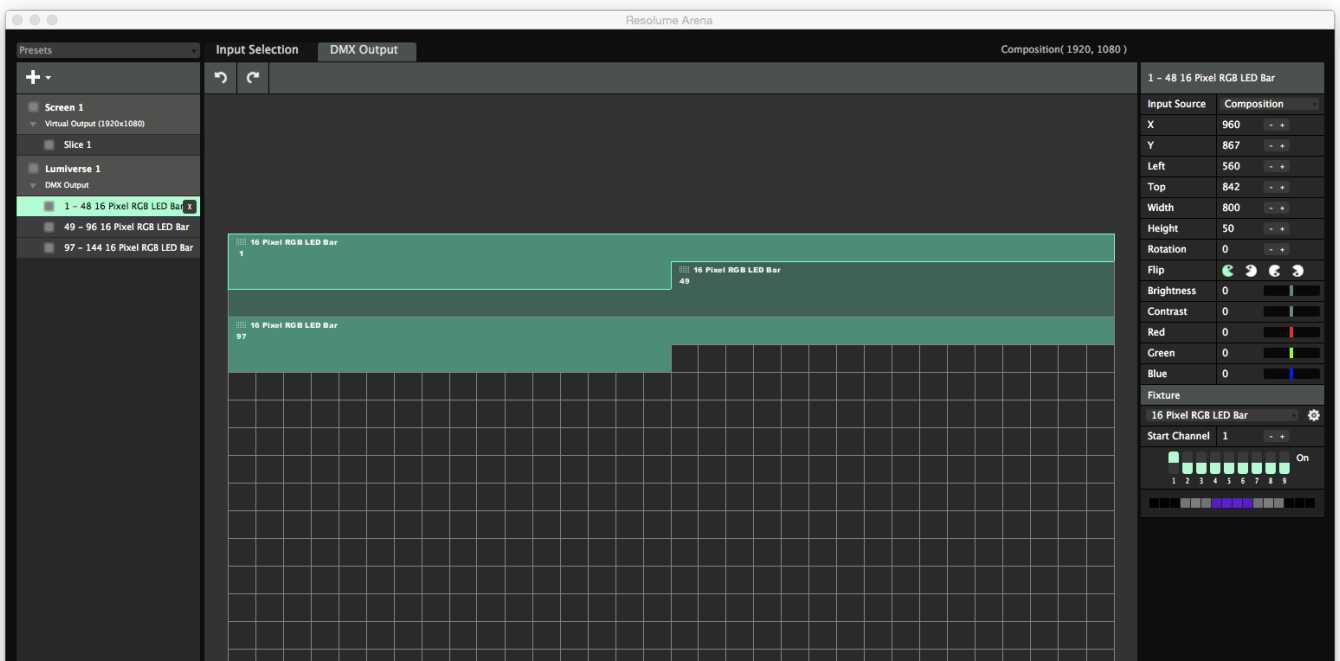
<https://www.youtube.com/watch?v=LKtKUMT4ZOo> screenshot from YouTube video:



example of fixture output in Arena:



example of a pixelstrip as output in Arena:



ArtNet Devices supported by Resolume Arena.

Resolume Arena 6 and up do not support Enttec DMX USB devices! If you'd like to use an Enttec DMX USB device, your only option is to stick with Arena 5. Or to use a different USB to DMX device.

At the HKU Blackbox we use a [LanBuddy](#) or [Showtec NET 2/5](#) or Showtec NET 2/3, as output device for sending DMX information from the PC to the lights.

What is convenient about this setup vs using Enttec DMX USB (MKII and such), is that we can extend the Showtec NET 2/5 by use of network cable, instead of USB cable. Example: if you want your lamps all the way at the far end of a large room, you can connect the PC and dongle via 30m network cable without signal loss, vs having to extend DMX cables/usb cables.

These ArtNet converters can also be used wireless, over Wifi, when plugged in to your router (ethernet). Bye bye cables :)



Manual about the NET 2/3 https://www.huss-licht-ton.de/images/products_download/Manual_34954_1.pdf

Manual about the NET 2/5 <https://www.highlite.com/en/mwdownloads/download/link/id/17428216>

Lanbuddy MAnnual <https://www.elclighting.com/wp-content/uploads/2022/09/Buddy-quickstart.pdf>

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