

Crystal Fans FX3. The special aspects of modes creation.

The fans supply package contains a manual describing the general operating principals of all pixel equipment produced by NeoPoi.Com

Crystal Fans FX3 have the same functions as pois but thank their shape, the fans show a clear and complicated picture unlike the classic pixel fans (with direct rays) or pois represented on the site. The fans show stunning special effects, tints, and gradients looking attractive in their own way.

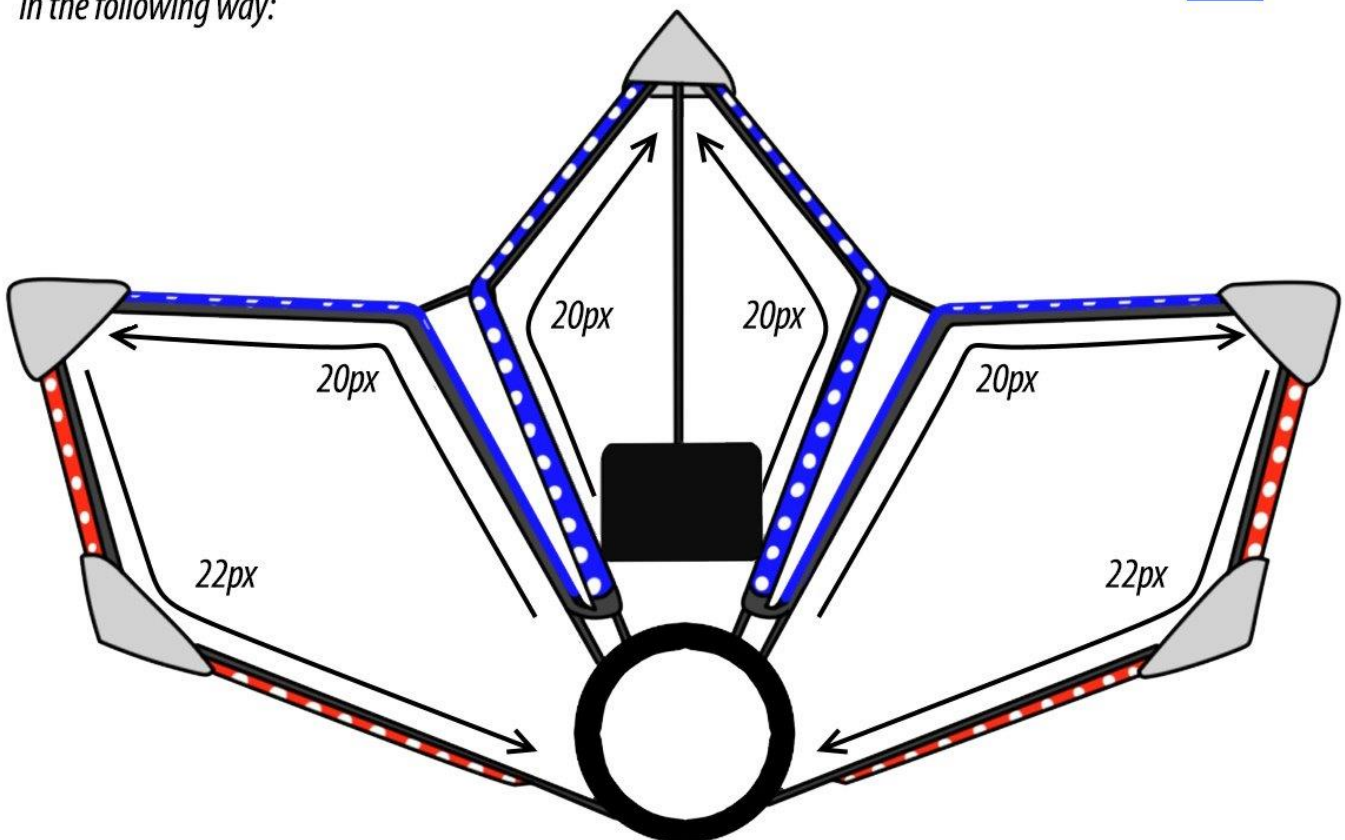
The maximum image height for this fan model - **42 pixels**.

The central fan crystal displays 20 pixels on the right and on the left side. In case the image height is more than 20 pixels, the central crystal will display only the lower 20 pixels of the image. The sideward crystals display the same 20 pixels at first, and then the digital tape bends and displays extra 22 pixels. In other words, the total number of pixels on the sideward tabs is 42.

To understand how to create modes for this fans model, get acquainted with the pixel pois. In the pixel pois, the digital tape is straight and has a stick shape, while the fans contain curved digital tapes emerging from the base. In a similar way to pois, one can imagine how everything works.

For clarity, we visualize it in the following way:

For example. A two-color picture red-blue gradient, with a total height of 42 pixels, in which the blue color occupies 20 pixels, and red – 22 pixels. On the fan it'll be displayed in the following way:



The arrows inside the fan show the guide paths how the picture is bent and displayed. If you hold a "pixel poi" and not a fan, it'll display the picture straight. But in this case, on the sideward rays where the red color is, the picture bends downward. That's why in the example, the upper red 22 pixels will bend down on the sideward "crystals".

The fan supports images from the 1st pixel, in other words, the 5-pixel image on the central crystal will be duplicated full length 4 times. ($20/5=4$), but on the sideward crystals, it will be duplicated 8 times ($42/5$) and partially will fill the other 2 pixels.