



12" Pixel Sphere

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VIEW IN BROWSER

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Summary

This is a lightweight pixel sphere made with aluminum extrusions and printed parts. The Pixel clip holds a standard...

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This is a lightweight pixel sphere made with aluminum extrusions and printed parts. The Pixel clip holds a standard 12MM bullet pixel.

Materials:

- Bullet Pixels - can use 64 for 8 per rib or 56 for 7 per rib
- 2 x 6 foot 1/4" x 1/8" aluminum extrusion - can be sourced from <https://www.mcmaster.com/catalog/127/3989>

Cut the extrusions in at 1/4" and 1/2" from the half way point (So you will end up with 4 rods of slightly different lengths)

Use a dremel or notching tool to create a notch 1/4" inch from the end of the rod. You can use the printed part as a template.

On the other end of the rod, cut another notch on the opposite side from the first notch.

Use a ring roller (or hand bend using a 5 gallon home depot bucket)

Slide the pixel clips on and then insert the extrusions into the mounting bracket.

Use the 2 locking clips to lock the extrusions into place.

Fusion360 Files at this link: <https://a360.co/3sIsqRg>

Print Settings

Printer Brand:

Prusa

Printer:

I3 MK3S

Rafts:

No

Supports:

No

Resolution:

200

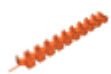
Infill:

20

Filament: PLA PLA Green

Category: DIY

Model files



pixel_clip_set_of_10.stl



locking_pins.stl



pixel_clip.stl



main_bracket.stl

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com)

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