



## Fast Print fully parametric LED Matrix Cover / Diffusor made in Fullcontrol, tested with: 8x8 16x16 32x32

 so meone

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updated 15. 1. 2024 | published 15. 1. 2024

### Summary

Parametric diffusor plate for LED grid Matrix made in fullcontrol. Probably the fastest way this can be Printed.



0.50 hrs



4 pcs



0.30 mm



0.40 mm



PLA



50 g



Anycubic  
Kobra 2 Neo

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Tags: [fastprint](#) [ledmatrix](#) [ledcover](#) [fullcontrolcode](#)  
[fullcontrolxyz](#) [fullcontrol](#)

A parametric LED Matrix diffusor front plate.

fullcontrolXYZ based, 100%extrusion, 0 travel, 0 retractions.

Extrudes at 0.8mm, which is totally fine for a 0.4 nozzle. A bigger nozzle will probably allow much faster print speeds.

Prints as fast as your extruder can squeeze out filament.

This will be part of a full case, in the meantime you can use it with many other enclosures or without one.

Use one of the provided gcode files or create your own using [this](#) colab notebook.

Im adding features/bugfixes to the colab from time to time. The gcode here is working fine and is tested but is missing some of the latest tweaks.

Things in colab that aint here yet: Multiple thinner bottom layers with lower extrusion width, 0.42\*0.1mm gives me way better, almost perfect first layers.

Please leave a like/comment or suggestions you have /changes you made.

fullcontrol: <https://github.com/FullControlXYZ/fullcontrol>

## Print files



### ledmatrix-8x8-s80x5mm-lh03-ew08-ps110-t215\_60.gcode

🌀 PLA 🌀 0.40 mm 🌀 0.30 mm 🕒 0.15 hrs 📊 14 g

📦 PLA, 215° extruder, 60°bed



### ledmatrix-16x16-s160x5mm-lh03-ew08-ps110-t215\_60.gcode

🌀 PLA 🌀 0.40 mm 🌀 0.30 mm 🕒 0.50 hrs 📊 50 g

📦 PLA, 215° extruder, 60°bed



### ledmatrix-16x32-s160x320x5mm-lh03-ew08-ps110-t215\_60 .gcode

🌀 PLA 🌀 0.40 mm 🌀 0.30 mm 🕒 1.00 hrs 📊 98 g

📦 PLA, 215° extruder, 60°bed



### ledmatrix-32x32-s320x5mm-lh03-ew08-ps110-t215\_60.gcode

🌀 PLA 🌀 0.40 mm 🌀 0.30 mm 🕒 1.90 hrs 📊 190 g

📦 PLA, 215° extruder, 60°bed

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