



Helicopter Mi-8, Mi24 Collective



[VIEW IN BROWSER](#)

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Summary

This design is inspired by the Mi-8, Mi-24, Mi-35 collective. It fits onto a Virpil/Thrustmaster (Warthog/Cougar) base.

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[mi24](#) [mi8](#) [hind](#) [simpit](#) [mi35](#) [mi17](#)

I haven't printed this last version of the part with all the switches, yet. Please share your results if you print it.

Don't forget to like and comment.

This collective grip has:

- 3x axis
- 1x 4-way hat switch
- 4x press-buttons

Print:

- Printed in PLA

- The grip and brake pad are printed in TPU

Materials:

- 1x rotary potentiometer
- 1x joystick module 5-pin KY 23 PS2 without the circuit board (Arduino UNO starter kit for instance).
- 3x press switch (hole diameter is 16mm)
- 4x mini press buttons (6x6x4.3 momentary button)
- Arduino Pro Micro or Leo Bodnar
- 160mm metal pipe (outer diameter 6mm, inner diameter 5mm)
- 180mm threaded rod (outer diameter 5mm)
- 1x M5 nut
- 2x M3 nuts
- 6x M3x16mm bolts
- 1x M3 x10mm bolt + nut
- 16x 6mm diameter ball bearing

Tutorial video about the electronics

buttons: potentiometer/axis:

Notes:

- 3D-printed plastic isn't as resilient as the grip.
If you can make the structural parts out of resin: do. If it's not an option: use PLA or better, choose at least 90% infill and print the parts with an angle (potential crack to filament layer). Adapt the joystick response curves so you don't yank your stick like a mad man. Then it'll be fine.

This remix is based on



Mi-24 Hind / Mi-8 Collective for Virpil Base

by Joker_G

Model files

joker_g_mi_collective.3mf

joker_g_mi8_head_structural.stl

joker_g_mi8_grip_tpu.stl

joker_g_mi8_handle.stl

joker_g_mi8_hat.stl

joker_g_mi8_hat_cover.stl

joker_g_mi8_safety.stl

joker_g_mi8_shaft.stl

joker_g_mi8_friction_brake_ring.stl

joker_g_mi8_friction_brake_pad_tpu.stl

joker_g_mi8_base_structural.stl

joker_g_mi8_rod_structural.stl

joker_g_mi8_base_nut_structural.stl

joker_g_mi8_base_oring_tpu.stl

joker_g_mi8_base_bolt_structural.stl

joker_g_mi8_base_base_cap.stl

joker_g_mi8_switch_box.stl

joker_g_mi8_switch.stl

joker_g_mi8_switch_cover.stl

[Find source .stl files on Thingiverse.com](#)

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