



CMF RIG PRO - Magnetic Camera Cage for CMF Phone 2 PRO



[VIEW IN BROWSER](#)

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Summary

Modular cage for CMF Phone 2 PRO with magnetic mount, 1/4-20 threads, and pro filmmaking features.



18.15 hrs



4 pcs



0.20 mm



0.40 mm



PET



386 g



Prusa XL

[Gadgets](#) > [Photo & Video](#)

Tags: [video](#) [modular](#) [phone](#) [pro](#) [cage](#) [rig](#)
[threadedinsert](#) [rosette](#) [videography](#) [cinema](#) [versatile](#)
[camerarig](#) [cmf](#) [cmfphone1](#) [cmfbynothing](#) [cmfphone](#)
[cmfphone2pro](#) [rosettelock](#)

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CMF RIG PRO - Magnetic Camera Cage for CMF Phone 2 PRO



Unleash the full cinematic potential of your smartphone with **CMF RIG PRO** - a professional-grade modular cage system designed specifically for the **CMF Phone 2 PRO**. Whether you're a mobile filmmaker, content creator, or vlogger, this cage transforms your phone into a powerful video production tool.

Key Features:

- **Universal 1/4-20 threading:** Easily mount accessories like microphones, LED lights, wireless receivers, or power banks.





By removing the side arms of the cage, the 1/4" threaded inserts become essential for mounting the phone onto professional tripods. This allows for a secure and stable setup during static shots, and ensures smooth and fluid camera movements when using tripods with fluid heads, perfect for studio-style video production.





- **Dual phone mounting system:**

1. **Magnetic mount** with a robust array of **60+8 alignment magnets** for secure, precise snap-in placement.
2. **Friction-fit mode** with **TPU rubber pads** for perfect grip without magnets.



- **Rosette Lock Handles:** Ergonomic and adjustable side handles featuring a secure rosette locking system for optimal stability and control.



- **Open USB-C Port Access:** Keep your phone powered throughout long shooting sessions without removing it from the cage.



Despite being optimized for the **CMF Phone 2 PRO**, the CMF RIG PRO is also compatible with the **CMF Phone 1**, using the rubber pad grip method (without magnetic mounting).

Level up your mobile videography setup with **CMF RIG PRO** – sleek, modular, and designed to meet the demands of modern filmmakers.

*** Additional Accessories:**



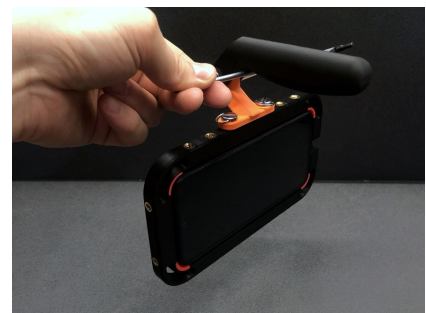
I've developed a series of **new accessories and variations** based on the original design, to improve ergonomics and expand functionality. These include:

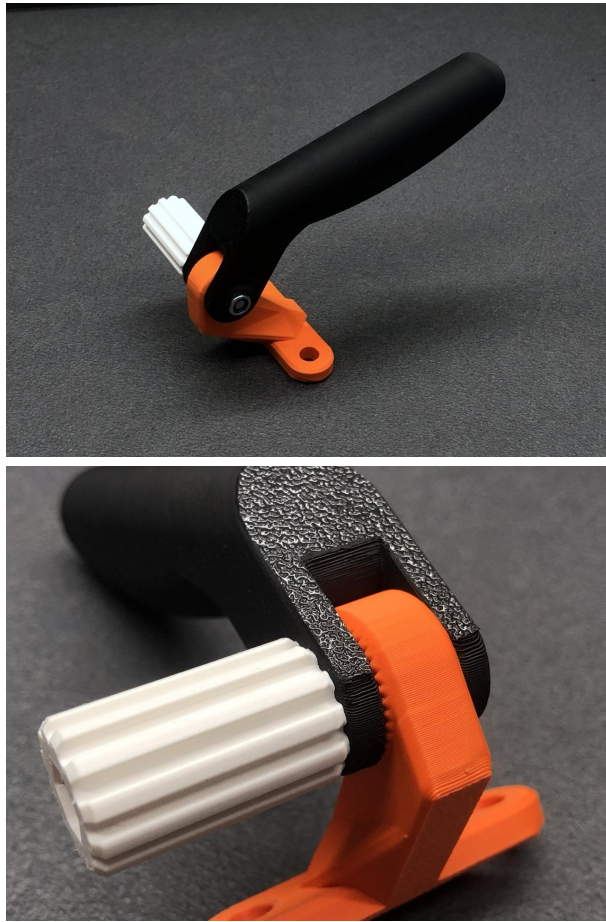
Balanced Ergonomic Top Handle

This balanced handle attaches to the cage using two standard 1/4" photo screws and can be mounted on either of the long sides of the cage.

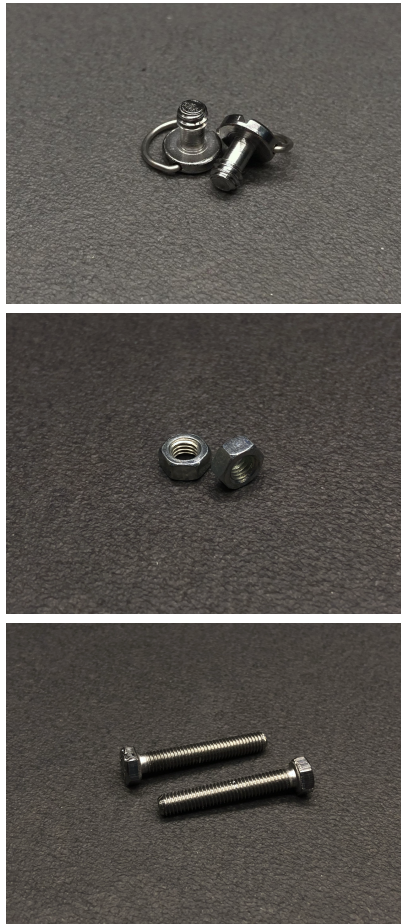
The kit includes **3 parts**: the handle itself, the mounting base, and the tightening knob.

It also features a **Rosette Lock system** for secure and adjustable positioning.





To assemble the knob, you'll need **2 x 1/4" photographic screws**, **1 x M5 nut** and **1 x M5x30 hex-head screw**.



This handle is perfect for **dynamic shooting** or when working in **tight spaces**.

Photo Grip Handle

This grip mounts directly to the cage with two **M5x14 screws** . It's designed to be attached only to the **right side** of the cage to avoid blocking the phone's cameras.

There are **two mounting positions** – forward or backward – for personal preference.

The top part features an open zone that can be **remixed or customized to integrate a Bluetooth trigger** for easier photo capturing.



⚠ **Note:** When using this grip, you won't be able to access the phone's charging port simultaneously.

Ergonomic Handle with Cold Shoe Mount

This is a variation of the standard ergonomic handle, now featuring a **cold shoe slot** on top for mounting accessories like **microphones**, **LED lights**, or **flashes**. A compact and handy solution for creators!



Print Files & Quantities

Printable Files:

- 1× Cage
- 2× Side Bracket
- 1× Left Arm (L)
- 1× Right Arm (R)

2× Ergonomic Handle

2× Knob

Hardware

14× 1/4" x 12,7 Threaded Inserts

10× M5 Threaded Inserts

2× M5 Nuts

8× M5×14 Screws (Button/Socket Head)

2× M5×30 Screws (Hex Head)

68× 4×2mm Round Magnet (Optional)

Additional Accessories Hardware:

Top Handle:

1× M5 Nuts

1× M5×30 Screws (Hex Head)

2× 1/4" Photographic Screws

Photo Grip Handle:

2× M5×14 Screws (Button/Socket Head)

Handle with Cold Shoe Mount:

No additional hardware required if this version is printed instead of the base ergonomic handle.

⚙ Slicer Settings

Material: PETG + TPU (for rubber pads)

Layer Height: 0.2 mm

Infill: 50%

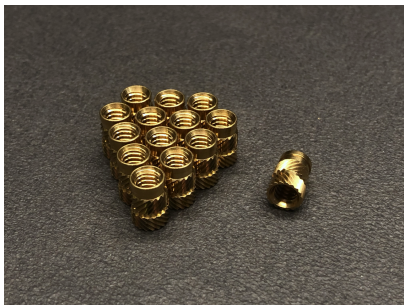
Supports: Yes (on Knobs and Ergonomic Handle)

Assembly Guide

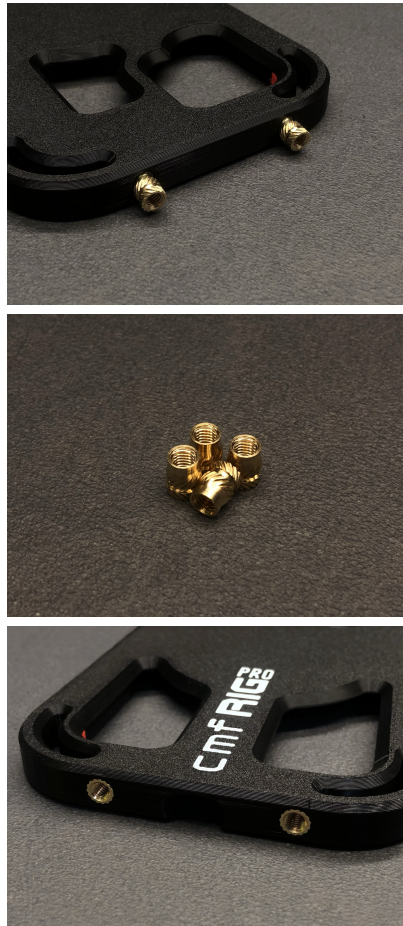
1. Insert the Threaded Inserts

Once all parts are printed, begin by inserting the threaded inserts into the main cage body:

On the top and bottom edges, insert the **1/4"-20 inserts**.



On the short sides, insert the **M5 threaded inserts**.

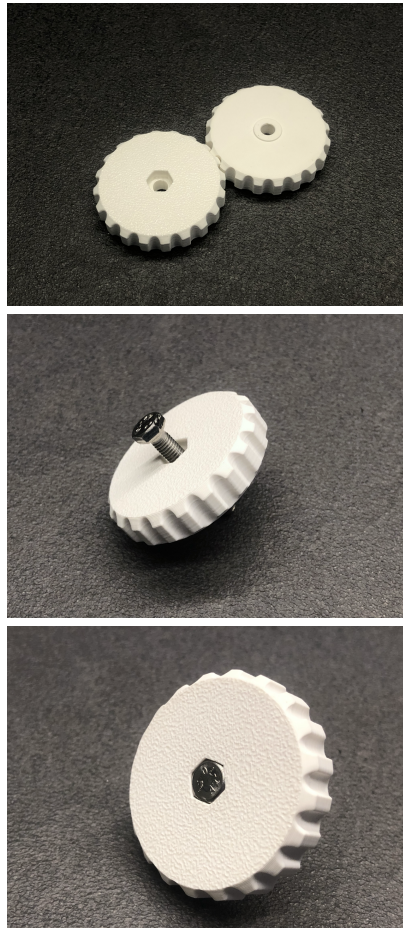


Then insert the **M5 inserts** into the three holes on each ergonomic handle.



2. Assemble the Handle Units

Start by inserting an **M5×30 hex head screw** into the **knob**, placing it into the dedicated slot.



Next, place an **M5 nut** into the matching slot on the arm (note: left and right arms are different).



Screw the knob into the arm and side bracket, securing the mechanism.

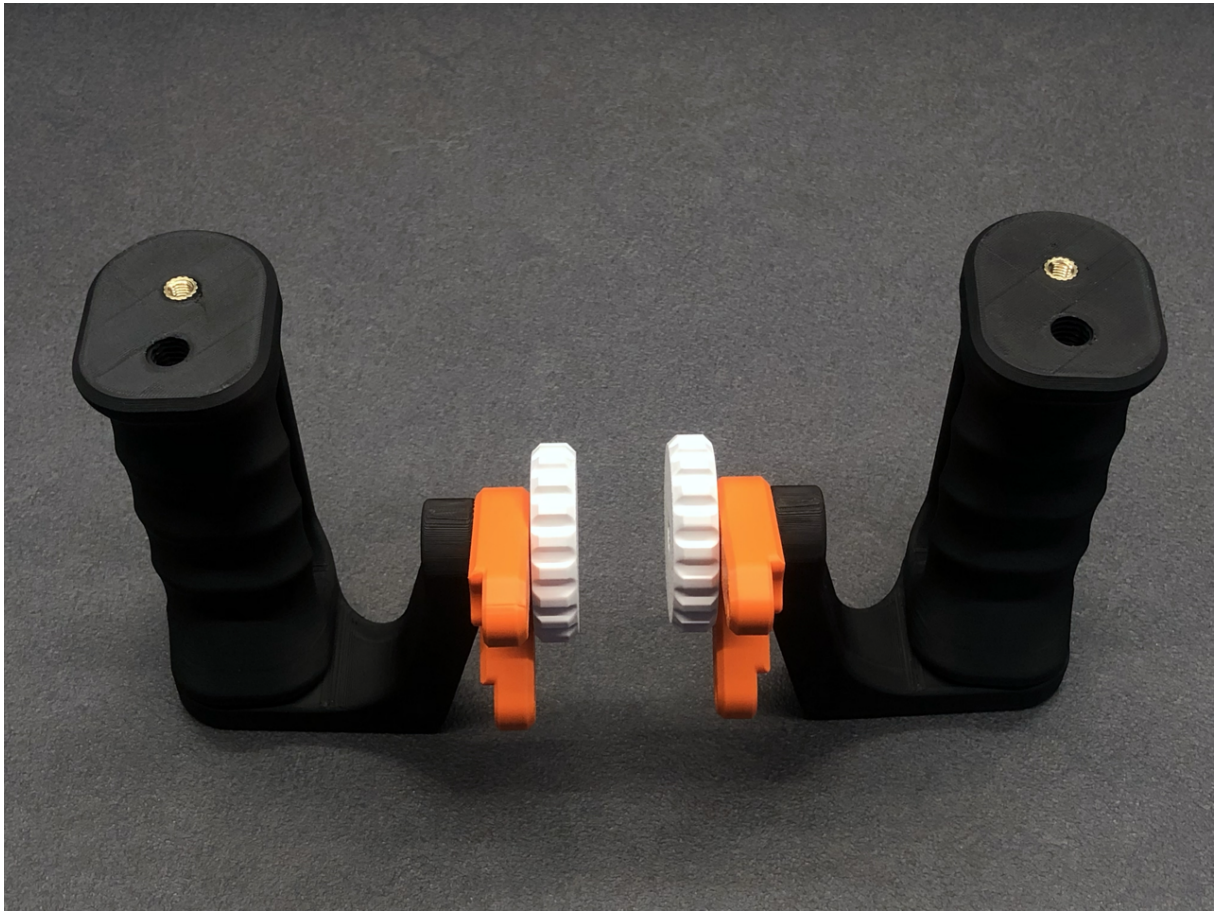


⚠ Make sure that once assembled, the handle is positioned **behind** the phone, this ensures the arm does not obstruct the camera.

Mount the **ergonomic handle** onto the arm using **2× M5×18 screws**.



Repeat the process for the opposite arm.



3. Attach the Arms to the Cage

Fix both arms to the cage body using **4× M5×18 screws** (2 for each arm).



4. (Optional) Magnet Installation

The CMF Phone 2 Pro uses a magnetic pattern similar to MagSafe.

To find the correct orientation, place the magnets directly on the phone to identify the polarity and arrangement.



Once identified, insert the magnets into the dedicated slots in the cage, following the same pattern.

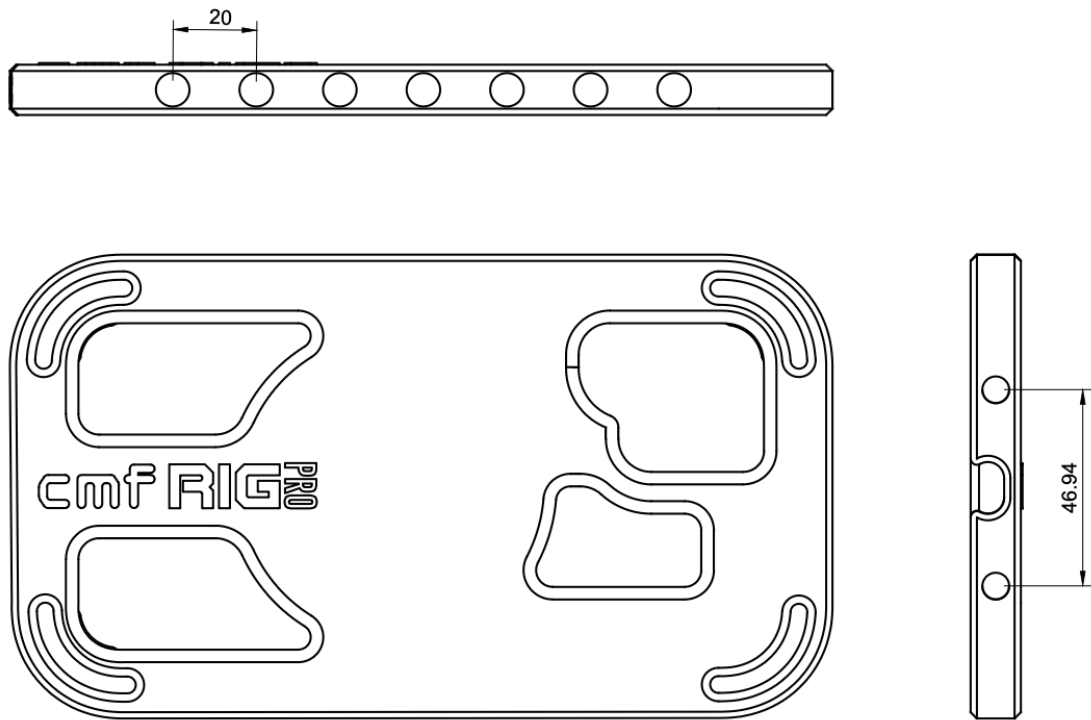


⚠ Important: The face of the magnet that was **touching the phone** should remain **visible** when placed in the cage.

Share Your Make & Remix!

I'd love to see how you build and customize this project. Your feedback is incredibly valuable and helps me improve my designs.

Below are the spacing measurements (center-to-center) for the M5 and 1/4" threaded inserts, useful for creating compatible accessories.



If you create improvements, remixes, or alternate modules, **share them with the community!**

Follow for More

Don't forget to follow [3D KIMBA](#) for more projects, creative ideas, and helpful tools for makers!

3D KIMBA

Model files



Cage Single Color

2 files



cage-single-color.stl



rubber-pads.stl

☐ For Cage Single Color - Single material Version



Handles

6 files



ergonomic-handle.stl

☐ With 3/8" Attachment



ergonomic-handle-with-cold-shoe-mount.stl

☐ With Cold Shoe Mount



photo-grip-handle.stl

☐ Optional - Fixed Grip for Photography



top-handle.stl

☐ Optional



top-handle-bracket.stl

☐ Optional



top-handle-knob.stl

☐ Optional



cmf-rig-pro.3mf



left-arm.stl



right-arm.stl



side-bracket.stl



knob.stl

Print files



petg-petg-tpucage_multicolor_xl.bgcode

PET 0.40 mm 0.20 mm 5.70 hrs 110 g Prusa XL



petgarms-handles_xl.bgcode

PET 0.40 mm 0.20 mm 10.01 hrs 224 g Prusa XL



petgside-brackets_xl.bgcode

PET 0.40 mm 0.20 mm 1.35 hrs 28 g Prusa XL



petgknobs_xl.bgcode

PET 0.40 mm 0.20 mm 1.09 hrs 24 g Prusa XL

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