



Keen-One Harmonic Drive EQ Mount



MrDeepAddicted

[VIEW IN BROWSER](#)

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Summary

This is 3D printed Harmonic Drive. OnStep system is compatible with Stellarmate(INDI) and ASiair.

[Learning](#) > [Physics & Astronomy](#)

Tags: [astronomy](#) [astronomytelescope](#) [astrophotography](#)
[equatorial](#) [harmonicdrive](#) [onstep](#)

Updated: 2 Oct 2022

Uploaded HarmonicD_RA.zip This include STEP file.

Updated: 7 September 2022

Uploaded [Simplest OnStep System & Case](#)

Updated: 18 August 2022

CupGear_TPU_v2 >>> CupGear78_PETG

TPU is too soft for CupGear, so I redesigned CupGear78_PETG

Keen-One is Harmonic EQ Mount with OnStep controller

This is remix. Many Thanks to Mr RomanHujer!

All parts are printed PETG.

Parts list for 1 unit.

2 units are required for use as a dual-axis (RA & DEC) equatorial mount.

BOM for 1 Unit

1 x 6812ZZ Bearing-60x78x10

1 x 6807ZZ Bearing-35x47x7

6 x 606ZZ Bearing-6x17x6

1 x 17hs4401s-pg5.18: 1 (Geared Steppermotor)

<https://ja.aliexpress.com/item/32864312875.html>

1 x Aviation Plug GX12 4pin Male

2 x M3 6mm

1 x M3 10mm

4 x M3 12mm

6 x M3 15mm

4 x M3 30mm

4 x M4 20mm

6 x M4 35mm

6 x M4 45mm

10 x M4 25mm

7 x M3 Nut

12 x M4 Insert Nut

20 x M4 Nut

2 x M6 Nut

2 x M8 Nut (Thin 5mm type)

1 x Arca Swiss Quick Release

Assembly Instruction *Written in Japanese but you can change language setting.

https://mr-deep-addicted.com/?page_id=1770

Onstep controller is not included.

I uploaded Simplest OnStep System & Case for control this telescope mount.

<https://www.printables.com/model/273808-simple-onstep-system-case-wemoscnc3>

This remix is based on



HrEM - Harmonic EQ Mount

by Roman Hujer

Model files



bearingholda.stl



mainhousing_v2.stl



bearingholdb.stl



motorcover.stl



wavegenb.stl



motorholda.stl



outputplate.stl



outputshaft_v2.stl



motorholdb_v2.stl



wavegena.stl

vixenpolarf_attachment.stl



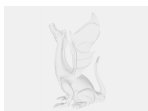
cupgear78_petg.stl

circular79t.stl

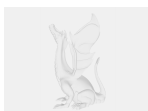


cupgear_tpu_v2.stl

Other files



howtoassemble_v2.pdf



harmonicd_ra.zip

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