

H4 GRAVIT MICRO

We put this delightful 2.4 GHz micro quadcopter RTF from LRP through its paces and check out those 360 degree flips!



Introduction

The LRP H4 Gravit Micro is a pre-assembled RTF quadcopter controlled by a 2.4 GHz transmitter. It comes out of the box ready to fly with the rotors protected by a durable plastic body in case of accidental heavy landings or bumping into obstacles. Designed for indoor use it has an overall diameter of just 190 mm, which is slightly larger than your average micro quad, and features an extremely agile flight characteristic with its built-in 6-axis gyro that makes it exceptionally easy to control. Some of its key features and specifications include:

- RTF (fully assembled and ready to fly)
- 360° automatic looping by hitting a button
- Backlit blue LCD screen
- 6-axis gyro for stability
- Safety guards around rotors
- Comes with training mode for new pilots
- 4-channel 2.4 GHz FHSS transmitter with blue backlit display
- Training Mode – Quadcopter flight mode can be switched between training and regular mode via the mode button on the transmitter
- Long flight time – for maximum fun

The four rotors and the electronics are suitably protected by a body made of flexible, shock-resistant synthetic material, therefore the H4 Gravit Micro is also able to withstand hard landings and even light crashes. The LRP 2S 240 mAh LiPo battery can be taken out for charging with the included USB charging cable. An additional headlight can be switched on via the transmitter, which also enables flying in darkened rooms a little easier to orientate.

To look at the Gravit it seems like just another ordinary micro quadcopter but a closer look at the controls reveals much more.

Transmitter Display

When switched on the transmitter displays a large central number on the large backlit blue LCD screen. This number indicates the throttle setting; i.e. 0~100%. Also displayed are the mode setting, headlight on or off, and



battery level. Digital trim adjuster positions are also shown on screen also.

Headlight LED Button

You can switch the Gravit's LED headlight on or off by pressing the LED button mounted on the top right of the Tx.

Mode-Switch (360 Expert)

By using the Mode-Switch you can switch between Beginners – Mode 1 and Advanced – Mode 2. Which mode is active at the time can

Everything you need to fly



be read from the LCD screen. When using Mode 2 the acceleration is much quicker and the Gravit reacts more quickly to control stick commands.

360 Deg Button

When you push the 360 degree button on the front of the transmitter the Gravit Micro performs a sideways loop and then flies on normally.

USB Charger

Connect the charger unit with a running PC or laptop using the provided USB cable; alternatively you can use a USB power supply. Next connect your battery to one of the free sockets on the left or right side of the charger. Your battery is fully charged when the red LED disappears.

SAFETY WARNING:

Never leave the battery unattended while charging, and never leave your power supply connected to mains power when not in use.

Flight Prep

Insert battery centrally into the cradle and switch on the transmitter where a short beep will be heard and the status LED will flash red and the LED display will start to operate. Now connect the battery and place the model on a flat tabletop surface for the gyro to stabilise and establish horizontal. Move the throttle fully open and fully closed to activate the model and the flashing status light will stop flashing. After a short sequence of beeps you are now ready to take-off.

“ You can switch the Gravit's LED headlight on and off ”

The headlight button is positioned on the top right of the Tx and shines brightly facing forwards on the Gravit Micro



The basic 2.4 GHz FHSS transmitter has digital trims plus two additional function buttons (mode select and 360 deg flip) on the front panel; the LED display here shows zero throttle, selected switch state and battery level

In Flight

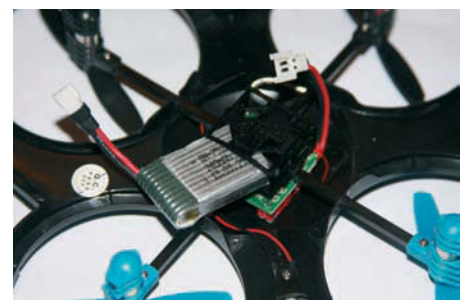
Be sure to read the user guide and the warning notes completely before attempting to fly your quadcopter the first time.

This Gravit Micro Quad' is extremely robust and has extremely stable flight characteristics due to the four drive systems and standard gyro system, which makes it very easy to handle even for a novice, and is ideal for all pilots with some flight experience also.

My first test flight was outdoors on a clam day just to get used to the handling (indoors is a bit cluttered for this). Once the Tx and quad were switched on it was time to lift off, and by gently opening the throttle the little Gravit wobbled on the ground and lifted off gently to around 3 feet. This height is not ideal as the



Charging the two 2S 240 mAh LiPos at once from the little USB charger supplied



The small LiPo slides into the battery cradle mounted underneath



Once in the air keep to a height above 3 feet to avoid turbulence from the four rotors



The stability of the Gravit Micro makes flying indoors much easier, even for a young novice

Gravit is quite unstable in its own rotor wash even with the gyro working, so the next take-off was a little quicker and higher with more stable results.

One thing that did appeal to me was that it is possible to alternate between training and regular mode via the 2.4 GHz transmitter, making it easier for pilots with less experience to handle but still maintaining the thrill of flying a quad.

When switched to Mode 2 it's like switching off the rate controls on a fixed wing model and the quad becomes much more sensitive to the control inputs. At the push of a button impressive 360 degree flips can be performed,

“impressive 360 degree flips can be performed”

and in combination with the 360 Degree Advanced button these flips can be flown in any direction. This Advanced button is located on the top left of the Tx and within easy reach of most fingers during flight, with the results being quite spectacular to see.

Familiarisation of the button positions is important; during one of my flights I intended to turn on the light but went to the wrong side and flipped sideways at low level with the end result being a broken blade. Fortunately spare 'handed' blades are supplied for individual positions.

When familiar with the controls it becomes natural and you can fly tame in Mode 1 or for some real fun flying switch to Mode 2 and fly around fast and throw in some flicks and flips while doing so – this is most impressive!

Indoors my 6-year-old novice grandson took control (with a little help from his dad) and was able to fly in the dining room with an element of control – not bad for the first time!

Flying indoors is much calmer, but a restrictive room is not ideal. A large hall would be ideal and easier to fly around in, but I don't have one of those at hand.

Summary

The LRP H4 Gravit Micro Quadcopter is a true air-artist. It has a huge fun factor when doing the wildest air stunt manoeuvres, and

LEFT & BELOW: It all stores neatly in the small, protective box



Allow plenty of space around to flip the Gravit Micro – it is quick!

even pilots with just a little experience can control this micro quad because of the 6-axis gyro system and its four motors, but do not let the Gravit fly too high, too low or too close to any obstacles.

It is able to withstand a few hard knocks and will give you many hours of real fun flying, add to this that all individual parts are available as spares – it really is a 'flippin good flyer'! **Q&EFI**

Flight Specification

MODEL INFORMATION

Name: H4 Gravit Micro 2.4 GHz Quadcopter (#220701)

Manufacturer: LRP Electronic

Distributor: Spire Model Distribution Ltd

Price: £86.99

Model Type: Micro Quadcopter

Motors: Four micro brushed

Battery: Two 2S 240 mAh 25C LiPo

Construction: ARTF; shock-resistant synthetic plastic

R/C FUNCTIONS

- 1: Throttle
- 2: Roll
- 3: Pitch
- 4: Yaw
- 5: Mode (Rates) button
- 6: Flip 360 deg button
- 7: Advance 360 deg button
- 8: Headlight button

SPEC.

Rotor Span:	55 mm (2 ³ / ₁₆ ")
Canopy Diameter:	55.5 mm (2 ³ / ₁₆ ")
Overall Diameter:	190 mm (7 ¹ / ₂ ")
Flying Weight:	34 g (1.25 oz)

Contacts

LRP

www.lrp.cc

Spire Model Distribution Ltd

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