For any Smartphone up to 3.25” wide, and GoPro Hero 2, 3 & 4 with adapter
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>About the Dragonfly Handheld Stabilizer</td>
<td>2</td>
</tr>
<tr>
<td>What’s Included</td>
<td>2</td>
</tr>
<tr>
<td>Dragonfly Component Parts</td>
<td>3</td>
</tr>
<tr>
<td>Dragonfly Key Features</td>
<td>4</td>
</tr>
<tr>
<td>Using the Dragonfly Handheld Stabilizer</td>
<td>5</td>
</tr>
<tr>
<td>Battery Installation &amp; Charging</td>
<td>5</td>
</tr>
<tr>
<td>Attaching &amp; Using Your Smartphone in the Dragonfly</td>
<td>6</td>
</tr>
<tr>
<td>Attaching &amp; Using Your GoPro Camera in the Dragonfly</td>
<td>7</td>
</tr>
<tr>
<td>Rotate, Pitch &amp; Roll 3-Axis Stabilization</td>
<td>8</td>
</tr>
<tr>
<td>Cautions &amp; Warnings</td>
<td>8</td>
</tr>
<tr>
<td>Compatibility</td>
<td>8</td>
</tr>
<tr>
<td>FAQ &amp; Troubleshooting</td>
<td>9</td>
</tr>
<tr>
<td>Return Policy &amp; Limited Warranty</td>
<td>10</td>
</tr>
</tbody>
</table>
About the Dragonfly Handheld Stabilizer. This is a must-have accessory for anyone using their smartphone or GoPro camera to shoot video. Its innovative three-axis active gyro stabilization system uses quick-acting brushless motors, a precise gimbal design and sophisticated software and electronics to eliminate vibrations and to stabilize your camera’s pans, tilts and rolls. You can move your camera with the action, and take creative walking shots where the camera appears to “fly” in smooth continuous motion, turning your device into a professional filmmaking tool with movie-grade smooth and steady imagery.

An adjustable spring loaded mount makes the Dragonfly compatible with most smartphones and GoPro cameras (with the included GoPro adapter). It is perfect for weddings, events, real-estate, travel, sports, or for any video production requiring the camera to move along with the action.

Please read these instructions carefully before using the product. Follow the procedures described, in order to optimize the lifespan and functionality of the components.

Check to see that the following components are included in the packaging that the Dragonfly is shipped in:
- Dragonfly Handheld Stabilizer Unit (1)
- GoPro Mounting Adapter Kit (2)
- Three 3.7v Type 18350 Lithium-ion Rechargeable Batteries (3)
- Battery Charger (4) w/ USB to Mini-USB Charging Cable (not shown)
- Screw-in counterweight (5)
- Acessories bag (6)
- Soft carry case (7)
**Dragonfly Component Parts**

Handle—Soft padded grip for control and comfort (8)

Screw-On Battery Installation Cover/Power button (9)

Expandable Smartphone Mount (10)

Clamp adjustment (11)

GoPro Adapter Attachment Threads. (12)

Micro USB for firmware updates (13)

Counterweight Attachment Point (14)

Counterweight (use with larger smartphones) (15)

Front Alignment tab/stopper (16)

Stoppers to avoid cable twist inside unit (17)

Pan/Rotate Axis (18)

Pitch/Tilt Axis (19)

Roll Axis (20)
• The 3-Axis active gyro stabilizer ensures smooth and steady pans, tilts, rolls and walking shots (21), while its brushless motors ensure near silent operation.

• The Dragonfly Handheld Stabilizer is plug & play with no assembly required. Its gimbal control board is pre-tuned so no PID tuning is required.

• The adjustable spring loaded mount is compatible with most smartphones and GoPro Cameras (using the provided GoPro Mounting Adapter) (22).

• The black anodized aluminum construction of the Dragonfly unit means stylish looks and durable construction.

• The On/Off Power button located on the battery cap prevents accidentally turning the unit on or powering down during critical filming moments (23).

• The included long-lasting 3.7v lithium-ion rechargeable batteries, battery charger and USB charging cable (24) provide for hours of fun and enjoyable operation.
Battery Installation and Charging

The three provided rechargeable batteries insert easily into the base of the stabilizer. When inserting the batteries, make sure the positive raised end is facing in and the negative flat end is facing out toward the contact on the battery end cap (25). It is also important to make sure the battery cap is firmly tightened at the base of the stabilizer to ensure a good connection (26).

The provided battery charging unit attaches to any USB port, using the provided USB to mini-USB charging cable, for quick and easy charging (27). When uncharged batteries are placed in the charger unit, the indicator lights will show as red until batteries are fully charged, at which point they will turn blue. Press the batteries firmly into the charger to ensure they make firm contact at both ends (28). The negative flat end of the batteries should be placed against the spring in the charger while the positive raised end of the battery is snug against the opposite contact side.
Attaching and Using Your Smartphone with the Dragonfly

Attaching and using your smartphone with the Dragonfly is quick and easy.

1. First, rest the bottom of the handle on a flat surface. Rest the the Roll Axis Motor in the palm of your hand with all axis arms aligned. Place your thumb on the clamp adjustment and fingers on the flat surface of the control case to open the clamp (29). Make sure the phone camera lens is on the left side and facing forward when inserting.

2. Next, hold the unit up, making sure the front alignment tab is centered and check the horizontal balance. You will need to adjust the placement to achieve the best possible balance. The better balanced the unit is un-powered, the more reliably it will operate (30).

3. Power on the unit and hold the unit as level as possible (use a hard flat surface if available). If the unit does not balance, power off and reposition the device to better balance.

4. Once turned on, the stabilizing motor will work to maintain phone balance through pans, tilts, rolls and walking movements.

5. The maximum tilt angle for the stabilizing motor to operate properly is 45 degrees in either the left or right direction from center balance (31).

IMPORTANT:
For larger devices the counter weight (15) will need to be attached which prevents the axis arms from fully aligning while holding for mounting.

NOTE:
The clamp adjustment (11) should be oriented downward while operating.
Attaching and Using Your GoPro Camera with the Dragonfly

To use a compatible GoPro camera with the Dragonfly, you must use the provided adapter with the camera (32).

1. Insert GoPro into the Dragonfly’s adapter (33).

2. Lay the Dragonfly flat, place the camera inside the clamp and line up the holes of the adapter to the threads on the top of the fixed clamp grip and attach with the thumb screw (34).

3. Add foam block(s) between the adjustable clamp grip and adapter housing for extra stability and shock absorption (35).

4. Hold the Dragonfly up in a vertical position, making sure the front alignment tab is centered (the GoPro will not fully balance, and you may need to assist balancing during initialization) (36).

5. Press the power button on and stand the Dragonfly on a hard flat surface as a reference to reduce strain on the motors during initialization.

6. Once stabilized turn the Dragonfly 180 degrees with the lens facing your subject. The motors will maintain balance through pans, tilts, rolls and walking movements.
**Cautions & Warnings**

- When handling and operating your Dragonfly Handheld Stabilizer, always avoid violent motion as it could cause damage to the unit or disrupt the mounting of your device.
- The Dragonfly does not work underwater and is not waterproof, so you should avoid direct exposure to rain or water. It is also not sand-proof, so avoid getting dirt or sand on it as this could interfere with the smooth operation of the unit.
- Avoid using the Dragonfly in very windy conditions, as this will interfere with the smooth operation of the unit. Also avoid touching the gimbal with your hands or external objects while the motor is operating as this can cause undue stress on the system when it tries to counter the external force and rebalance the camera.
- Be very careful when using the Dragonfly at night or in low light conditions. It is easy to focus so much on what you are shooting that you don’t notice obstacles in your path. Plan your shots before shooting, so that you do not trip or fall over, or into, something along the way such as traffic or a water fountain. Be extra cautious when shooting on stairs or rugged terrain, whether in daylight or at night.
- If you plan to store your Dragonfly for an extended period of time, store it with batteries removed, in the soft case, in a dry or low humidity area.
- Do not use solvents or harsh cleaners of any kind on the Dragonfly unit. If it becomes dirty, use only a damp cloth or sponge with water to gently rub clean.

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**Compatibility**

Any smartphone up to 3.25" wide

GoPro Hero 2, 3 and 4 (with included adapter)
FAQ & Troubleshooting Your Dragonfly

- **After using my Dragonfly for a period of time, the motors start to jitter. Why is this?** Your batteries are most likely running low on charge and do not have enough power to run the motor properly.

- **How long do fully charged batteries last before needing recharging?** The batteries should last for approximately 90 minutes of use, before requiring recharging.

- **Why is the gimbal unit trembling after I install my smartphone and turn the unit on?** Before turning the unit on, make sure the smartphone is adjusted such that it is as close to a horizontal level/balanced position as possible. Holding the device upright with the base against a level flat surface will help ensure a good calibration. If it still does not stabilize turn off the Dragonfly and rebalance the device. This will provide the best performance while operating.

- **Is the Dragonfly compatible with larger smartphones?** Yes. You will need to add the counterweight to produce a proper balance. Note, that while the counter weight is attached the gimbal arms will not be able to fully collapse.

- **When would I need to use the provided counterweights and where do they attach?** If your smartphone is longer than normal or requires positioning of its camera lens such that it is difficult to achieve horizontal balance within the Dragonfly’s normal clamp range, you may need to counter the unusual positioning with more weight on the gimbal side of the unit. You can screw on the weight to the outside surface of the pitch axis of the gimbal.

- **My Dragonfly unit will not turn on. What is wrong?** First check that the batteries are charged. If they are not, place them in the battery charger and charge them until light in charger turns from red to blue. Next, make sure that the batteries were installed correctly with the positive (+) raised ends inserted first. Lastly, make sure that the battery end cap cover on the Dragonfly unit is screwed on tightly enough, until it will not tighten any further, to ensure a good connection for the batteries inside.
Unless otherwise noted this warranty agreement is the only warranty agreement between the parties. This agreement states the limits and association of risk between the two parties. By use of the Product and accessories the customer acknowledges understanding of this warranty and agreement and binding to the terms contained within.

Return Policy

- 30-day money back excluding shipping.
- A receipt dated within 30 days of purchase.
- All returns must be new, unused, and contain all original packaging, labels and accessories.
- The original product must be returned inside your shipping box.
- DJ suggests using a carrier that provides tracking and insurance. DJ is not responsible for lost shipments.

Warranty

Digital Juice, Inc. warrants all Digital Juice products purchased new by original owner to be free from defects in the material and workmanship under normal use for a period of 12 months from the date of purchase. Warranty is void when misuse or neglect is the cause. THIS WARRANTY IS VALID ONLY IN THE UNITED STATES AND CANADA.

Legal Indemnification

No other express warranty or guaranty, except as mentioned above, given by any person or entity with respect to Digital Juice products shall bind Digital Juice, Inc. This warranty supersedes all other warranties expressed or implied. NO IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLY TO DIGITAL JUICE PRODUCTS AND ARE HEREBY DISCLAIMED.

In the event of a possible warranty claim, the defective product must be returned to Digital Juice, Inc (hereafter “Digital Juice”). If proven
to be defective upon inspection, it will be exchanged for a new or comparable rebuilt product, as determined by Digital Juice and shipped back to the original purchaser. All shipping costs are the responsibility of the customer. Warranty replacement shall not extend the original warranty period of the defective Digital Juice Product.

The customer’s remedies with respect to defective Digital Juice Product and accessories shall be exclusively limited to the repair or replacement remedy as above provided and in no event shall Digital Juice be liable for loss of profits, revenues, savings, inconvenience, associated costs, expense for equipment or service, use of capital, facilities, services, storage charges, damage to property, or any other special, incidental or consequential damages caused by the use or misuse of, or inability to use, the Digital Juice Product or accessories, regardless of the legal theory on which the claim is based, and even if Digital Juice has been advised of such damages. In no event shall recovery of any kind against Digital Juice be greater in amount than the purchase price of the Digital Juice product sold by Digital Juice and causing the alleged damage.

Without limiting the foregoing, the purchaser assumes all risk and liability for loss, damage or injury to persons, animals or property arising out of use or misuse of, or inability to use, the Digital Juice Product and accessories. Digital Juice is not liable for third party claims. This limited warranty shall not extend to anyone other than the original purchaser of the Digital Juice product, or the person for whom it was purchased as a gift, and states your exclusive remedy. In no event shall Digital Juice be liable for incidental or consequential damages to the full extent such may be disclaimed by law.

Unless otherwise noted this warranty agreement is the only warranty agreement between the parties. This agreement states the limits and association of risk between the two parties. By use of the Product and accessories the customer acknowledges understanding of this warranty and agreement and binding to the terms contained within.