3rd Person Viewer

# Controller

<https://kai.vicara.co/home>

Preis 180.-

# Arduino-Drone

<https://www.youtube.com/watch?v=SC6Se_JBs7w&ab_channel=JoopBrokking>

|  |  |  |  |
| --- | --- | --- | --- |
| Was? | Bemerkung | Stücke | Preis / Stück |
| [STM32F103C8T6](https://www.dx.com/p/cortex-m3-stm32f103c8t6-stm32-development-board-w-swd-socket-st-link-v2-programmer-emulator-2055863?Utm_rid=78761898&Utm_source=affiliate) | Circuit Board | 1 | 9.5 |
| [MPU-6050 gyro / accelerometer](http://www.dx.com/p/gy-521-mpu6050-3-axis-acceleration-gyroscope-6dof-module-blue-154602?Utm_rid=78761898&Utm_source=affiliate) | Accelerometer mit Gyroscope, damit balanciert werden kann | 1 | 4 |
| [GPS module](http://www.dx.com/p/72-channel-u-blox-m8-engine-gps-module-for-fpv-multicopter-black-433057?Utm_rid=78761898&Utm_source=affiliate) | Gps, damit Drone kontrolliert selber fliegen kann | 1 | 23.5 |
| [Fernbedienung](https://www.dx.com/p/flysky-fs-t6-2-4ghz-6-ch-2-9-lcd-tx-transmitter-rx-receiver-radio-control-system-black-8-x-aa-2022380.html#.X5Rgpoj7SUk) | Zur Kontrolle der Drone, muss nicht unbedingt sein | 1 | 57.2 |
| [Resistoren](https://www.banggood.com/Wholesale-Geekcreit-600pcs-30-Kinds-Value-1-pencent-1-or-4W-Metal-Film-Resistor-Assorted-Kit-20pcs-Each-Value-p-53320.html?gmcCountry=CH&currency=CHF&createTmp=1&utm_source=googleshopping&utm_medium=cpc_bgs&utm_content=xibei&utm_campaign=xibei-ssc-ch-warehouse-all-0922&gclid=CjwKCAjwoc_8BRAcEiwAzJevtTJ6cawVdI4gdrQ8onBbERQ0wNfnhg_C12vc4pdN9rVbwOxja1k7shoCm5wQAvD_BwE&cur_warehouse=UK) | Wiederstände | 1 | 6 |
| [PCB Board](https://hobbycomponents.com/prototyping/48-double-sided-glass-fiber-prototyping-pcb-universal-board-3-x-7) | Falls nicht alles gelötet wird, kann damit das Board und die Widerstände geschaltet werden | 1 | 1 |
| LEDS | Für Anzeigen | 3 | 0.2 |
| [Rahmen](https://www.dx.com/p/replacement-pu-quadcopter-frame-airframe-kit-for-450-500-red-beige-multi-color-2056562.html#.X5Rig4j7SUk) |  | 1 | 17.2 |
| [Motoren](https://www.dx.com/p/a2212-1000kv-brushless-motor-w-30a-brushless-esc-1045-propeller-dji-f450-550-2060813.html#.X5RipIj7SUk) |  | 4 | 10 |
| [Batterie](https://www.dx.com/p/11-1v-2200mah-30c-li-polymer-battery-pack-for-450-helicopter-dji-phantom-1-450-quadcopter-2048977.html#.X5Riv4j7SUk) |  | 1 | 17.5 |
| [Batterie-Konnektoren](https://www.dx.com/p/10-pairs-amass-xt60-plug-connector-male-female-set-for-fpv-racing-quadcopter-multirotor-airplane-2013204.html#.X5RjSoj7SUk) |  | 1 | 9 |
| [Batterie-Ladegerät](https://www.dx.com/p/b3ac-7-4v-11-1v-2s-3s-lipo-balance-charger-black-2-flat-pin-plug-2018568.html#.X5Rj14j7SUk) | Hat US-Plug. Batterie und Komponenten vielleicht bei Fabian Lehmann anschauen? | 1 | 9.2 |
| [Arduino](https://www.dx.com/p/arduino-uno-r3-atmega328p-atmega16u2-development-board-with-usb-cable-2726792.html#.X5RpAIj7SUk) | Besser [esp8266](https://www.dx.com/p/esp8266-esp-12-nodemcu-lua-wifi-internet-things-development-board-esp8266-nodemcu-v3-wireless-module-for-arduino-compatible-black-2016051.html#.X5RpfYj7SUk) | 1 | 5 |
| [Display](https://www.pfdeal.com/products/niteo-lcd-1602-keypad-shield-extension-panel-for-arduino-due-uno-r3-mega2560-r3-duemilanove) |  | 1 | 4.3 |
| [Arduino Buzzer](https://www.dx.com/p/passive-buzzer-module-buzzer-module-for-arduino-2726939.html#.X5Rqo4j7SUk) |  | 1 | 3.7 |
| [Remote Control Barrier Switch](https://www.dx.com/p/315mhz-high-power-wide-voltage-dc-12v-48v-universal-industrial-remote-control-barrier-switch-2015884.html#.X5RqwIj7SUk) |  | 1 | 37 |

Hat noch keine Sensoren, keine Kamera, kann Verbindung zu externer Source aufnehmen, ist aber noch nicht inbegriffen.

Gesamtpreis: 245.-

# Raspberry-Drone

<https://dojofordrones.com/raspberry-pi-drone/>

|  |  |  |  |
| --- | --- | --- | --- |
| Was | Bemerkung | Stücke | Preis / Stück |
| [Navio](https://store.emlid.com/product/navio2?ref=11) | Autopilot for Raspian | 1 | 170 |
|  |  |  |  |

Gesamtpreis: Rund 400.-

# Raspberry-Drone

<https://www.heise.de/select/ct/2017/6/softlinks/ygst?wt_mc=pred.red.ct.ct062017.094.softlink.softlink>



Gesamtpreis: 175.-

# Arduino-Drone 2

<https://github.com/StefanScheunemann/Arduino-Drone#Teil>

|  |  |  |  |
| --- | --- | --- | --- |
| Was | Bemerkung | Stücke | Preis / Stück |
| [Rahmen](https://www.thingiverse.com/thing:264955#files) | Kann von Marco H gedruckt werden | 1 | Gratis |
| [Gyroscope](https://www.dx.com/p/gy-521-mpu6050-3-axis-acceleration-gyroscope-6dof-module-blue-2018592.html#.X5WOQoj0mUl) |  | 1 | 4 |
| [Kontroller-Chip](https://www.dx.com/p/esp8266-esp-12-nodemcu-lua-wifi-internet-things-development-board-esp8266-nodemcu-v3-wireless-module-for-arduino-compatible-black-2016051.html#.X5WQP4j0mUk) |  | 1 | 5 |
| [Motor+Propeller](https://www.dx.com/p/a2212-1000kv-brushless-motor-w-30a-brushless-esc-1045-propeller-dji-f450-550-2060813.html#.X5WObIj0mUk) |  | 4 | 10 |
| [Battery](https://www.dx.com/p/11-1v-2200mah-30c-li-polymer-battery-pack-for-450-helicopter-dji-phantom-1-450-quadcopter-2048977.html#.X5WOsIj0mUk) |  | 1 | 17.5 |
| [Batterie-Ladegerät](https://www.dx.com/p/b3ac-7-4v-11-1v-2s-3s-lipo-balance-charger-black-2-flat-pin-plug-2018568.html#.X5WOzoj0mUk) |  | 1 | 9.2 |

Preis: 80.-

|  |  |  |  |
| --- | --- | --- | --- |
| Was | Bemerkung | Stücke | Preis / Stück |
| [Sensor 360grad](https://www.seeedstudio.com/RPLiDAR-A1M8-360-Degree-Laser-Scanner-Kit-12M-Range.html) | Raum-Messung in horizontaler Ebene | 1 | 100.- |
| [Infrarot-Sensoren](https://www.dx.com/p/new-gp2y0e03-450cm-distance-sensor-module-infrared-ranging-sensor-module-high-precision-i2c-output-for-arduino-2728265.html#.X5Wauoj0mUk) | Sensoren für vertikale ebene | 4 | 8.5 |

Preis: 134.-

|  |  |  |  |
| --- | --- | --- | --- |
| Was | Bemerkung | Stücke | Preis / Stück |
| [Handschuh-Controller](https://kai.vicara.co/home) |  | 1 | 180.- |
| [Kamera mit esp](https://www.dx.com/p/esp32cam-wifi-module-esp32-serial-to-wifi-esp32-cam-development-board-5v-bluetooth-with-ov2640-camera-module-2718066.html#.X5WdLYj0mUk) |  | 1 | 12.5 |

Gesamt-Preis: 406.5