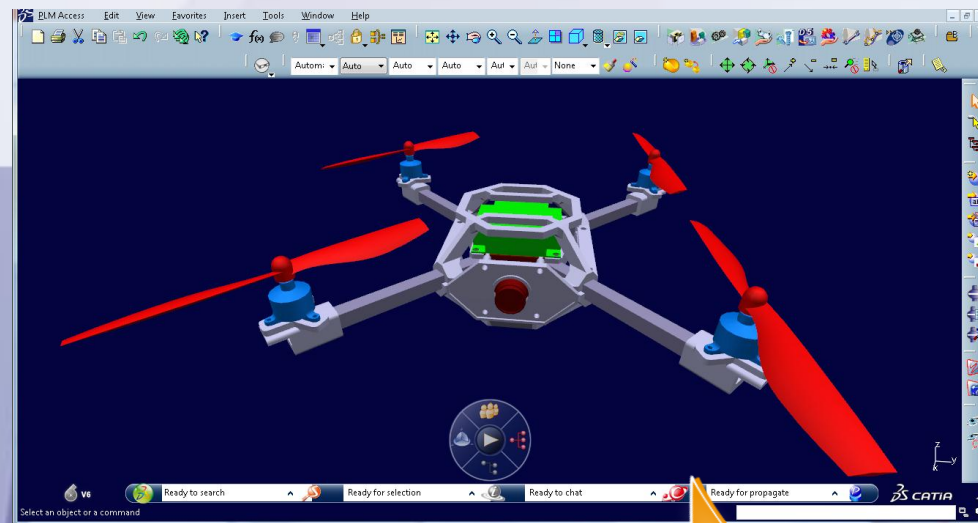


Quadcopter Experience

Build your own quadcopter

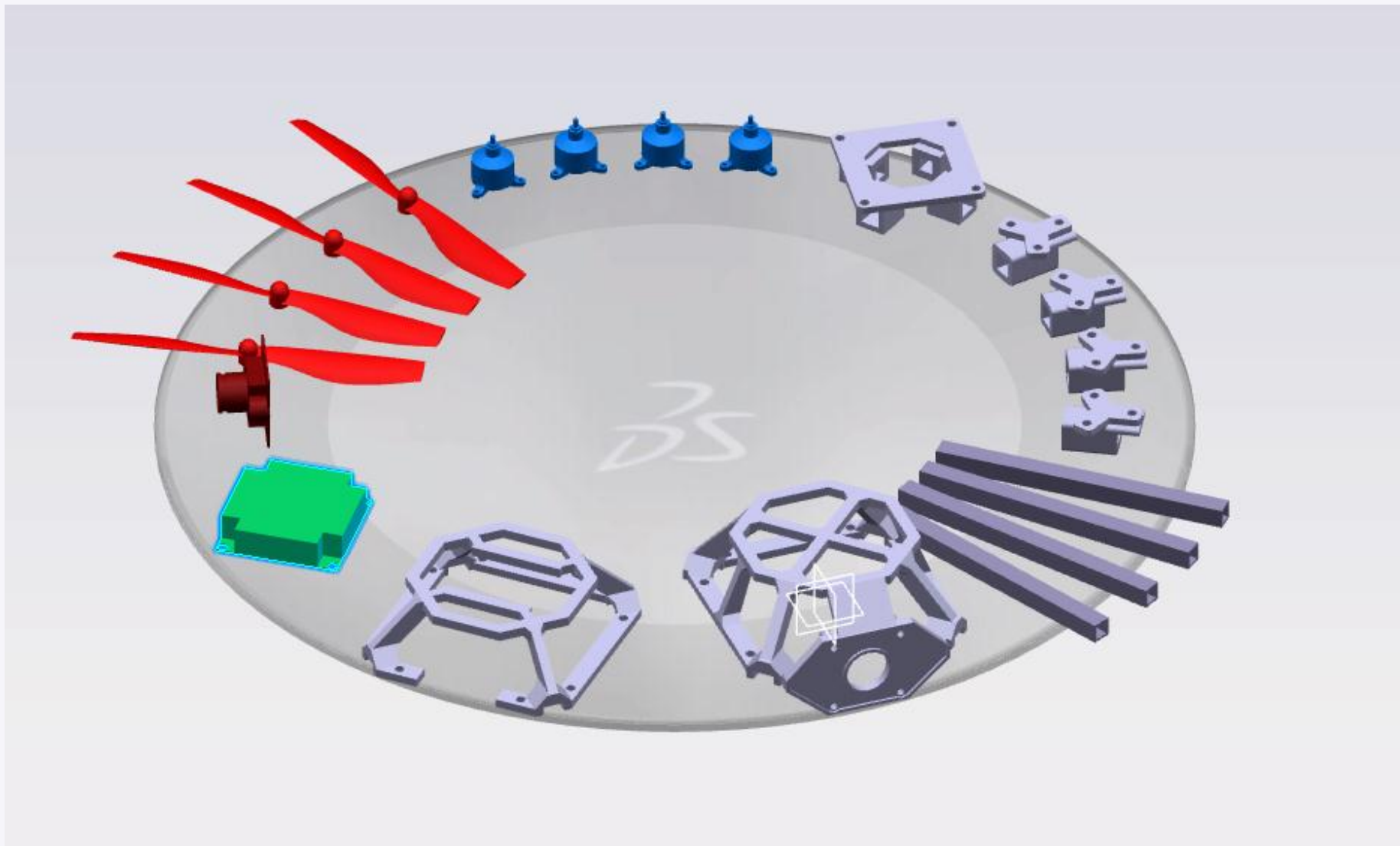


How to build your own quadcopter?

The following information will help you build your own quadcopter.

In this repertory you will find:

- ▶ What is a quadcopter?
- ▶ A list of websites on which you can buy all the model components (both required and optional)
- ▶ Links to video tutorials explaining how to assemble the different components of a quadcopter



What is a quadcopter?

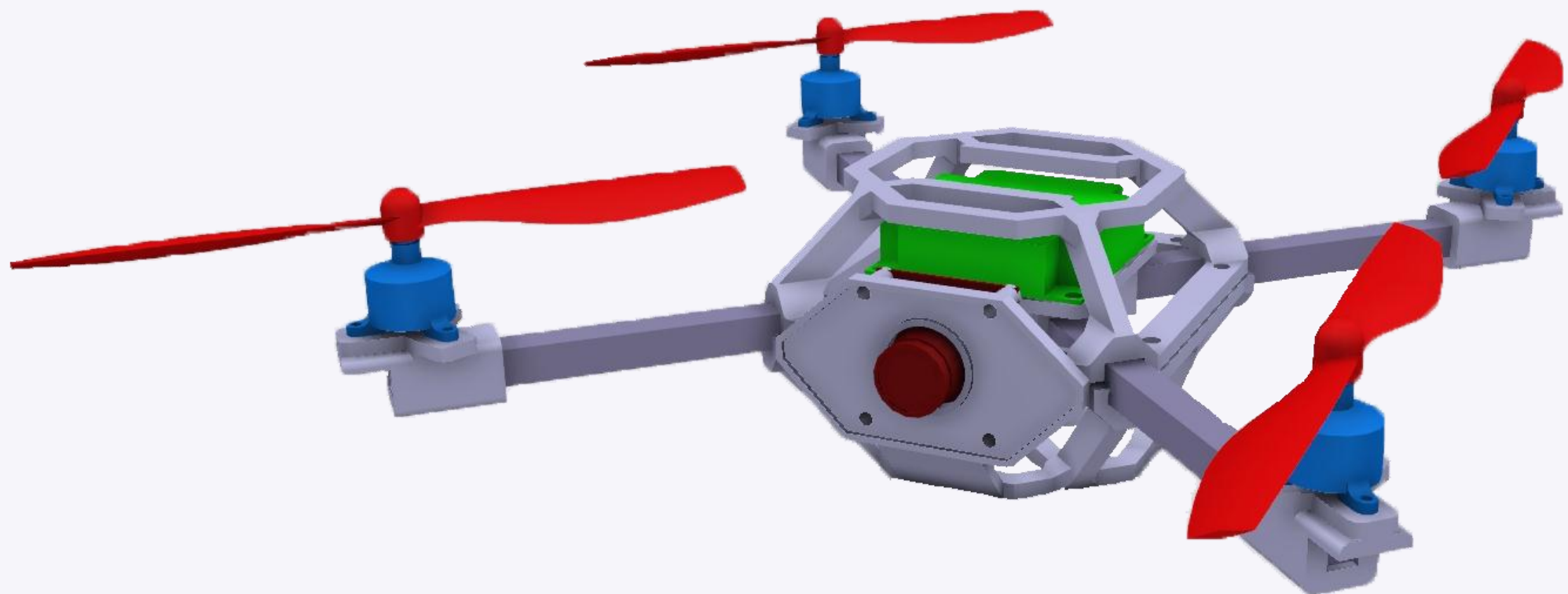
A quadcopter is a flying device lifted by four rotors mounted on each axial end. It is often used for model aircraft projects.

► HowStuffWorks

<http://www.howstuffworks.com/innovation/science-questions/nano-quadrotor.htm>

► Wikipedia

<http://en.wikipedia.org/wiki/Quadcopter>



Where to buy the required components?

- ▶ Brushless Motor (x4)

http://www.hobbyking.com/hobbyking/store/_7338_1404N_2290Kv_9_2g_3_5A_160g_Thrust_Outrunner.html



- ▶ Speed controller (x4)

http://www.hobbyking.com/hobbyking/store/_4318_TURNIGY_Plush_6A_8bec_6g_Speed_Controller.html



- ▶ Control board

http://www.hobbyking.com/hobbyking/store/_24723_Hobbyking_KK2_0_Multi_rotor_LCD_Flight_Control_Board_.html



- ▶ Battery

http://www.hobbyking.com/hobbyking/store/_7305_Rhino_610mAh_2S_7_4v_20C_Lipoly_Pack.html



- ▶ Radio controller

http://www.hobbyking.com/hobbyking/store/_8991_Turnigy_9X_9Ch_Transmitter_w_Module_8ch_Receiver_Mode_1_v2_Firmware_.html



- ▶ Carbon fiber square tube (x8 1m)

http://www.flashrc.com/graupner/2987-tube_carbone_carre_8x8mm_1m.html



- ▶ Battery charger

http://www.flashrc.com/a2pro/10842-chargeur_ap681blc_80w_12v_220v_a2pro.html



Where to buy the optional components?

With these optional components, you will be able to install a camera on your quadcopter and watch what it records.

- ▶ Videocamera (remove the two included servos)

http://www.flashrc.com/fat_shark/13440-camera_1_3_600tvl_cmos_v1_600_lignes_pan_tilt_avec_2_servos_fat_shark.html



- ▶ Video receptor

http://www.nghobbies.com/cart/index.php?main_page=product_info&cPath=1_10_82_131_132&products_id=473



- ▶ Video transmitter

http://www.nghobbies.com/cart/index.php?main_page=product_info&cPath=1_10_82_131_132&products_id=470



Or

- ▶ Video glasses (already include a receptor and a transmitter)

http://www.flashrc.com/fat_shark/11357-lunettes_immersion_video_fatshark_attitude_sd.html



Video tutorials on how to assemble a quadcopter

- ▶ BSK450 Quadcopter Part1 The Build (other parts online)
<http://www.youtube.com/watch?v=F3uHAJunC9o>
- ▶ Programming the KK2 Flight Control Card - Part I (other parts online)
http://www.youtube.com/watch?v=E_j-d2a-iUM
- ▶ HobbyKing Quadcopter KK Board setup guide
<http://www.youtube.com/watch?v=B6m49Cw3OFU>
- ▶ KK2 multirotor controller board from HobbyKing
<http://www.youtube.com/watch?v=P7yaZ74DSWQ>
- ▶ Basic Quadcopter Tutorial - Chapter 1 - Parts and Setup (other parts online)
<http://www.youtube.com/watch?v=NVxZE0CEUaA&list=PLC2B189F11B70606F>