References:

1. https://www.ez-robot.com/Tutorials/Help.aspx?id=160

2. https://www.ez-robot.com/Tutorials/Help.aspx?id=80

==============================================================================

Steps to create project in EZ-Builder

1. Open EZ-Builder
2. Project tab, Add Controls
   1. Third Party Robots, AR Parrot Drone Movement Panel
   2. Camera, Camera Device
3. Configure Camera GUI
   1. Device tab, Video Device drop-down, AR Parrot Drone
   2. Tracking tab, Tracking Types = Color
   3. Color tab, Red
   4. Settings (Camera Config GUI)
      1. Settings tab, Motion Delay = 200 ms, Allow fwd/left/right/up/down movement
4. Save project

==============================================================================

Steps to execute test using EZ-Builder

1. Conduct test in well-lit room for best results
2. Power on drone on level surface
3. Connect PC to drone via wifi
4. Open EZ-Builder
5. Load project created in previous steps
6. Options tab, press "Debug" (this will print status output to debug shell)
7. AR Drone GUI, press "Connect" button, text should change to "Disconnect"
8. Camera GUI,
   1. Device tab, Video Device drop-down, AR Parrot Drone (if not already selected)
   2. Device tab, press "Start" button (should see drones front camera image in GUI)
   3. Color tab, adjust tracking for red object (Object Brightness)
   4. Device tab, Video Recording, Start (logged to C:\Users\john\Pictures\My Robot Pictures)
9. AR Drone GUI, press "Take-Off"
10. Move red object in front of drone to demonstrate drones color tracking capability
11. End of test
    1. Camera GUI, Device tab,
       1. Video Recording, press Stop button
       2. Video Device, press Stop button
    2. AR Drone GUI, press Disconnect button
    3. Disconnect PC from drone wifi network
    4. Power down drone

==============================================================================

Test results

1. AR Drone demonstrated capability to track a mobile target.
2. See 2015-10-26 17-24-38 Proof-of-Concept.wmv