

User guide set param and create map

1. Set param ardupilot

- CAM1_TYPE = 5 (Mavlink V1)
- MNT1_TYPE = 6 (Mavlink V2)

2. Create a map with command control Payload

- Below is an example for reference only

	Command	P1	P2	P3	Yaw	Lat	Lon	Alt	Frame	Delete	Up	Down	Distance	Radius
1	NAV_TAKEOFF	0.0	0.0	0.0	0.0	34.9686389	136.9803456	50.00	Rel	Delete	+	-	0.0	0.0
2	NAV_WAYPOINT	0.0	0.0	0.0	0.0	34.9688644	136.9802125	50.00	Rel	Delete	+	-	0.0	0.0
3	DO_MOUNT_CONTROL	-45.0	0.0	20.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
4	IMAGE_START_CAPTURE	0.0	0.0	1.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
5	NAV_WAYPOINT	0.0	0.0	0.0	0.0	34.9688653	136.980325	50.00	Rel	Delete	+	-	0.0	0.0
6	DO_MOUNT_CONTROL	-20.0	0.0	0.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
7	DO_DIGICAM_CONTROL	0.0	0.0	0.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
8	NAV_WAYPOINT	0.0	0.0	0.0	0.0	34.9687456	136.9803279	50.00	Rel	Delete	+	-	0.0	0.0
9	DO_SET_CAM_TRIGG_DIST	2.0	0.0	1.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
10	DO_MOUNT_CONTROL	-90.0	0.0	-20.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
11	NAV_WAYPOINT	0.0	0.0	0.0	0.0	34.9687474	136.9803964	50.00	Rel	Delete	+	-	0.0	0.0
12	NAV_WAYPOINT	0.0	0.0	0.0	0.0	34.9688673	136.9803949	50.00	Rel	Delete	+	-	0.0	0.0
13	NAV_WAYPOINT	0.0	0.0	0.0	0.0	34.9688679	136.9804648	50.00	Rel	Delete	+	-	0.0	0.0
14	DO_MOUNT_CONTROL	0.0	0.0	0.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
15	DO_SET_CAM_TRIGG_DIST	0.0	0.0	1.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0
16	NAV_RETURN_TO_LAUNCH	0.0	0.0	0.0	0.0	0	0	0.00	Abs	Delete	+	-	0.0	0.0

2.1 Capture Image

- The user can use 1 of 3 commands below to trigger an image when flying a mission

Command	Param 1	Param 2	Param 3	Param 4
DO_DIGICAM_CONTROL	---	---	---	---
IMAGE_START_CAPTURE	---	interval	photo count	---
DO_SET_CAM_TRIGGER_DIST	distance	shutter	trigger	---

2.2 Control gimbal

- The user can use 1 of 2 commands below to control the gimbal when flying a mission

Command	Param 1	Param 2	Param 3	Param 4
DO_MOUNT_CONTROL	pitch	roll	yaw	---
GIMBAL_MANAGER_SET_PITCHYAW	pitch angle	yaw angle	pitch rate	yaw rate

Revision #5
Created 3 April 2024 02:57:21 by Lam Huynh
Updated 3 April 2024 05:36:58 by Duong Nguyen