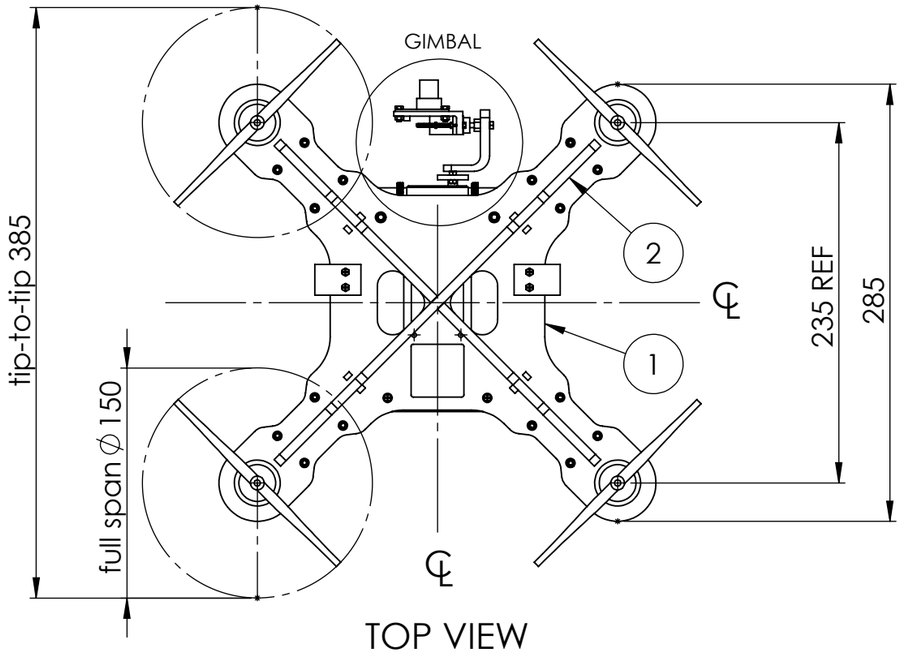
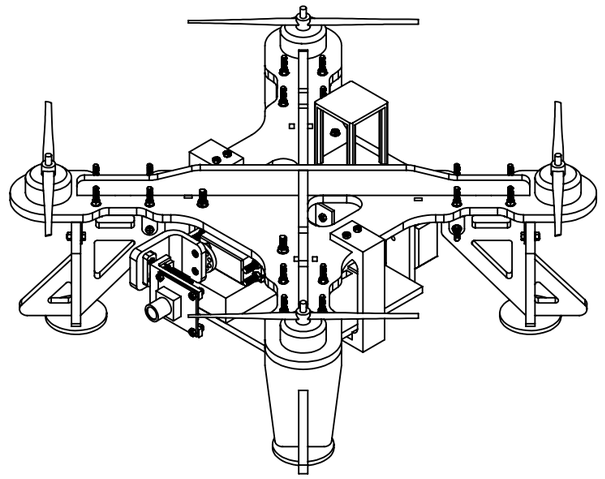
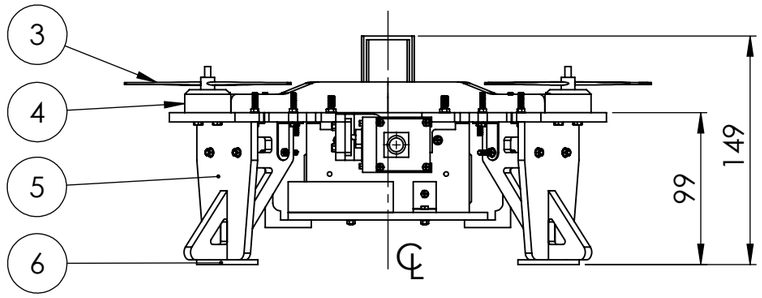


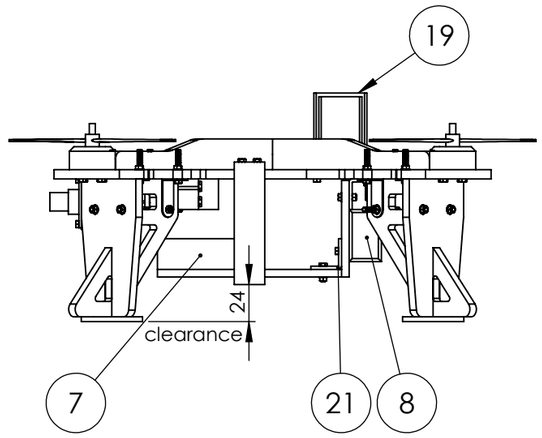
TOP VIEW



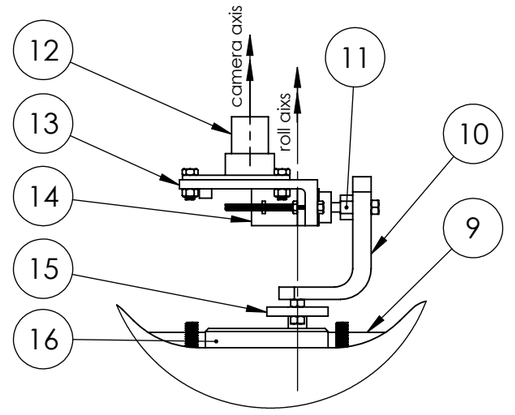
ISOMETRIC VIEW



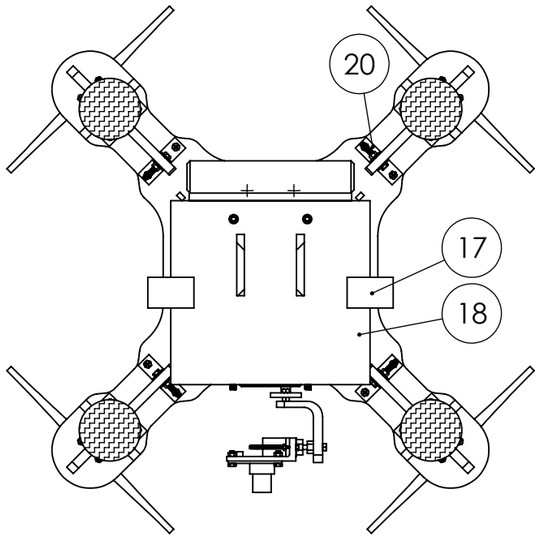
FRONT VIEW



RIGHT VIEW



DETAIL: GIMBAL
SCALE 1 : 2



BOTTOM VIEW

Bill of Materials (BOM) kindly refer to back page due to spatial constraints.

DO NOT SCALE		DRAWN BY: Group 11		TOLERANCES UNLESS OTHERWISE STATED: LINEAR DIMENSIONS X = +/- 0.5mm, X.X = +/- 0.25mm, X.XX = +/- 0.1mm; ANGULAR DIMENSIONS X = +/- 0.5mm, X.X = +/- 0.25mm; ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED	UNIVERSITY OF Southampton, Faculty of Engineering and Physical Sciences
A3		DESIGNED BY: Group 11			
EDMC JOB No: —	DEPARTMENT: FEPS	DATE: 18 April 2022	SCALE: 1 : 4		TITLE: ASSY, Quadcopter Drone
PROJECT: FEEG2001	SUPERVISOR: —	MATERIAL: Refer to BOM	TEXTURE: —	SURFACE FINISH: ALL OVER UNLESS OTHERWISE STATED	
REMOVE ALL SHARP EDGES / IF IN DOUBT PLEASE ASK		THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF THE UNIVERSITY OF SOUTHAMPTON DO NOT COPY WITHOUT WRITTEN PERMISSION.		SHEET: 1	No OFF: 1 / ASSEMBLY NUMBER: A0 / DRAWING NUMBER: A0 / REVISION: 3

ASSY, Quadcopter Drone — Bill of Materials (BOM)

No.	Description	Part Drawing Number	No. Off
Parts			
1	Arm	P1	1
2	SUBASSY, Rib	A1	1
3	Propeller blade	P2	4
4	Motor	P3	4
5	SUBASSY, Landing gear	A2	4
6	Rubber pad	P4	4
7	Arduino and data logging shield	P5	1
8	Li-Po battery	P6	1
9	Servo mount	P7	2
10	Servo housing (roll)	P8	1
11	Servo horn (pitch)	P9	1
12	Camera	P10	1
13	Camera housing	P11	1
14	SG90 micro servo 9g	P12	1
15	Servo horn (roll)	P13	1
16	MG995 servo	P14	1
17	Tray holder	P15	2
18	SUBASSY, Tray	A3	1
19	Receiver/Transmitter	P16	1
Fasteners			
20	Angle bracket α (10 mm x 14 mm x 25 mm)	F1	16
21	Angle bracket β (15 mm x 18 mm x 20 mm)	F2	4
22	Bolt (Allen) M3 x 20 mm	F3	16
23	Bolt (Phillips) M2 x 5 mm	F4	4
24	Bolt (Phillips) M2 x 30 mm	F5	2
25	Bolt (Phillips) M3 x 8 mm	F6	4
26	Bolt (Phillips) M3 x 10 mm	F7	22
27	Bolt (Phillips) M3 x 20 mm	F8	26
28	Bolt (Phillips) M4 x 30 mm	F9	4
29	M2 nut	F10	2
30	M3 nut	F11	52
31	M4 nut	F12	6
32	M3 washer	F13	36
33	M4 washer	F14	2

Assembly number: A0
Revision: 3

REMARKS (for internal use only)

Prepared by:

Audited by: