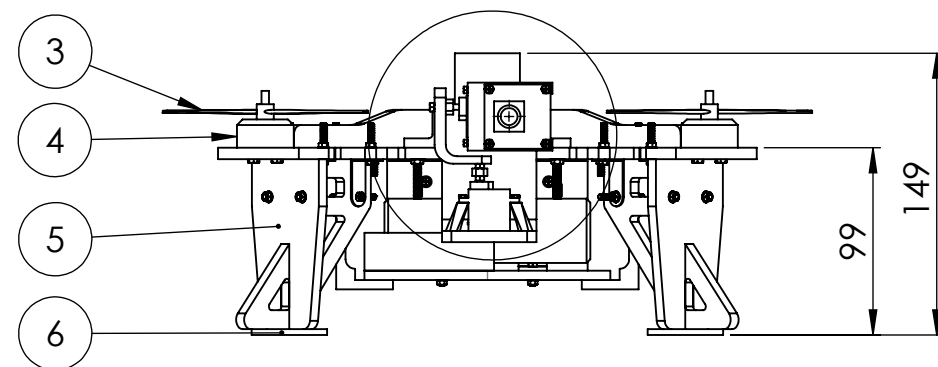
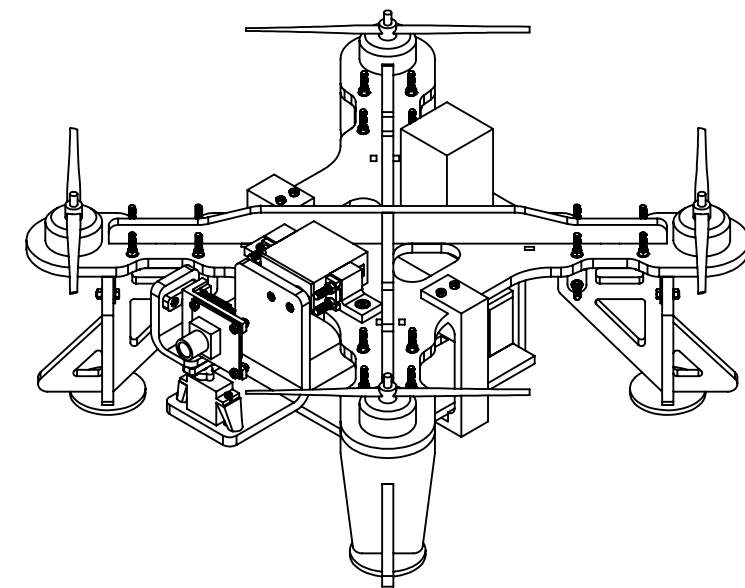
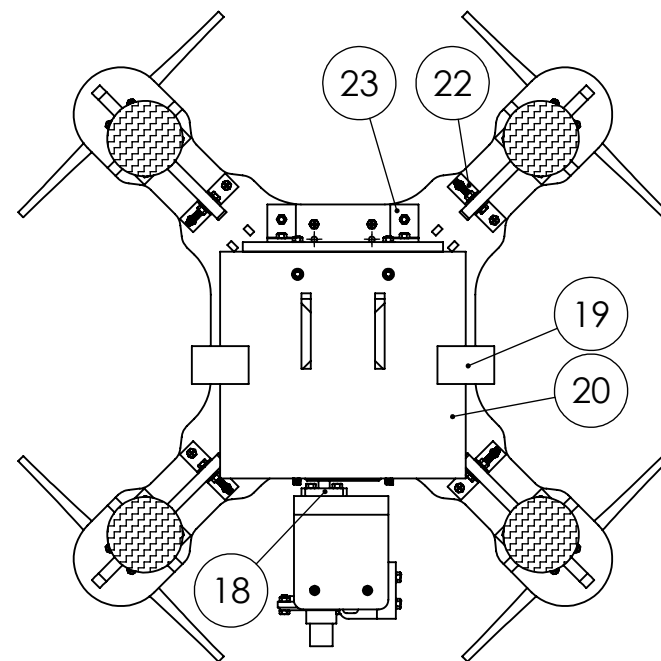


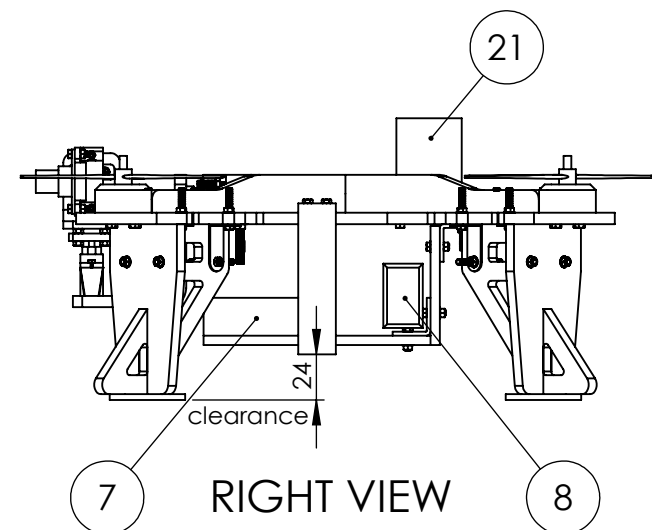
TOP VIEW



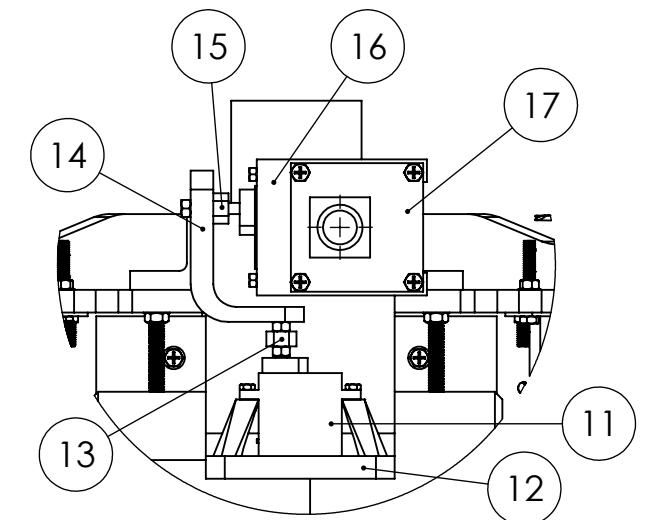
FRONT VIEW



ISOMETRIC VIEW

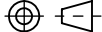


RIGHT VIEW



DETAIL: CAMERA  
SCALE 1 : 2

Bill of Materials (BOM) table kindly refer externally due to spatial constraints. For precise dimensioning kindly refer to the corresponding part/subassembly drawings.

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		<div>UNIVERSITY OF <b>Southampton</b> Faculty of Engineering and Physical Sciences</div>				
A3		DESIGNED BY Group 11								
EDMC JOB No —	DEPARTMENT FEPS	DATE 15 April 2022	SCALE 1 : 4			TITLE				
PROJECT FEEG2001	SUPERVISOR —	MATERIAL Refer to BOM	TEXTURE —	SURFACE FINISH <input checked="" type="checkbox"/> ALL OVER UNLESS OTHERWISE STATED		ASSY, Quadcopter Drone				
REMOVE ALL SHARP EDGES		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 2
IF IN DOUBT PLEASE ASK										

### 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	MG995 servo	P8	1
11	SG90 micro servo 9g	P9	2
12	Servo housing (roll)	P10	1
13	Servo horn (yaw)	P11	1
14	Servo housing (yaw)	P12	1
15	Servo horn (pitch)	P13	1
16	Camera housing	P14	1
17	Camera	P15	1
18	Servo horn (roll)	P16	1
19	Tray holder	P17	2
20	SUBASSY, Tray	A3	1
21	Receiver/Transmitter	P18	1
Fasteners			
22	Angle bracket $\alpha$ (10 mm x 14 mm x 25 mm)	F1	16
23	Angle bracket $\beta$ (15 mm x 18 mm x 20 mm)	F2	4
24	Bolt (Allen) M3 x 20 mm	F3	16
25	Bolt (Phillips) M2 x 5 mm	F4	4
26	Bolt (Phillips) M2 x 30 mm	F5	2
27	Bolt (Phillips) M3 x 5 mm	F6	1
28	Bolt (Phillips) M3 x 8 mm	F7	4
29	Bolt (Phillips) M3 x 10 mm	F8	24
30	Bolt (Phillips) M3 x 20 mm	F9	26
31	Bolt (Phillips) M4 x 30 mm	F10	6
32	M2 nut	F11	4
33	M3 nut	F12	52
34	M4 nut	F13	6
35	M3 washer	F14	40
36	M4 washer	F15	2

REMARKS (for internal use only)

Prepared by:

Audited by: