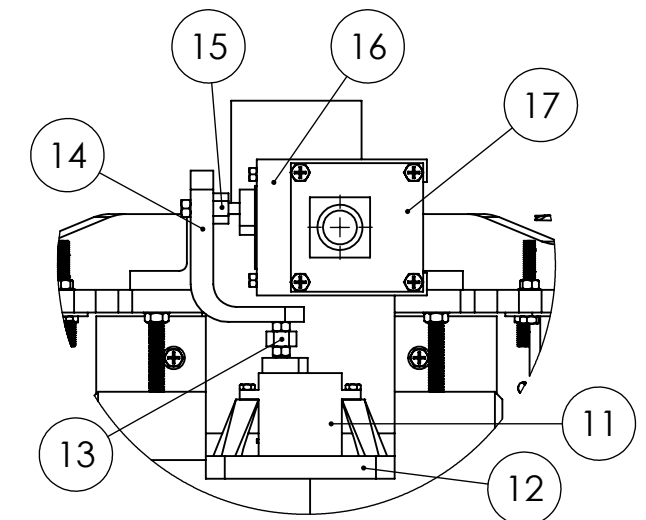
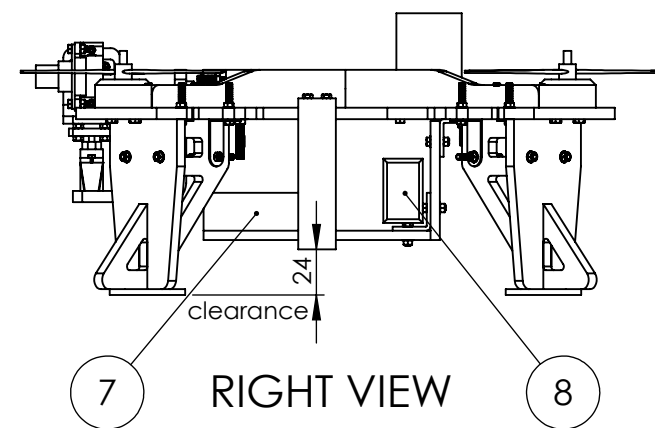
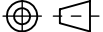


ISOMETRIC VIEW



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</div> <div>Southampton</div> <div>Faculty of Engineering and Physical Sciences</div>				
A3		DESIGNED BY Group 11								
EDMC JOB No —	DEPARTMENT FEPS	DATE 13 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		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 1
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
Fasteners			
21	Angle bracket α (10 mm x 14 mm x 25 mm)	F1	16
22	Angle bracket β (15 mm x 18 mm x 20 mm)	F2	4
23	Bolt (Allen) M3 x 20 mm	F3	16
24	Bolt (Phillips) M2 x 5 mm	F4	4
25	Bolt (Phillips) M2 x 30 mm	F5	2
26	Bolt (Phillips) M3 x 5 mm	F6	1
27	Bolt (Phillips) M3 x 8 mm	F7	4
28	Bolt (Phillips) M3 x 10 mm	F8	18
29	Bolt (Phillips) M3 x 20 mm	F9	26
30	Bolt (Phillips) M4 x 30 mm	F10	6
31	M2 nut	F11	4
32	M3 nut	F12	52
33	M4 nut	F13	6
34	M3 washer	F14	40
35	M4 washer	F15	2

REMARKS (for internal use only)

Prepared by:

Audited by: