

ACCIDENT

Aircraft Type and Registration:	DJI Matrice 210	
No & Type of Engines:	4 electric motors	
Year of Manufacture:	2018 (Serial no: 0KGDF89DP100GF)	
Date & Time (UTC):	18 March 2019 at 2010 hrs	
Location:	Lathbury Road, Manchester	
Type of Flight:	Emergency services operations	
Persons on Board:	Crew - N/A	Passengers - N/A
Injuries:	Crew - N/A	Passengers - N/A
Nature of Damage:	Extensive damage	
Commander's Licence:	Not applicable	
Commander's Age:	Unknown	
Commander's Flying Experience:	33 hours (of which 33 were on type) Last 90 days - 17 hours Last 28 days - 9 hours	
Information Source:	Aircraft Accident Report Form submitted by the pilot	

The operator prepared the unmanned air system (UAS) for flight and all indications were normal. Once airborne, at a height of approximately 2 m, the operator released the control stick and there was an immediate high pitch noise from the SUA¹, which “wobbled”. The operator increased the power to gain additional height but the SUA made a similar noise, slewing sideways and striking the ground upside down.

The manufacturer reviewed the flight data and concluded that one of the motors failed.

Refer to report on DJI Matrice 210 - EW/C2019/03/02 in this AAIB Bulletin 1/2020 for information on other accidents involving the DJI Matrice 210 and Safety Recommendations concerning the safe operation of a UAS near to people and congested areas.

Footnote

¹ A SUA is defined by the Air Navigation Order (ANO) 2016 (Amendment 13 March 2019) as ‘any unmanned aircraft, other than a balloon or a kite, having a mass of not more than 20 kg without its fuel, but including any articles or equipment installed in or attached to the aircraft at the commencement of its flight.’ This meaning includes traditional remotely controlled model aeroplanes, helicopters or gliders, as well as multirotor ‘drones’ and remotely controlled ‘toy’ aircraft.