

ACCIDENT

Aircraft Type and Registration:	DJI Matrice 210 (UAS, registration n/a)	
No & Type of Engines:	4 DJI 3515 Electric motors	
Year of Manufacture:	2017 (Serial no: 0G0DF6G0230142)	
Date & Time (UTC):	28 July 2019 at 0300 hrs	
Location:	Bury Road, Chedburgh, Suffolk	
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:	Destroyed	
Commander's Licence:	Not Applicable	
Commander's Age:	55 years	
Commander's Flying Experience:	23 hours (of which 18 were on type) Last 90 days - 3 hours Last 28 days - 2 hours	
Information Source:	Aircraft Accident Report Form submitted by the pilot	

The DJI Matrice 210 quadcopter small unmanned aircraft (SUA) ¹ was being operated at night over a small industrial estate in light rain. About 20 minutes into the flight the aircraft dropped suddenly without warning from a height of 70 m (230 ft). The aircraft hit the corrugated roof of a building and was destroyed; there was some impact damage to the roof.

The remains of the aircraft were sent to the manufacturer for examination. They determined that the accident was caused by a propulsion error of the No 2 motor but were unable to determine the reason for it.

Refer to report on DJI Matrice 210 - EW/G2019/03/12 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.