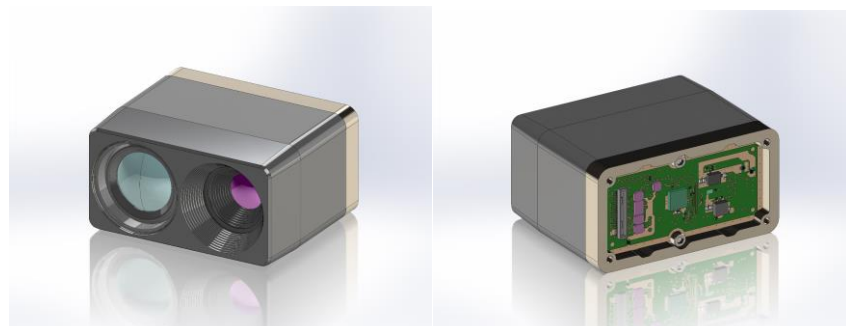


# Hadron summary datasheet

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Hadron is a dual camera IR+EO payload intended to be mounted on a small UAS gimbal.



This document	102-2035-xx_r100
Part number	70320A034-6C-12080
Size	24 x 45 x 36 mm
Weight	42.8g
Power	Typical < 1300mW, Max < 2820mW
Mechanical interface	Screw mount to back plate
Electrical interface	Hadron connector: Hirose DF40C-50DP-0.4V(51) Example of mating connector: DF40HC(2.5)-50DS-0.4V(51)
IR camera sensor	Boson 320x256 pixels, 12µm pitch, USB video and CCI
IR camera optics	EFL 6.3mm, 34° HFOV, F/# 1.0
IR camera video	Full resolution @ 60Hz or 30Hz
EO camera sensor	Sony IMX412, 4056x3040 pixels, 1.55µm pitch, 4-lane MIPI
EO camera optics	Sunny SYD1201A, EFL 3.7mm, 80° HFOV, F/# 2.8
EO camera video	Full resolution @ 60Hz See IMX412 datasheet for more options
IMU	ICM20602, I2C or SPI (selectable)
Operational and storage temperature	-20°C to +60°C
Tested EMI performance	FCC part 15 Class B

## Revision history

Revision	Date	Comment
100	2019-10-09	First version

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