

TO: Daniel Jacobs

FROM: Mickey Horn

DATE: August 18, 2017

SUBJECT: ECHO Drone v3

3DR X8-M (ECHO v2)

- Weight: 7.7 lbs
- Payload Capacity: 0.5 lbs
- Flight Time: 15 minutes
- Easy custom mounting
- Legs do not fold
- Arms do not fold
- Pixhawk autopilot
- Price: \$1300

StediDrone Vader X8

- Weight: 26.5 lbs
- Payload Capacity: 13.2 lbs
- Flight Time: 40 minutes (no payload)
- Unsure on custom mounting
- Legs fold up during flight, detach for storage
- Arms fold in for storage
- Pixhawk autopilot
- Price: \$15,000

xFold Travel

- Weight: 8.6 lbs
- Payload Capacity: 21.8 lbs (6.6 lbs is optimal)
- Flight Time: 15 minutes
- Easy custom mounting
- Legs fold up during flight
- Arms do not fold
- No autopilot mentioned
- Price: \$12,000

DJI Spreading Wings S1000+

- Weight: 9.7 lbs
- Payload Capacity: 14.6 lbs
- Flight Time: 15 minutes (11 lb payload)
- Easy custom mounting
- Legs fold up during flight, stay down for storage
- Arms fold down for storage
- A2 autopilot
- Price: \$1500

Freefly Alta 8

- Weight: 13.6 lbs
- Payload Capacity: 20 lbs
- Flight Time: 30 minutes (2 lb payload)
- Difficult custom mounting
- Legs fold up for flight and storage
- Arms fold in for storage
- Synapse autopilot
- Price: \$17,500

Memo #027

ECHO Project danielcjacobs.com/ECHO

ASU LoCo – MHz Astronomy Development Lab

Drone	Weight (lbs)	Payload (lbs)	Flight Time (min)	Mounting	Legs Fold	Arms Fold	Autopilot	Price
X8-M	7.7	0.5	15	Y	N	N	Pixhawk	\$1,300
S1000+	9.7	14.6	15	Y	Y	Y	A2	\$1,500
Vader	26.5	13.2	40	?	Y	Y	Pixhawk	\$15,000
Alta 8	13.6	20	30	N	Y	Y	Synapse	\$17,500
Travel	8.6	21.8	15	Y	Y	N	None	\$12,000