

brinc

TECHNOLOGY IN THE SERVICE OF PUBLIC SAFETY

31-MINUTE FLIGHT TIME

The LEMUR S's novel battery technology is based on a Lithium-ion chemistry and allows for a best in class flight time.

10-HOUR PERCH TIME

With nearly a half-day perch time, the drone can be operationally while Idle with fully-functional audio and video.

AIRFRAME SPECIFICATIONS

Fully enclosed props (enabling the drone to bounce off walls and to push open doors), carbon fiber reinforced nylon PA6 drone body/ducts, CNC machined carbon-fiber motor arms/duct frame.

Environmental

TWO-WAY COMMUNICATION

LEMUR S comes equipped with a powerful two-way communication system. Our drone is a flying cell phone.

Encrypted, near-zero latency, high material penetration wireless video transmission system with a line of sight transmission range in excess of 8mi (13km) and multi-receiver capability.

PAYLOADS

The LEMUR S can carry a wide variety of payloads. From hazmat operations to search and rescue missions the LEMUR S can be equipped to serve in many operations.

DOOR PUSHER

With the LEMUR S most interior doors are a minor inconvenience.

TURTLE MODE

Crashes don't end missions with our platform if the LEMUR S ends up on it's back, it can flip itself over and relaunch to finish a mission.

THE COMPANY

BRINC is an American technology company building a new class of drones to keep people safe in dangerous situations: First Response Drones. BRINC creates highly-reliable systems with the advanced ability to fly indoors and provide 2-way communication, to protect first responders, citizens, and our communities.

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Specifications

31-Minute Flight Time

The LEMUR S's novel battery technology is based on Lithium-ion chemistry and allows for a best-in-class flight time.

10-Hour Perch Time

With nearly a half-day perch time, the drone can be operational while idle with fully functional audio and video.

Battery

Can be charged to 90% in 45-minutes

Dimensions (L×W×H)

12.7 x 15.2 x 3.7in (32.4 x 38.6 x 9.6cm)

Weight

2.4lbs (1.1kg)

Operating Temperature

-20°F to 120°F (-29°C to 49°C)

Airframe Specification

Fully enclosed props (enabling the drone to bounce off walls and to push open doors), 3D printed carbon fiber reinforced nylon PA6 drone body/ducts, CNC machined prepreg carbon-fiber motor arms/duct frame

Max Speed

50mph (80.5km/h)

Maneuverability

Precise, high-performance maneuverability (3g maximum acceleration, 2G maximum vertical acceleration)

Two-Way Communication

LEMUR S comes equipped with a powerful two-way communication system. Our drone is a flying cell phone

Onboard Microphone

A set of two ultra-sensitive electret condenser microphones enable the drone to hear human voices, footsteps, and doors closing up to 100 feet away.

Day/Night-Vision System

Interchangeable camera payloads include a 1080p at 60fps high/low light capable camera sensor, wide FOV IR sensitive main lens, integrated night-vision optics switcher, integrated high-powered IR LEDs, ambient light sensor (automatically changes camera software settings to rapidly compensate to changing lighting conditions) the drone can see perfectly in every lighting condition, including truly zero light.

Video Transmission System

Encrypted, near-zero latency encrypted, high-material penetration wireless video transmission system with a line of sight transmission range in excess of 8mi (13km) and multi-receiver capability.

Local Video Storage

Onboard micro SD card slot for recording high-quality video and audio logs for evidence, 64GB Class 10 micro SD cards included and required for operation. Redundantly recording in VR headset.

Turtle Mode

Crashes don't end missions with our platform. If the LEMUR S ends up on its back it can flip itself over and relaunch to finish a mission.

Environmental

The LEMUR S is water-resistant, can be flown in high wind conditions, be flown underground, and can operate in extremely low and high temperatures.

Accessory Mount

Includes accessory mount that can accommodate a:

- Multi-purpose dropper attachment
- Floodlight attachment
- Window breacher attachment
- Droppable signal repeater
- Terrestrial robot landing strip with 3M VHB tape backing
- Made to order custom accessory

Controller

Proprietary handheld controller with CNC machined aluminum hall effect sensor gimbals, 7-inch built-in LCD screen, carbon fiber frame, thoughtful ergonomics, and a powerful, high-penetration RC transceiver.

VR Headset

Top-of-the-line VR headset peripheral for superior pilot emersion and focus in non-sterile operating environments (the drone can transmit video streams to multiple receivers, including VR headsets and/or command station monitors).

Drone Video Receiver

The video receiver/repeater box is a small form factor, magnetized Pelican case that can be easily attached to anything metal or mounted to a tripod. The box improves drone operating range/material penetration and transmits live video to command station displays.

Secure Data Links

Data only leaves the BRINC ecosystem when a physical connection is made to the hardware, further ensuring data security. All drone communications are secure and encrypted utilizing AES 128/ other confidential technologies.

MADE IN THE USA BY AN AMERICAN COMPANY

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Mavic 2 Enterprise Comparison



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Mavic 2 Enterprise
Da-Jiang Innovations

1	Flight time	31 minutes	19 minutes (speaker + prop guards attached to drone)
2	Standby/perch time	10 hours	3.5 hours
3	Interchangeable camera payloads	✓	
4	HD night vision system	✓	
5	Ability to flip itself over after crashes	✓	
6	Ability to push open interior doors	✓	
7	Water-resistant	✓	✓
8	Speaker	✓ *integrated	✓ *attachment
9	Microphone (enabling two-way communication between crisis negotiators and suspects through the drone)	✓	
10	Live cellular audio	✓	
11	Two-way communication system can patch multiple people into audio communications between first responders and people who need help.	✓	
12	Encrypted, near-zero latency, high-material penetration transceiver system	✓	
13	No phone apps required	✓	
14	No forced firmware updates	✓	
15	Designed to operate in GPS denied environments	✓	
16	Designed to operate in zero lighting environments	✓	
17	Operates in extremely tight/confined spaces	✓	

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Mavic 2 Enterprise Comparison



LEMUR S
BRINC



Mavic 2 Enterprise
Da-Jiang Innovations

18	Accessory mount	✓	✓
19	Ability to carry multiple payloads	✓	
20	Glass breaker attachment	✓	
21	Light attachment	✓	✓
22	General-purpose dropper attachment	✓	
23	External Video Receiver for getting high-quality streams to tactical commanders	✓	
24	Extended Range for allowing the drone to operate blocks away from its pilot	✓	
25	High signal penetration communications	✓	
26	Multi-receiver capability for sending video streams to multiple screens from the drone	✓	
27	Robust ducted airframe allowing the drone to bounce off walls instead of crashing + open doors	✓	
28	CNC machined carbon fiber frame	✓	
29	Operating temperature	-20°F to 120°F	14°F to 104°F
30	Battery charge time (90%)	45 minutes	1.5 hours
31	Max battery charge cycles	500	200
32	Max speed	50 mph	35 mph (when prop guards are installed)
33	Max signal range	8 miles	5 miles
34	Time required to get drone airborne	45 seconds	2-3 minutes
35	No automatic data uploading	✓	
36	American made and designed hardware and software	✓	