

**MAKING
IMPOSSIBLE
POSSIBLE.**



JOHNNETTE



“MESSAGE FROM THE CHAIRMAN”

Nowadays, citizens of the world have to face the darker side of evolution of emerging technologies surge in scale and sophistication of diversified safety threats. Such state of affairs places pressure on the defence industry and fuels our passion for innovation of Unmanned systems using artificial intelligence and deep learning. It is not in our power to negate threats, but within our expertise when utilizing our extensive skills and cutting-edge technologies to provide you with solutions against anticipated menaces.

Hence on behalf of Johnnette Group, I pledge to continue innovating for our valued customers and provide them with the most modern solutions.

Lt Cdr John Livingstone (R)
Founder and Global CEO
Johnnette Group

ABOUT JOHNNETTE GROUP

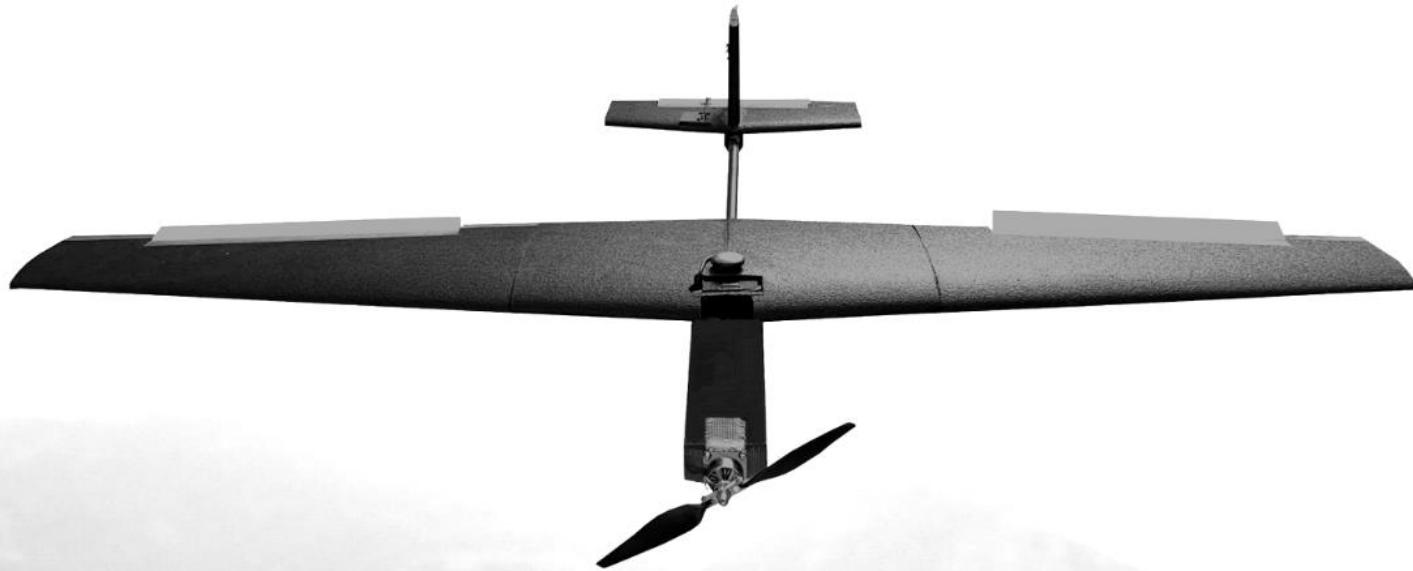
In 2010, the Johnnette Group was established. Recognized as one of the leading UAV manufacturers in India, Johnnette Technologies Pvt Ltd. (ISO 9001:2015 certified) was founded on November 10th, 2014, with a goal of serving the defense and aerospace industry.

The success of Johnnette's military innovations, which are deployed by the Indian Armed Forces and Paramilitary Forces, and exported internationally, is greatly attributed to our enterprise-level team spirit and customer-centric work culture. We concentrate on creating cutting-edge transformational technologies for the aviation industry in our R&D Center. Our workforce is exceptionally motivated and results-driven. The blending of R&D and manufacturing processes makes it possible for new ideas and designs to be conceptualized.

We are committed to maintaining and further developing our solutions to serve our customer's requirements better.

JOHNNETTE JF-2

TACTICAL C4ISR DRONE



GENERAL

Wingspan

2 m

Length

1.4 m

Height

30 cm

Aircraft Weight

3.2 Kg

Maximum Speed

60 km/hr

Propulsion

Electric

Material

EPP

PERFORMANCE

Cruise Speed

40 km/hr

Max Flight Altitude (AGL)

700 m

Max Launch Altitude

3000m ASL

Launch/Recovery

Hand Launch/ Belly
Landing

Operating Temperature

-10 ° to 45° C (Field Tested)

Endurance

60 min(max).

Data Link Range

Up to 12 km



FEATURES

Communication

HD Live Video Stream with Real-time data link

Payload Options

Gimballed 1080p Day Camera with 10x Zoom
640p Thermal Camera with 4x digital zoom
(Swappable Day and Night payload)

Failsafe

Return to Home on Low Battery and Communication Loss

Flight Modes

Assisted and Autonomous

Intelligent Ground Control Station

MIL Grade Ruggedized Laptop

Software

Johnnette GCS (Closed Source)



Day Payload



Hardware Parameter

Working voltage
12V

Input voltage
3S ~ 6S

Output voltage
5V (connect with PWM)

Operating Temperature
-20° to 60° C

Output
micro HDMI(1080P 60fps) /
IP (720P/1080P
25fps/30fps)

Control method
PWM / TTL / S.BUS /
TCP(IP output version)

Camera Spec

Imager Sensor
1/3" Panasonic CMOS
Sensor

Picture quality
Full HD 1080 (1920*1080)

Lens optical zoom
10x

Defog
Yes

Exposure
Mode / AGC / Shut Speed
/ Iris / DSS / Flickerless /
Brightness / WDR/BLC /
D&N

Camera Object Tracking

Update rate of deviation pixel
50Hz

Output delay of deviation pixel
<10ms

Minimum object contrast
5%

SNR
4

Minimum object size
32*32 pixel

Maximum object size
128*128 pixel

Tracking speed
±48 ~ ±192 pixel/frame

Thermal Payload



Hardware Parameter

Working voltage
12V

Input voltage
3S ~ 6S

Dynamic current
500mA @ 12V

Idle current
-20° to 60° C

Output
micro HDMI(1080P 60fps)
/ AV

Control method
PWM / TTL / S.BUS

Camera Spec

Lens size
19mm

Picture quality
Full HD 1080 (1920*1080)

Digital zoom
1x-4x

Working mode
Uncooled long wave
(8μm~14μm) thermal
imager

Detector pixel
640*480

Color palette
White, iron red, pseudo
color

Camera Spec

Detective Distance (Man: 1.8x0.5m)
559 meters

Recognize Distance (Man: 1.8x0.5m)
140 meters

Verified Distance (Man: 1.8x0.5m)
70 meters

Detective Distance (Car: 4.2x1.8m)
1714 meters

Recognize Distance (Car: 4.2x1.8m)
428 meters

Verified Distance (Car: 4.2x1.8m)
214 meters

Thermometry type
Temperature bar (psudo color display)
max temp, min temp, FOV center temp
(Optional)

Intelligent Ground Control Station (IGCS)



Specifications

Operating System

Windows 10 Pro
Windows 11 Pro

Mobile Computing Platform

Intel® Core™ i3-1115G4
Processor
Max. 4.1GHz with
Intel® Turbo Boost
Technology
- 6MB Intel® Smart Cache

VGA Controller

Intel® Iris® Xe Graphics
(i5/i7) ⁱⁱ
Intel® UHD Graphics (i3)
Optional:
NVIDIA® GeForce® GTX
1650 4GB discrete graphic
controller ^{iii, iv, v}

Display

14" TFT LCD HD (1366 x 768)
Protection film
1,000 nits display with
Getac sunlight readable
technology
Optional: 14" TFT LCD HD
(1366 x 768)
1,000 nits display with
Getac sunlight readable
technology and capacitive
multi-touch screen
Optional: 14" IPS TFT
LCD FHD (1920 x 1080)
1,000 nits display with
Getac sunlight readable
technology and capacitive
multi-touch screen

Storage & Memory

8GB DDR4

Features

Rugged Features

MIL-STD-810H certified
IP53 certified
Splash resistant keyboard
Vibration & 3ft (0.9m) drop resistant xiv
Sealed ports and connectors
Shock-protected removable SSD
8GB DDR4559 meters

Dimension (W x D x H) & Weight

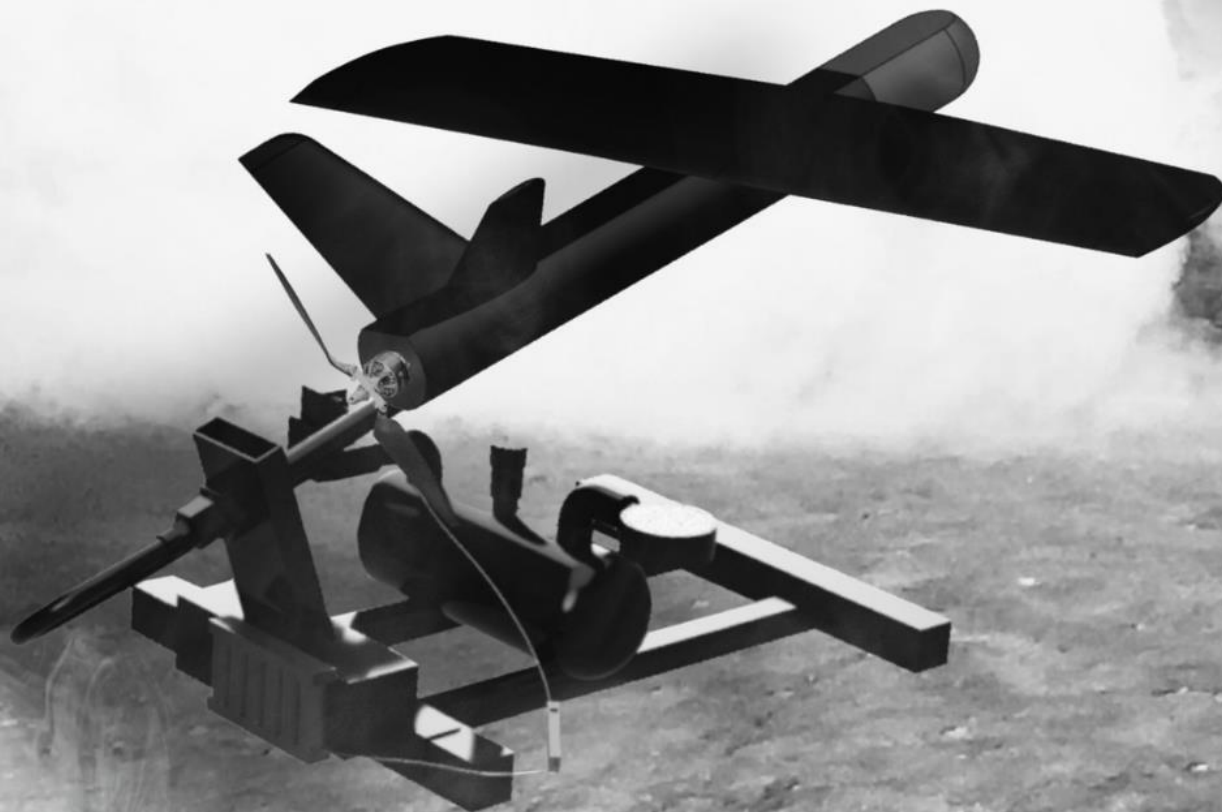
350 x 293 x 38.5mm (13.8" x 11.5" x 1.5")
2.38kg (5.25lbs)

Environmental Specifications

Temperature:
- Operating: -29°C to 63°C / -20°F to 145°F xvi
- Storage: -51°C to 71°C / -60°F to 160°F
Humidity:
- 95% RH, non-condensing

JOHNNETTE JM-1

LOITERING MUNITION



GENERAL

Wingspan

1.4 m

Length

1.5 m

Height

0.2 m

Aircraft Weight

3.5 Kg

Maximum Speed

140 km/hr

Propulsion

Electric

Material

EPP & Composite

PERFORMANCE

Cruise Speed

60-80 km/hr

Max Flight Altitude (AGL)

200 m

Max Launch Altitude

3000m ASL

Launch/Recovery

Cannister Launch/ Net
Recovery

Operating Temperature

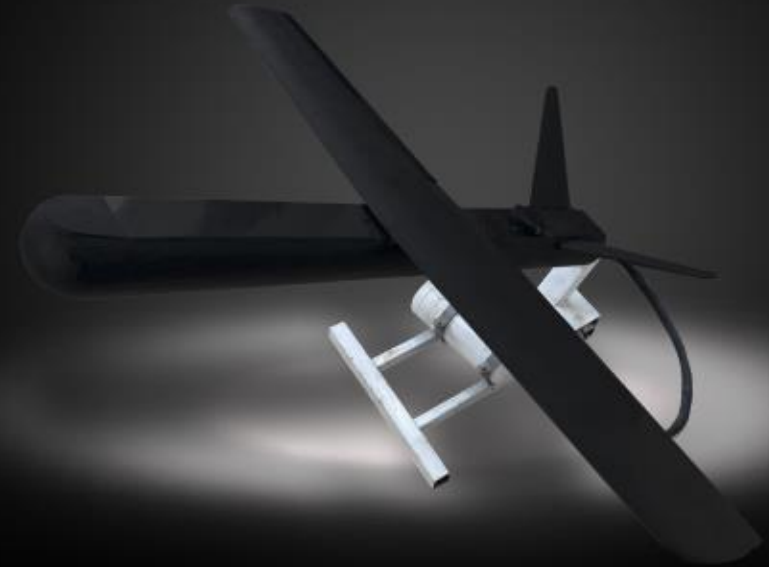
-5 ° C to 40° C (Field
Tested)

Endurance

30 min(max.

Data Link Range

05 km



FEATURES

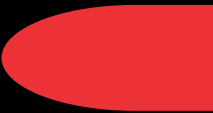
Pneumatic Canister Launch makes it easy to deploy

Low cost due to its expendable nature of operation to fire and forget

Highly affordable alternative to neutralize lightly armoured vehicles and enemy bunkers

Abort feature to reduce collateral damage

Low operational set up time making it easy and quick to deploy



Intelligent Ground Control Station



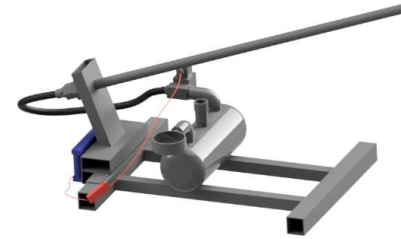
- Light, transported in a single backpack
- ruggedized touch screen tactical computer
- real-time data can be viewed and modified on the same screen as a map detailing the location, speed, and altitude.

Warhead



- HE fragmentation cum blast Warhead with Electronic fuze
- Proximity Air Burst or detonation on impact.

Pneumatic Launcher



- JM-1 is launched using a lightweight pneumatic catapult launcher
- Pneumatic launcher makes the launch of JM-1 fast and easy for the end user.

JOHNNETTE TECHNOLOGIES
Noida, India

JOHNNETTE MIDDLE EAST
Dubai, UAE



© Johnnette Group. All rights reserved.

www.johnnette.com