



# Autonomous Firefighting Drone FD-66P

## UAV Parameters:

1.Body material:	Carbon fiber aluminum alloy composite
2. Blade:	34-inch carbon fiber aluminum alloy composite paddle
3. Wheelbase:	72.8 inches
4. Empty machine weight:	50.7 pounds
5. Maximum payload:	66 pounds
6. Maximum take-off weight:	143 pounds
7. Elevation limit:	13,123.36 feet
8. Measurement and control link radius:	16404 feet (no
9. No load flight time::	45min
10. Flight time with standard load:	20min
11. Ascending speed:	196.85 inches per second
12. Cruise speed:	393.7 inches/second
13. Hover accuracy:	vertical ± 1.64 feet; horizontal ± 3.28 feet
14. Minimum launch pad area:	16.4 feet * 16.4 feet
15. Wind resistance grade:	Grade 6
16. Working temperature:	-4~to 140 degrees F
17. Battery:	: 12S 1.332KWh * 2
18. Protection level:	IP45

## Visible Light Pod

Product Parameters:	
1. CMOS size:	1 / 3 inch 4 megapixel CMOS SENSOR
2. Optical zoom:	10 x HD optical zoom lens, f=0.193 ± 10%~1.93 ± 10% inch
3. Video output:	Network output RTSP 1080P code stream and 480P code stream, local TF1080P storage
4. Field of view angle (FOV):	
Diagonal :	WIDE 66.6°±5% TELE 7.2°±5%
Horizontal :	WIDE 53.2°±5% TELE 5.3°±5%
Vertical :	WIDE 39.8°±5% TELE 4.2°±5%
5. Working mode:	Quick disassembly, three-axis increase stability
6. Support mode:	RTSP: 1080P 30fps
7. Weight:	0.7 pounds

## Laser Ranging Radar

Product Parameters:	
1. Working temperature:	-13~131 degrees F
2. Onboard operating voltage:	DC 7 to 50 V
3. Onboard current:	50 mA
4. Bullet-load working voltage:	DC 3 V
5. Bullet-load working current:	60 mA
6. Detating voltage:	DC to DC 14.5 V
7. Effective drop height:	16.4~1640.4 feet
8.Timing error:	± 2 msec
9. Elevation error:	1.64 feet
10. High-measurement refresh rate:	5 Hz
11. System start time:	0.5 seconds

## Equipped with K50 Fire Bomb

1. Agent type:	Water-based fire extinguishing agent
2. Capacity:	6.6 gallons
3. Delivery type:	vertical accurate delivery
4. Delivery accuracy:	6.56 * 6.56 feet
5. Mode of operation:	Air blast spray
6. Safety protection:	Triple safety redundancy protection
7. Control mode:	Blast height can be adjusted by the ground station
8. Fire extinguishing agent throwing radius:	49.21 feet
9. Fire extinguishing area:	1076 to 3329 square foot
10. Use temperature:	-4 to131 degrees F
11. Firefighting level:	4A / 24B
12. Response time:	5 minutes
13. Validity period:	2 years
14. Bullet length:	23.6 inches
15. Bullet diameter: 10.4 inches;	10.4 inches
16. Packaging size: 11 * 11 * 26 inches.	11 * 11 * 26 inches