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55mins Max  
Flight Time



15KM Video  
Transmission



5KG Max  
Loading



Strong Wind  
Resistance



RTK High Precision  
Differential Positioning



One-button  
Take off



Follow-Me  
Mode

# Z4B Industrial UAV System

## -Foldable design

The arms, tripod and propeller all adopt foldable design, it is designed for portable carrying and easy system maintenance

## -Long distance video transmission

Z4B is equipped with a high-definition image transmission module, which can perform real-time transmission of high-definition videos and photos, and the distance of image transmission is up to 15KM.

## -Long flight time

Z4B adopts high-power polymer lithium-ion batteries for power supply. In addition, the optimal design of the power system and various performance indicators of the complete set is provided. which make it possible to achieve 55mins hovering time.

## -Universal payloads

Z4B adopts open platform design, which make it possible to customize different payloads in various context. Besides, Z4B is compatible with infrared camera, visible light camera, 10X zoom camera, 30X zoom camera, flood light, megaphone and etc. Moreover, the quick release design of Z4B make it very convenient to assemble and disassemble.

## -High precision

Z4b supports RTK differential positioning, which makes it possible for the accuracy up to 0.1m

## -Max loading

5kg max loading



## Payloads



4K Camera (QYT003)



10X Optical Zoom Camera (GTZMHD-10X)



30X Optical Zoom Camera (GTZMHD-30X)



Infrared Camera (GTIR800)



Visible light&infrared&laser 3-in-1 camera



Megaphone



Floodlight



Gas Detector



### Infrared Camera (GTIR800)

- Two channels for infrared and visible light
- 800 x 600@25Hz, -20 ~ 150 °C temperature range
- 10 infrared pseudo-color mode transitions
- One button automatic focus and dedicated micro-focus
- In-screen display and camera switch. Supports infrared, visible light, infrared in-screen display, and visible light in-screen display modes
- Adjust infrared contrast brightness, achieve more real and exquisite image effect
- Optional assembly box, SBUS, PWM, multiple control interfaces

### 30X Optical Zoom Camera (GTZMHD-30X)

- 30X optical zoom, 4X digital zoom, zoom range 6~180mm
- 12 million pixels
- 4K@24fps HD video
- Semi-automatic focus, special micro focusing
- Three-axis stabilization, Image stabilization precision  $\leq 0.01^\circ$
- Optional assembly box, SBUS, PWM, multiple control interfaces

<b>Drone</b>		<b>Remote control</b>	
Weight (no payload)	$\leq 8400g$	Working frequency	2.4GHz
Max Loading	5000g	Signal effective distance	15KM (view without interference)
Wheelbase	1100mm	Working temperature	-10°C~50°C
Dimensions (unfolded)	1488*1488*740mm	Video/data interface	USB、HDMI、Type-C
Dimensions (folded)	467*468*572mm	Mobile device holder	Standard
Propeller	28 inch (carbon fibre)	Max width of mobile device	180mm
Max rotational angular velocity	100°/s	Working Power	0.5A
Max pitch angle	40°	Battery	5000mAh 2S LiPo
Max ascending speed	5m/s (sport mode)	Working voltage	8.4V
Max descending speed	3m/s	<b>Charger</b>	
Max horizontal flight speed	15m/S、54km/h (safety mode3/5M/s)	Input voltage	100-240V; 50-60Hz
Max take-off altitude	$\geq 4500m$	Output current	7.0A
Max flight altitude	500m	Charging circuit	Single output
Max wind-tolerance	Level 6	<b>Battery (normal temperature, high pressure)</b>	
Water-proof level	Normal flight under light raining	Battery capacity	15000mah
Working temperature	-10°C~50°C	Rated voltage	22.8V
Satellite positioning module	GPS/GLONASS/BEIDOU	Battery type	LiPo 6S
Hovering accuracy (P-GPS)	Vertical: $\pm 0.5m$ (RTK on: $\pm 0.1m$ ) ; Horizontal: $\pm 1.5m$ (RTK on: $\pm 0.2m$ )	Energy	342Wh
One-button/no signal/low battery return	Support	Weight	1650g
One-button take-off/one-button landing	Support	Working temperature	-10°C~50°C
Flight status feedback	Support	Charging temperature	0~40°C
Max hovering time	$\geq 55min$ (without payload) $\geq 50min$ (with 10x zoom camera)	<b>Visual System</b>	
<b>Payloads</b>		Ranging	TOF module
Gimbal	4K camera, 10x zoom camera, 30x zoom camera, infrared camera	Optical Flow	Optical flow camera, precise landing
Other payloads	Flood light, megaphone, gas detector	Smart recognition	Available to capture target characteristics
		Smart following	Available to follow target for a long time
		Positioning	Target positioning accuracy $\leq 30m$

## Application

