STEK GARUDA

Foldable Portability

Vision Positioning System

Open SDK

7KM HD Video Transmission

Intelligent Control

Obstacle Avoidance

Compatible Universal Payload

Max Take-off Weight

39min Max Flight Time

Description	Parameters
Dimension	745X555X225mm (Unfolded) 273X224X107mm (Folded)
Maximum Take-off Weight	3400g
Maximum Load	1000g
Maximum Horizontal Flight Speed	15m/s (Sport Mode, Sea Level/ No Wind)
Maximum Flight Altitude	3500m
Maximum Tolerable Wind Speed	10m/s
Maximum Flight Time	39 minutes (without payload)
Satellite Positioning Module	GPS/GLONASS Dual Mode
Hover Accuracy (GPS)	Vertical: ±0.5m (Downward vision system: ±0.1m) Horizontal: ±1.5m (Downward vision system: ±0.3m)
IP Protection Level	IP43
Video Transmission and Control Distance	7KM

STEK GARUDA

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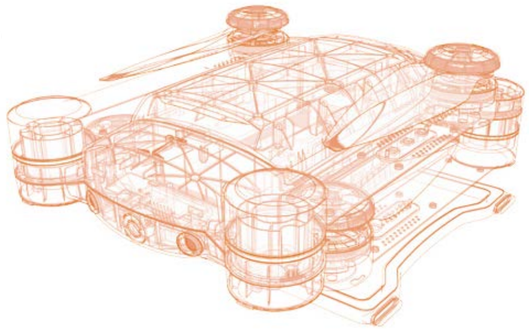
INDIA

Light Industrial UAV System

STEK | GARUDA

In Flight, Day and Night



High-performance industrial UAV within **Short Term**

GARUDA ıables you to have superior development and mass production capabilities. Make a special model of your own, apply it to various industries and solve users' problems easily.

Intelligent UAV platform integrating software and hardware

Qualcomm Snapdragon series processor

Fully opens all software and hardware interfaces and protocols

Modular intelligent mission loading system

Open Platform

Design Sharing
Autonomous and flexible design
- Open Appearance
- Open Source Software
- Open Payload
- Open Computing

Product Co-creation
Designed for you on demand
- Self-owned Brand
- Customized Development
- Joint Development

Win-win Cooperation
Complementary resources development
- Find Customers Together
- Serve Customers Together
- Uniform After-sales Service

Primary Open Model

Customize App's UI
Provide UI modification service of APP

Customize appearance painting and logo
Provide the selection of painting, customize appearance and logo

Independently develop special functional payloads
Provide interface specifications for partners to self-develop specific function mounts.

Independently develop professional application software
The partners use the open software SDK to develop professional apps independently.

Intermediate Open Model

Customize professional application software
Develop a dedicated APP, tailored to user's needs

Self-developed computing platform built-in application software
Provide interface specification, develop and implement the built-in application software of airborne computing units

Self-developed computing platform built-in algorithm
Partners independently develop embedded algorithms for specific functions that run on airborne computing units

Advanced Open Model

Customize special functional payloads
Develop specific functional mounts for partners

Custom airborne units built-in algorithms
Develops specific functional embedded algorithms for partners that run on airborne computing units

Collaborate on application development
Work with partners to develop specialized application systems with specific functions.

High Performance Payloads, Modularized Interfaces


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

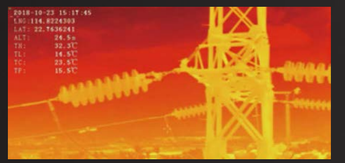

Megaphone


Floodlight


Gas Detector

4K Camera (QYT003)
- 12.4 million pixels
- 35mm (Equivalent focal lenth: 24mm)
- 4K@24fps HD video
- Three-axis stabilization, Image stabilization precision ≤0.02°
- 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@30fps HD video
- Semi-automatic focus, special micro focusing
- Three-axis stabilization, Image stabilization precision ≤0.01°
- Optional assembly box, SBUS, PWM, multiple control interfaces



Infrared Camera (GTIR800)
- Two channels for infrared and visible light
- 800 x 600@25Hz, – 20 ~ 150 ℃ 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

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QYT003–C 4k
4KC Camera

Compatible UAV

STEK GARUDA

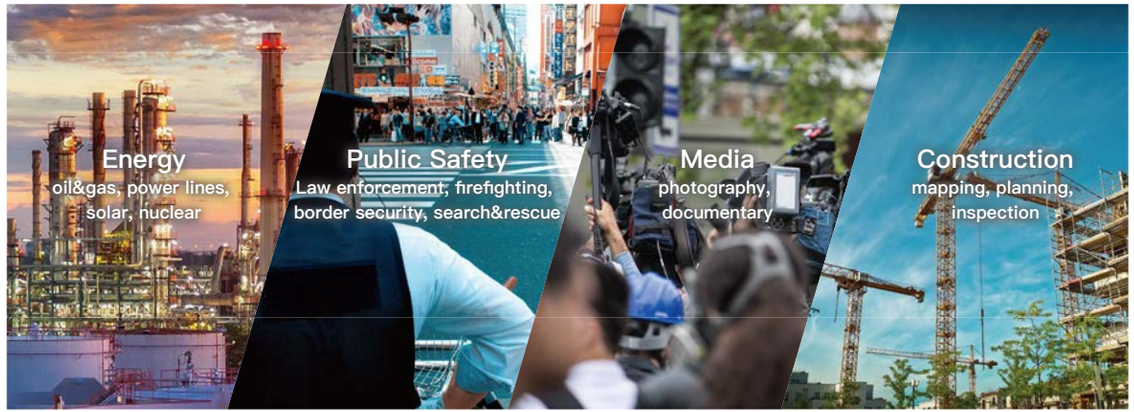
Features

13million effective pixels
25.5mm equivalent focal length
13million HD photo
3-axis stabilization, accuracy≤0.02°
Optional set box, SBUS, PWM,serial output and kinds of control interface

Introduction

QYT003-C 4K is mainly compatible with STEK GARUDA and other kinds of industrial drone. It's effective focal length is up to 25.5mm and the photo resolution is up to 13million pixels. By loading gimbal set box, it is compatible with other brands of drone. QYT003-C camera adopts brand new altitude integrated control algorithm.

Application



Tech Spec		
Model	QYT003-C	
Weight	< 255g	
Installation	Camera&gimbals integration, removable	
Output interface	40pin interface (including HDMI and serial port)	
Dimensions	120mm*87mm*110mm	
Gimbals		
3-axis stabilization system	Bearing,roll, pitch	
Structure limit	Bearing	-40°~ 40°
	Roll	-35°~ 35°
	Pitch	-120°~ 30°
Control angle	Bearing	-30°~ 30°
	Pitch	-90°~ 20°
Max rotational angle	Max speed 30° /s	
Stabilization performance	Stabilization accuracy	≤ 0.02°
Flight path follow rotation	Bearing angle transit with the drone's angle, roll and pitch angle is mainly for stabilization	
Camera		
Effective pixel	13million	
Lens	F2.2	
Focal length	Effective focal length	
FOV	FOV79.8°	
Photo resolution	13M：4208*3120	
Video resolution	FHD: 1920*1080 30FPS HD : 1280*720 30FPS	
Photo storage format	JPG	
Video storage format	MP4	
Work mode	Photo, video	
Photo mode	Single shoot	
Aerial surveying application	2D stitching, 3D modelling, panorama shoot	
ISO range	Auto, 100-3200	
Storage card type	MicroSD, 128GB max storage, Class10 transmission speed or MicroSD card with UHS-1 rating	
Compatible file format	FAT32	
Work temperature	-10℃ ~50℃	

Suitable for STEK Garduda UAV

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GTIR800

High resolution infrared camera

Compatible with STEK Garuda

- 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 wiring box, supporting SBUS, PWM and serial ports

Introduction

GTIR800 is compatible with the **STEK GARDURDA UAV** as well as other industrial UAVS. The infrared resolution and frame frequency are up to 800*600 @25HZ, supporting a variety of color modes with brightness contrast adjustment and other personalized functions. The camera can also support switching between visible and infrared light. The new position control algorithm is adopted to create a highly precise 3-axis stabilization gimbal. Stable images and video can be taken even during large maneuver flights with an angle jitter of ±0.02˚.

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GTIR800		
Weight	<470g (wiring box is not included)	
Ports	40pin port (including HDMI and series ports) or wiring box	
Dimensions	160mm×150mm×154mm	
Wiring Box		
Weight	30g	
Dimensions	50mm×50mm×19mm	
Ports	power, Micro HDMI, PWM, S-BUS, port, RS-422	
Gimbal		
3-axis Stabilization System	Yaw, Roll, Pitch	
Structural Limit	Yaw	-200˚~ 200˚
	Roll	-45˚~ 45˚
	Pitch	-135˚~ 45˚
Controllable Angle	Yaw	-180˚~ 180˚
	Pitch	-90˚~ 30˚
Maximum Rotational Speed	> 30˚/s	
Stabilization Performance	Stabilization Accuracy	⩽ 0.02˚
Flight Path Movement	Yaw follows the body angle, Pitch and Roll stabilize imaging	
Camera		
Resolution	Infrared	800*600@25Hz
	Visible Light	1280*720
Focal Distance	Infrared	20mm F1.2
	Visible Light	3mm F2.2
Image Modes	Infrared, visible light, infrared picture-in-picture, visible light picture-in-picture	
Zoom Mode	Infrared	One-click focusing, fine tuning focus +-
	Visible Light	One-click focusing
Photo Storage Format	Infrared: JPG, Visible Light: JPG	
Video Storage Format	Infrared: mp4、irgd, visible Light: mp4	
Photo Mode	Single shot, burst, long exposure, time-lapse	
Memory Card	MicroSD, can support 128G	
Supporting Files	FAT32	
Operating Temperature	-10℃ ~50℃	