



**IFT800  
TOMCAT**

MADE IN USA

## FEATURED PAYLOADS



Sony ILX-LRI | Gensy Pixy LR



Gensy VIO F1

## GROUND CONTROL STATION



HereLink Blue | Live Video GCS

## Aircraft Specifications

### Performance

Max Ascent Speed	5 m/s	16 ft/s
Max Descent Speed	3 m/s	10 ft/s
Max Air Speed	22 m/s	49 mph
Max Wind Resistance	10 m/s, 12 m/s gusts	19 knot, 23 knot gusts
Max Tilt Angle	30°	
Max Angular Velocity	Tilt: 300°/s, Yaw: 120°/s	
Operating Temperature	-10°C ~ 45°C	14°F ~ 113°F
Ingress Protection	IP43, 5%~99% Humidity	
Service Ceiling (with given payload)	4.2km (14,000 ft) w/0.0 kg, 2.0 km (6,500 ft) w/ 3.0 kg	3.2 km (10,500 ft) w/ 1.5 kg,

### Physical Features

Diagonal Size (propeller center to center)	905 mm	35.6 inches
Unfolded Size (flight ready, WxLxH)	132 x 114 x 52 cm	51.8 x 44.8 x 20.3 inches
Folded Size (stow, WxLxH)	36 x 44 x 20 cm	14.2 x 17.4 x 7.8 inches
Empty Weight (w/o batteries)	4.2 kg	9.2 lbs
Weight w/ Batteries	8.4 kg	18.5 lbs
Max Gross Takeoff Weight	11.4 kg	25.1 lbs
Max Payload Capacity	3.0 kg	6.6 lbs
Transport Case Size (WxLxH)	52.8 x 80.7 x 31.7 cm	20.8 x 31.8 x 12.5 inches
Transport Case Weight (w/ aircraft & GCS)	18 kg	40 lbs

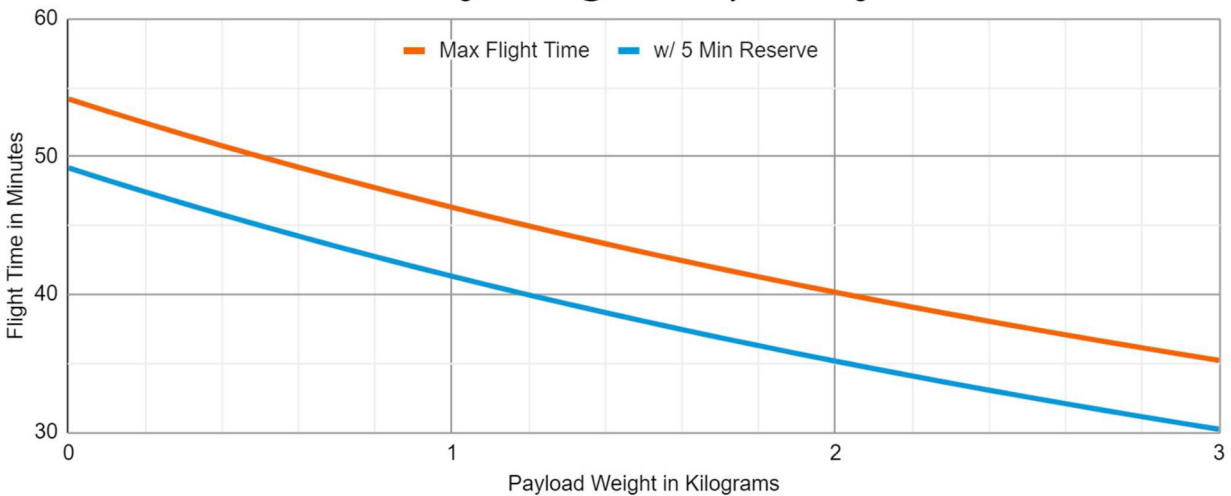
### Flight Stack

Flight Controller	CubePilot Cube Blue H7
GNSS / Compass	CubePilot Here4 (x2)
Downward Range Finder	LightWare SF000/B
Payload Power Rails	Battery Voltage, 18v, 12v, 5v,
Payload Interface	Ethernet, Serial_1, Serial_2, SBus_Out, PWM_1, PWM_2
Operating Software	Copter by Ardupilot

### Flight Modes

Position Hold	Automatically holds altitude and position, manually change position
Loiter	Holds altitude and position, precision manual movements using GPS
Auto	Executes pre-defined waypoint mission
RTL	Auto returns to takeoff location and lands
Land	Auto land while maintaining horizontal position
Altitude Hold	Holds altitude only, failsafe mode if GPS signal lost

IF800A Flight Time @ Given Payload Weight



IF800A Spec Sheet v1.1, 12/23 © Inspired Flight Technologies, Inc.

