

PRODUCT CATALOG

2027 EDITION

American-made drones that carry the sensor your work calls for, from survey-grade LiDAR to multispectral.

2 AIRCRAFT IF1200 · IF800	**2 CONTROLLERS** GS-ONE · HERELINK	**35+ PAYLOADS** 15+ PARTNERS	**SUPPORT** U.S. CREW



FLY THE HARD PART

Sheer cliffs, open water, unstable ground. Send the aircraft instead of the crew and bring back survey-grade data from the places that are hard to reach.

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BUILD YOUR SYSTEM

Your mission shapes the configuration. Choose each piece to meet your requirements.

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NOT SURE WHERE TO START?

Call us and we'll build the system around your requirements

(805) 457-9432 · inspiredflight.com/talk-to-an-expert



WHY INSPIRED FLIGHT

FOUR REASONS TEAMS SWITCH





01 EASE OF USE

Fly on day one, not week three

Folding airframes go from case to air in minutes. Payloads mount without tools, and the aircraft automatically updates its parameters. The GS-ONE will also feel familiar to pilots coming from DJI.

02 OPEN PAYLOAD SYSTEM

The largest payload selection on an American-made drone

35+ sensors from 15+ partners, each flight-tested on our aircraft, from compact cameras to heavy LiDAR and GPR. When your work moves to a new sensor, you stay on the same platform.





03 AMERICAN-MADE

Built and supported in the United States

Engineered and assembled in San Luis Obispo, California, with a supply chain built to meet NDAA requirements. That matters when federal grants or agency rules decide which drones you can buy.

04 U.S. SUPPORT

You can call and talk to our experts

Inspired Care, our protection plan, connects you with U.S. technicians backed by our engineers. The Elite tier adds one-hour response and covers your first replacement aircraft. Full details on page 22.

WHO WE SERVE

TRUSTED WHERE THE MISSION MATTERS

Universities, survey firms, state DOTs, utilities, and federal teams fly IFT aircraft where the data has to hold up.

2017 SAN LUIS OBISPO, CA	**BLUE UAS** DCMA CLEARED LIST	**100%** U.S. ENGINEERING	**1,000+** SYSTEMS DELIVERED



GEOSPATIAL & SURVEY

Corridor, topographic, and volumetric mapping at survey grade, with the endurance to cover large sites in fewer flights.



UTILITIES & ENERGY

Aerial live-line tooling, wire pulling, wire extraction, vegetation encroachment, and substation inspection for utility crews.



AGRICULTURE & RESEARCH

Multispectral and thermal crop health, phenotyping, and trait identification for growers, seed breeders, and university labs.



CIVIL & CONSTRUCTION

Earthworks and stockpile volumetrics, haul-road design, development site planning, and progress documentation.



PUBLIC SAFETY

Accident reconstruction, scene mapping, and situational awareness with rapid-deploy folding airframes.



FEDERAL

Blue UAS listed with the GS-ONE, for secure operations and range work. NDAA-compliant from supply chain to controller.

FLYING ON PROJECTS AT

John Deere · syngenta · California · Bayer Crop Science · SCDOT · KBR · Cal Poly · The University of Tennessee Knoxville · CDM Smith · UF University of Florida · ALDOT · Texas Tech University

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PROOF IN THE FIELD

CASE STUDIES BY INDUSTRY

Same platform, very different jobs. You'll find more customer stories at inspiredflight.com/blog.



GEOSPATIAL / LIDAR MAPPING

80 acres on the Willamette River in five days

Redefined Horizons captured 114 million LiDAR points in six flights over a Portland industrial site, cutting field time from weeks to five days. Their verdict: "The IF1200 is like a work truck."

IF1200 · Phoenix MiniRANGER-3 Lite

▶ **WATCH** — inspiredflight.com/post/lidar-mapping-along-the-willamette-river



UTILITY / TRANSMISSION

800-ft rope pulls across an active railyard

Quanta Aviation Services strung pilot rope between transmission structures without hand-rigging each one. Every drop landed on the first attempt, and crews stayed clear of active rail lines.

IF1200 · Linebird Osprey + Drop Kit

■ **READ** — inspiredflight.com/post/utility-line-installation-how-the-if1200-streamlines-rope-pull-operations



CIVIL ENGINEERING / DOT

Inspect the Entire Pavement Surface, Not Just a Sample

ALDOT mapped an Airport flying 30 mph at 100 ft for sub-¼-inch imagery. gNext software flagged cracking even inside existing patches, and the workflow is now rolling out to airports statewide.

IF800 Tomcat · Sentera 65R

■ **READ** — inspiredflight.com/post/reading-the-runway



PRECISION AGRICULTURE / RESEARCH

Spotting crop stress before it shows

In a baby lettuce field, chlorophyll and NDVI maps showed exactly which rows were stressed or growing unevenly, so the grower could act on those first.

IF800 Tomcat · Sentera 6X series

■ **READ** — inspiredflight.com/post/early-stage-crop-management

01 / CHOOSE YOUR AIRCRAFT

TWO AIRFRAMES: IF1200 & IF800

Start with what you're carrying. Payload weight decides most of this choice, and portability decides the rest.



HEAVY-LIFT HEXACOPTER

IF1200

The rugged, heavy-lift workhorse. Carry larger LiDAR or multiple sensors in one flight, mounted on the Smart Dovetail or universal mounting rails.

43 min	19.1 lb	56 mph
Max Flight	Max Payload	Max Speed



MEDIUM-LIFT QUADCOPTER

IF800 TOMCAT

Light enough for one person to transport, set up, and fly. Carries RGB, multispectral, thermal, and compact LiDAR.

54 min	6.6 lb	49 mph
Max Flight	Max Payload	Max Speed

CHOOSE THE IF1200 IF

Your mission needs maximum lift

- Your sensor weighs more than 6.6 lb.
- You want to fly more than one sensor at a time.
- Your sites see strong wind.
- Your payload needs more onboard power.

SEE THE IF1200 → PAGES 08-09

CHOOSE THE IF800 IF

Your mission needs to travel light

- You need a system that one person can deploy.
- Your sensor weighs 6.6 lb or less.
- Your team moves often between sites.
- You're replacing an M300 or M350.

SEE THE IF800 → PAGES 10-11

WHAT BOTH AIRCRAFT SHARE

Cleared for procurement
NDAA-compliant, Blue UAS, and Green UAS.

Made in the USA
Engineered, assembled, and supported in the U.S.

Inspired Ground Control
One flight app across both airframes.

Smart Dovetail
Tool-free payload swaps, plus a GNSS and RTK/PPK top mount.

IF1200 THE INDUSTRY WORKHORSE

BLUE UAS · NDAA COMPLIANT · MADE IN USA



Built for long days on rough sites, from freezing mornings to hot afternoons. Fly two or three sensors at once or the heaviest LiDAR in the catalog. At a full 19.1 lb payload, it still takes off within the FAA's 55 lb Part 107 limit.

43 MIN MAX FLIGHT	**35.9 LB** 16.3 kg FLIGHT WEIGHT
19.1 LB 8.7 kg MAX PAYLOAD	**23 KT** 12 m/s SUSTAINED WIND

COMMON USE CASES

Heavy LiDAR corridor survey · Infrastructure inspection · Terrain & stockpile mapping · Utility live-line work · Geophysical survey (GPR, magnetometry) · Multi-sensor research flights



CASE STUDY

Mapping to Support Flood Mitigation

Cal Poly flew LiDAR, RGB, and multispectral sensors at once over 8 km of San Luis Obispo Creek to inform the city's flood plan.

READ- inspiredflight.com/post/mapping-to-support-flood-mitigation-efforts

APPLICATIONS BY INDUSTRY

GEOSPATIAL / MAPPING · ENERGY & UTILITIES · CIVIL / CONSTRUCTION · ENVIRONMENTAL · PUBLIC SAFETY · RESEARCH · MINING

WHAT'S INCLUDED

IF1200 aircraft · Landing gear · Spare propellers (2) · USB charger · Transport case · Controller

Batteries & Charger sold separately; see page 20

PERFORMANCE

Max air speed	**25 m/s (56 mph)**
Max wind resistance	**12 m/s (26.8 mph)**
Operating temp.	**–20°C to 45°C (–4°F to 113°F)**
Service ceiling	**3.9 km w/ 4 kg**
Flight controller	**CubePilot Cube Orange+**
Payload power rails	**5 v, 12/15 v, 18 v, 44.4 v**

DIMENSIONS & WEIGHT

Diagonal size	**1,025 mm (40.4 in)**
Unfolded (W×L×H)	**165.5 × 154 × 76.5 cm**
Folded (stow)	**47.5 × 49.5 × 47 cm**
Weight w/ batteries	**16.3 kg (35.9 lbs)**
Max gross takeoff	**25 kg (55 lbs)**
Transport case	**64.8 × 64.8 × 58.4 cm**

IF1200

1 Top mount
For RTK/PPK modules, LiDAR GNSS antennas, and more

2 FAA-compliant strobe
Meets Part 107 lighting rules for night flights

3 Folding arms
Lock in place to fly, fold down for the case

4 Universal Payload Interface
12 mm rails for heavy LiDAR, GPR, and multi-sensor rigs

5 Carbon fiber arms & landing gear
Removable landing gear for storage

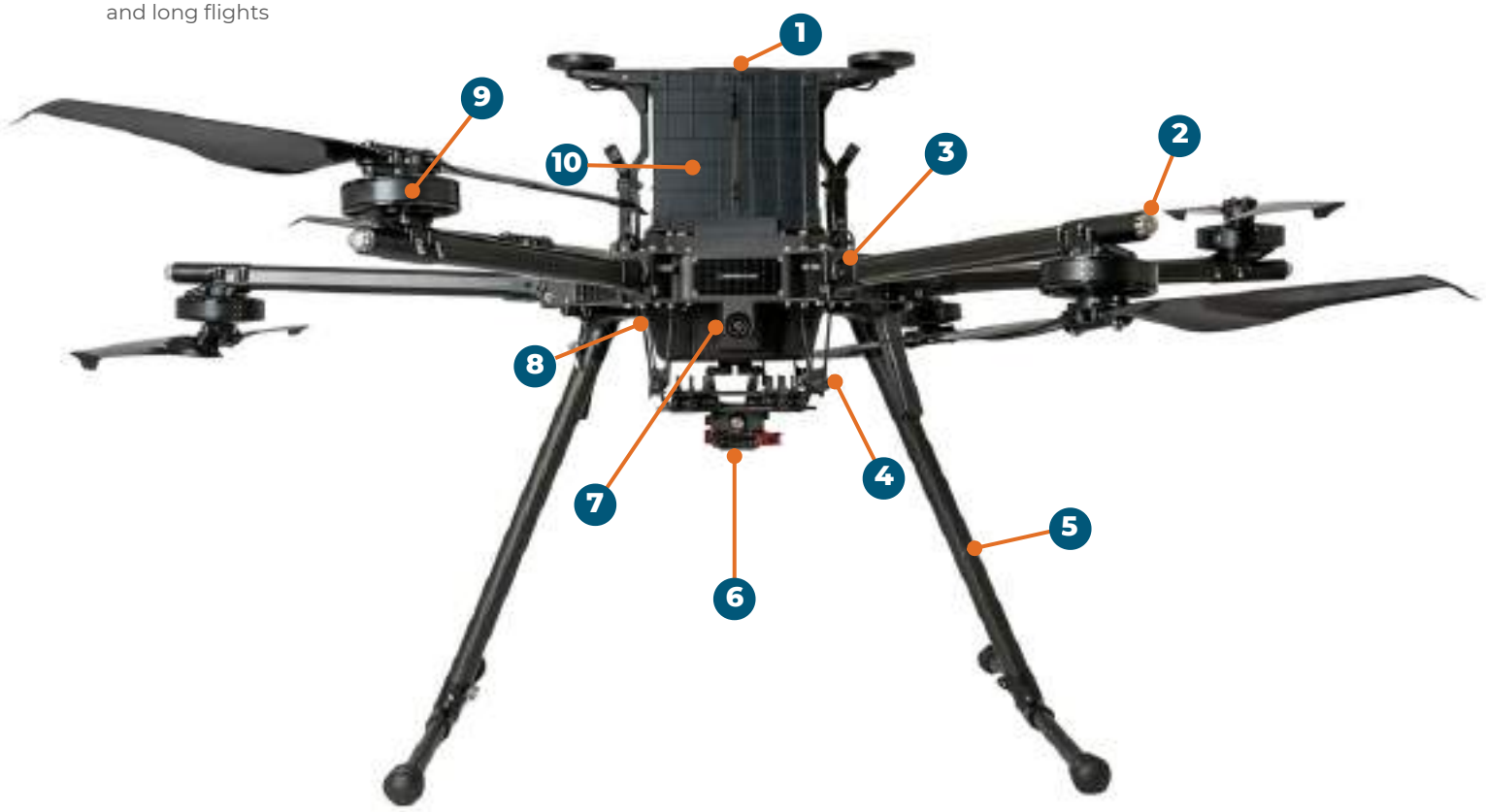
6 Smart Dovetail
Tool-free swaps for most payloads

7 FPV camera
Live forward view on your controller

8 Integrated Remote ID
Standard Remote ID, built in and FAA-declared

9 High-endurance motors
Tuned for heavy lift and long flights

10 IF1200 batteries
Two 16,000 mAh LiPo packs





3
Folded in case



6
Smart Dovetail



10 1
Battery bay & top mount



4
Mounting rails

IF800 TOMCAT

PORTABLE. DEPENDABLE. DEPLOYABLE.



One case, one person. The Tomcat sets up and packs down in minutes, so crews can cover several sites a day. On larger sites, hot-swappable batteries let you change packs without powering down. Flies mapping cameras, compact LiDAR, multispectral, and EO/IR.

54 MIN MAX FLIGHT	**18.7 LB** 8.5 kg FLIGHT WEIGHT
6.6 LB 3 kg MAX PAYLOAD	**19 KT** 10 m/s SUSTAINED WIND

COMMON USE CASES

Precision agriculture & plant phenotyping · Structural inspection · Public safety & search · Compact LiDAR survey · Methane and environmental monitoring



CASE STUDY

Survey of the San Miguel Mission

One IF800 flight captured 490 images over Mission San Miguel Arcángel, producing a 0.9 cm/pixel orthomosaic to support the preservation of the 1797 landmark.

READ- inspiredflight.com/post/mapping-san-miguel-mission-site

APPLICATIONS BY INDUSTRY

GEOSPATIAL / MAPPING · ENVIRONMENTAL · CIVIL / CONSTRUCTION · AGRICULTURE · PUBLIC SAFETY · RESEARCH · INSPECTION

WHAT'S INCLUDED

IF800 Tomcat aircraft · Landing gear · IB388 battery (2) · IB388 charger (2) · USB charger · Transport case · Controller

PERFORMANCE

Max air speed	**22 m/s (49 mph)**
Max wind resistance	**10 m/s (22.4 mph)**
IP rating	**IP43, 5–99% humidity**
Service ceiling	**4.2 km, no payload**
Flight controller	**CubePilot Cube Orange+**
Payload power rails	**12 V, 18 V**

DIMENSIONS & WEIGHT

Diagonal size	**905 mm (35.6 in)**
Unfolded (W×L×H)	**132 × 114 × 52 cm**
Folded (stow)	**36 × 44 × 20 cm**
Weight w/ batteries	**8.5 kg (18.7 lbs)**
Max gross takeoff	**11.5 kg (25.3 lbs)**
Transport case	**52.8 × 80.7 × 31.7 cm**

IF800 FEATURES

1 FPV camera
Live forward view on your controller

2 Top mount
For RTK/PPK modules, LiDAR GNSS antennas, and more

3 High-endurance motors
Tuned for lift and long flights

4 GNSS pass-through port
Coax connection for payload GNSS antennas

5 FAA-compliant strobe
Meets Part 107 lighting rules for night flights

6 Hot-swap IB388 batteries
Change packs without powering down

7 Pro Damping Kit
Slide the plate to rebalance for each payload, no tools

8 Smart Dovetail
Tool-free payload swaps

9 Carbon fiber arms & landing gear
Removable landing gear for storage

10 Folding arms
Lock in place to fly, fold down for the case

11 Integrated Remote ID
Standard Remote ID, built in and FAA-declared





10
Folded in case



6 2
Battery bay & Top Mount



7 8
PDK & Dovetail mount



5 4
Strobe & Coax pass-through



PLAN IT.
FLY IT.
OWN IT.

GS-ONE with Inspired Ground Control. Long-range HD video and full mission control in one handheld.

02 / SELECT YOUR GROUND CONTROL STATION

TWO CONTROLLERS: GS-ONE & HERELINK

Every IF800 and IF1200 ships with your choice of controller. Pick the one that fits how and where you fly.



RECOMMENDED · NDAA-COMPLIANT

GS-ONE

Built for compliant programs. Swap batteries without losing the link, map controls to buttons, add a SIM for internet and maps, and output live video over HDMI.

7 in	2,000 nit	3.7 mi 6km
Display	Brightness	Radio Range



BUDGET-FRIENDLY · NON-NDAA

Herelink

The lighter, lower-cost option. A compact handset with up to 4 hours of battery, for programs without NDAA requirements.

5.46 in	1,000 nit	3.7 mi 6km
Display	Brightness	Radio Range

CHOOSE THE GS-ONE IF

You need compliance and every feature

- Your organization requires NDAA-compliant equipment.
- You fly long days and don't want to stop for a charge.
- You want to stream or share video from the field.

SEE THE GS-ONE → PAGE 14

CHOOSE THE HERELINK IF

You need the essentials

- Your program has no NDAA requirement.
- You want a lower-priced configuration.
- You prefer a smaller, lighter controller.

SEE THE HERELINK → PAGE 15

WHAT BOTH CONTROLLERS SHARE

Flies both aircraft
Pairs with both the IF800 Tomcat and IF1200.

6 km radio range
AES-128 encrypted control and video.

Same IGC software
Both controllers run on Inspired Ground Control (IGC) Software.

Supported by IFT
As new firmware or software is rolled out, our team is there to guide you.

02 / SELECT YOUR GROUND CONTROL STATION

GS-ONE RECOMMENDED



IFT's all-in-one ground control station, built for any environment and laid out to feel familiar from the first flight.

2,000 NIT 7" TOUCH DISPLAY	**2.7 LB** 1,245g WEIGHT
5 HR BATTERY HOT-SWAPPABLE	**UP TO 6KM** RADIO RANGE

WHY OPERATORS PICK IT

NDAA compliant · Familiar to DJI pilots · Hot-swap batteries mid-shift

KEY FEATURES

1. **7-inch 2,000-nit display** — Readable in direct sun, glove-friendly touch
2. **Dual control sticks** — Familiar layout for crews switching off DJI
3. **Customizable buttons** — Map payload and flight functions to hardware keys
4. **IP55 sealed enclosure** — Handles rain, dust, and rough field use
5. **Integrated antennas** — NDAA-compliant 2.4 GHz & 5 GHz link
6. **Hot-swappable battery** — Change packs without powering down
7. **3-minute bridge battery** — Internal reserve holds the link during a swap
8. **4G LTE, WiFi, Bluetooth** — Add a SIM for internet and maps in the field
9. **Full I/O bay** — USB-A/C, HDMI, RJ-45 ethernet, microSD, SIM
10. **Inspired Ground Control** — Flight control app, Mission planning & pilot sign-in

BEST FIT

FEDERAL PROGRAMS · UTILITY FLEETS · DJI TRANSITIONS · LONG SHIFTS · RESEARCH PROGRAMS

SYSTEM

Display	7 in · 1920 × 1080 · 2,000 nit
OS	Android 14
Processor	Qualcomm QCS6490
Memory	8 GB RAM, 128 GB storage
Size	290 × 178 × 106 mm
Weight	2.7 LB · 1,245 g

RADIO, POWER & ENVIRONMENT

Radio	Up to 6 km range* · 1.5–2.3 km field-tested
Data encryption	AES-128 · FIPS 140-3
Cellular / wireless	4G LTE (SIM), WiFi 802.11ax, BT 5.2
I/O	USB-A/C, HDMI, RJ-45, SIM, microSD
Battery	10,400mAh hot-swap · upto 5hr · 3hr charge
Environment	IP55 · 0°C to 45°C

**Up to 6 km manufacturer-rated in ideal conditions with open space and clear line of sight; 1.5–2.3 km field-tested across urban environments. Range varies with terrain, weather, and RF interference.*

02 / SELECT YOUR GROUND CONTROL STATION

HERELINK BUDGET-FRIENDLY



A lighter handset with a dependable radio and low-latency video, and the most affordable way into an IFT aircraft.

1,000 NIT 5.46" TOUCH DISPLAY	**1.6 LB** 725g WEIGHT
4 HR BATTERY BUILT-IN	**UP TO 6KM** RADIO RANGE

WHY OPERATORS PICK IT

Lowest-cost entry into an IFT platform · Light second controller for a crew · Customizable buttons and wheel

KEY FEATURES

1. **5.46-inch 1,000-nit display**
   Bright enough for daylight inspection work
2. **Dual sticks and wheel**
   Wheel maps to gimbal or zoom control
3. **Customizable buttons**
   Assign payload triggers and flight modes
4. **Up to 4 hours per charge**
   Built-in 4,950 mAh battery
5. **PineSync HD video**
   Low-latency downlink to the handset
6. **Dual antennas**
   Dependable link in real field conditions
7. **Air unit**
   Compact, mounts on either airframe
8. **Inspired Ground Control (IGC)**
   Flight control app, Mission planning & pilot sign- in

BEST FIT

NON-NDAA WORK · DAILY SURVEY WORK · TRAINING · LOW-COST ENTRY

SYSTEM

Display	5.46 in · 1920 × 1080 · 1,000 nit
OS · protocols	Android 7.1.2 · PX4 · MAVLink
Processor	Qualcomm Snapdragon 660
Memory	4 GB RAM, 32 GB storage
Size	240 × 110 × 40 mm · 725 g

RADIO, POWER & ENVIRONMENT

Radio	Up to 6 km range* · 1.5–2.3 km field-tested
Data encryption	AES-128
Wireless	WiFi · Bluetooth
I/O	Micro USB · microSD
Battery	4,950 mAh built-in · upto 4 hr · 2.5hr charge
Environment	0°C to 45°C

**Up to 6 km manufacturer-rated in ideal conditions with open space and clear line of sight; 1.5–2.3 km field-tested across urban environments. Range varies with terrain, weather, and RF interference.*

03 / PICK YOUR PAYLOAD

TWO WAYS TO CHOOSE

35+ sensors from 15 partners, each flight-tested on our aircraft. Start with a kit or build your own.



3A / BROWSE PAYLOAD KITS

Mission-ready kits

Proven configurations for common mapping, inspection, and LiDAR workflows. Aircraft, controller, sensor, and mount arrive matched and flight-tested as one line item.

MISSION-READY KITS → PAGE 17



3B / BROWSE ALL PAYLOADS & LiDAR

Choose a sensor, and we'll handle the fit.

Best when you already know the deliverable and the accuracy budget. Compare all the payloads by mission fit, and our team will work out the integration with you.

PAYLOAD INDEX → PAGE 18
LiDAR COMPARISON → PAGE 19

OUR SENSOR PARTNERS

sentera SENSORS & DRONES Multispectral and thermal agriculture sensing	GEOCUE LiDAR and imaging solutions	GREMSY Gimbal stabilization and EO/IR payloads	SONY High-resolution imaging	InertialLabs a VIAVI Solutions company LiDAR with GNSS / INS integration
TELEDYNE OPTECH Imaging, thermal, and LiDAR sensing	YellowScan Lightweight precision LiDAR	PHASEONE Ultra-high-resolution mapping cameras	SPH Engineering GPR, magnetometry, methane, UgCS	RIEGL High-performance survey-grade LiDAR
ROCK robotic 3D terrain mapping LiDAR and SLAM	EAGLENXT MicaSense multispectral and thermal sensors	PHOENIX LiDAR SYSTEMS Versatile LiDAR mapping	LiDAR USA LiDAR mapping with GNSS/IMU and imaging	Inebird Live-line utility work and electrical measurement

3A / PICK YOUR PAYLOAD

MISSION-READY KITS

One quote, ready to fly. Every GS-ONE kit is NDAA-compliant, and every kit is also available online.

EVERY KIT INCLUDES Aircraft · Ground controller · Transport case · Payload · Battery kit · Inspired Care plan · Pilot training

MISSION-READY KIT	PAYLOAD & ADD-ONS	CONTROLLER	INSPIRED CARE
IF800 TOMCAT KITS · 6 batteries and 4 chargers in total			
Herelink Basic Mapping Kit Site mapping | Construction, Survey, Real Estate	Sony ILX-LR1	Herelink	Pro + Training
Herelink + TV1 Lite Basic LiDAR Kit Topographic LiDAR | Survey, Civil, Forestry	GeoCue TrueView TV1 Lite · GeoCue integration kit	Herelink	Elite
Herelink + TV1 26MP Advanced LiDAR Kit High-detail LiDAR | Survey, Engineering, Mining	GeoCue TrueView TV1 26MP	Herelink	Elite
GS-ONE Public Safety Kit Search & Rescue, Overwatch | Police, Fire, Emergency	Gremsy VIO F1	GS-ONE	Elite
GS-ONE Photogrammetry Kit Survey-grade Mapping | Construction, Civil, Mining	Sentera 65R · Sentera RTK/PPK module	GS-ONE	Elite
GS-ONE RGB Inspection Kit Asset Inspection | Utilities, Telecom, Infrastructure	Sony ILX-LR1	GS-ONE	Elite
GS-ONE Thermal Inspection Kit Thermal Inspection | Solar, Substations, Roofing	Gremsy VIO F1	GS-ONE	Elite
GS-ONE + GeoCue TrueView 641 LiDAR Kit Corridor & Topography Survey | Utilities, Rail, DOT	GeoCue TrueView 641	GS-ONE	Elite
GS-ONE + Teledyne EchoONE LiDAR Kit Survey & Corridor LiDAR | Civil, Utilities, Mining	Teledyne EchoONE	GS-ONE	Elite
IF1200 KITS · 4 batteries and 1 charger in total			
GS-ONE + Teledyne EchoONE LiDAR Kit Survey & Corridor LiDAR | Civil, Utilities, Mining	Teledyne EchoONE	GS-ONE	Elite
GS-ONE + GeoCue TrueView 641 LiDAR Kit Corridor & Topography Survey | Utilities, Rail, DOT	GeoCue TrueView 641	GS-ONE	Elite

Need a different sensor? Build your own configuration by line item from the payload index → pg 18.

Inspired Care tier details → pg 22. Request a quote by kit name from our sales team.

TOP PAYLOADS AT A GLANCE

We've flight-tested every payload on IFT aircraft from over 15 partners. Most mount on the Smart Dovetail, and our team handles the rest. Find even more payloads at shop.inspiredflight.com

LiDAR · 18 SYSTEMS			MAX RETURNS PER PULSE
GEOCUE **TrueView 625** 5.4 lb · 2.4 kg *5 returns* ◆	GEOCUE **TrueView 641** 4.4 lb · 2.0 kg *6 returns*	GEOCUE **TrueView TV1 NDAA** 4.0 lb · 1.8 kg *2 returns*	YELLOWSCAN **Mapper+** 2.4 lb · 1.1 kg *3 returns*
YELLOWSCAN **Vx20 Series** 5.7 lb · 2.6 kg *5 returns* ◆	YELLOWSCAN **Surveyor Ultra** 2.3 lb · 1.1 kg *3 returns*	RIEGL **miniVUX-3UAV** 3.5 lb · 1.6 kg *5 returns*	RIEGL **VUX-120** 4.4 lb · 2.0 kg *15 returns* ◆
ROCK ROBOTIC **R3** 2.6 lb · 1.2 kg *2 returns*	ROCK ROBOTIC **R3 Pro V2** 2.8 lb · 1.3 kg *2 returns*	ROCK ROBOTIC **Ultra** 3.1 lb · 1.4 kg *7 returns*	INERTIAL LABS **RESEPI LITE** 2.2 lb · 1.0 kg *3 returns*
INERTIAL LABS **RESEPI GEN-II** 3.7 lb · 1.7 kg *2–3 returns*	PHOENIX **Recon-XT / XT-A** 3.9 lb · 8 kg *2 returns*	PHOENIX **miniRANGER-3 LITE** 3.4 lb · 1.6 kg *5 returns*	LIDARUSA **Snoopy ACE 3** 4.4lb · 2 kg 7 returns
LIDARUSA **Surveyor 32** 4.3 lb · 2.0 kg *2 returns*	TELEDYNE **EchoONE** 2.6 lb · 1.2 kg *8 returns*		

◆ *Recommended on the IF1200*

Returns: *Maximum returns per pulse, as published by the manufacturer.*

Weight: *Manufacturer-published. Varies with camera and onboard battery versus aircraft power. Confirm for your configuration.*

OPTICAL & MULTISPECTRAL · 8 SYSTEMS			AGRICULTURE · INSPECTION · EO/IR
SENTERA **65R** Global shutter RGB 65 MP	SENTERA **6X** Multispectral + RGB 5 bands + 20 MP	SENTERA **6X Thermal Pro** Multispectral, RGB + thermal 5 bands + 640 × 512 thermal	SENTERA **RTK / PPK Module** GNSS positioning 1–3 cm accuracy
SONY **ILX-LR1** Full-frame RGB 61 MP	PHASE ONE **IXM-100** Medium Format RGB 100 MP ◆	GREMSY **VIO F1** EO/IR gimbal camera 20x zoom + 640 × 512 thermal	MICASENSE **Altum-PT** Multispectral + thermal 5 bands, pan + thermal

SPECIALIZED & GEOPHYSICAL · 8 SYSTEMS			UTILITY · UXO · SUBSURFACE
SPH ENGINEERING **Magnetometers** Mining, archaeology, UXO	SPH ENGINEERING **GPR — Zond Aero** Buried utility mapping	SPH ENGINEERING **Methane Detection** Oil & gas, landfills	SPH ENGINEERING **UgCS Software** Terrain-following flight planning
LINEBIRD **Osprey System** Live-line utility work ◆	LINEBIRD **Payload Drop Kit** Aerial pilot-line stringing	LINEBIRD **Ohmmeter Kit** In-field conductor testing ◆	LINEBIRD **Greenlee EK425** Remote conductor cutting ◆

3B / PICK YOUR PAYLOAD

LiDAR COMPARISON

Every LiDAR we integrate, from eight partners. Figures are manufacturer-published.

TIER	LiDAR	BEST FOR	PRECISION / ACCURACY	RANGE/ RATE	CAMERA	AIRCRAFT
Entry	PHOENIX **Recon-XT/XT-A**	Topographic surveys, construction sites, small utility jobs	2–5 cm at 80 m AGL	640 kHz, dual echo	Optional	Both
Entry	YELLOWSCAN **Mapper+**	Mining volumetrics, corridors, habitat mapping	High point density	230 m, 3 echoes	Optional	Both
Entry	INERTIAL LABS **RESEPI LITE**	Corridors, stockpiles, light-vegetation topography	~2–3 cm accuracy	300+ pts/m² at 100 m	Optional	Both
Mid	ROCK ROBOTIC **R3**	Aerial topography, volumetrics, construction progress	5 mm / 2–3 cm at 40 m	40 m AGL typ.	Integrated	Both
Mid	GEOCUE **TrueView TV1 NDAA**	NDAA-compliant programs	Dual-return, LP360 included	10.4M pts/s	26 MP global	Both
Mid	GEOCUE **TrueView 539**	Ground under canopy, stockpiles, quarries	5 mm precision / 2–5 cm	300 m, 6 returns	26 MP global	Both
Mid	PHOENIX **miniRANGER-3 Lite**	Mining, rail and pipeline corridors, forestry	2–3.5 cm precision	300 kHz, 5 returns	Optional	Both
Mid	LIDARUSA **Surveyor 32**	Topographic surveys, utility corridors, road and rail	Sub-2 cm typical	1.28M pts/s dual	Optional	Both
Mid	RIEGL **miniVUX-3UAV**	Forestry, glaciers and snowfields, power lines	Smart-Waveform, multi-target	300 kHz, 200k m/s	Optional	Both
Mid	YELLOWSCAN **Surveyor Ultra**	Bridges, cliffs, building faces, quarries	~3 cm / ~2.5 cm	360°, high density	Optional	Both
Mid	Teledyne **EchoONE**	NDAA-compliant programs	1.5 cm RMSEz at 120 m	270 m, 8 returns	Optional	Both
Pro	ROCK ROBOTIC **R3 Pro V2**	Dense vegetation, corridors, indoor SLAM	5 mm / 2–3 cm at 40 m	Large data volumes	Integrated	Both
Pro	LIDARUSA **SNOOPY ACE 3**	Complex surfaces, three-angle aerial surveys	5 mm / 2 cm at 100 m	450 m AGL, 7+ returns	Optional	Both
Pro	INERTIAL LABS **RESEPI GEN-II**	Large-site survey, high-accuracy topography	~2–3 cm / ~2–4 cm	~150 m AGL	Modular	Both
Pro	ROCK ROBOTIC **Ultra**	Forestry, large-area survey, deep canopy	2–3 cm to 1,000 m	450 m AGL, 7 returns	Integrated	Both
Pro	GEOCUE **TrueView 625**	Rail inspection, power line wire extraction	10 mm precision / 15 mm	100 m, 5 returns	3 × 20 MP	IF1200
High-end	YELLOWSCAN **Vx20 Series**	Civil engineering, high-altitude terrain	~1 cm / ~2.5 cm	170 m, 200k shots/s	Optional	IF1200
High-end	RIEGL **VUX-120**	Corridor, urban, narrow canyons	NFB scanning, 100° FOV	2.4 MHz, 2M m/s	Optional	IF1200

LiDAR systems only. Some LiDAR models require an integration kit for the IF800 or IF1200, sold separately. See compatible kits on page 20 or at shop.inspiredflight.com

KEEP THE FLEET IN THE AIR

Add batteries, spares, and integration kits to any aircraft or kit when you request a quote.



RECOMMENDED

IF1200 Battery Kit

Four batteries, one charger, and a protective case.



IF800 Battery Kit

Four IB388 batteries, and two chargers in a protective hard case.



Integration Kits - IF800 or IF1200

Mounts your GNSS antenna on the aircraft's top mount.



Sentera RTK/PPK Module - IF800 or IF1200

1–3 cm accuracy, L1/L2 multi-constellation GNSS, Only compatible with Sentera.



IF1200 Battery Set

Two 16,000 mAh batteries.



IF800 Battery Set

Two IB388 17,000 mAh batteries with built-in NFC for health monitoring.



IF1200 Spare Parts Kit

CW (3) & CCW (3) folding propellers, landing gear, torque drive, and loctite.



IF800 Spare Parts Kit

Four folding propellers, full landing gear set, PDK rails, battery latch, prop holders, and tool kit.



IF1200 Propeller Pair

CW or CCW folding propellers with mounting screws.



IF800 Propeller Set

Full set of propellers with replacement hardware.



GS-ONE Battery

A spare battery pack for hot swapping on the GS-ONE.

See the full lineup online

Spare parts, landing pads, IFT gear, and more.

shop.inspiredflight.com →

Building your field kit? Our team can recommend how many batteries you'll need for a full day of lfying, plus the spares worth packing.
+1 (805) 457-9432

05 / SOFTWARE COMPATIBILITY

PLAN, FLY, MANAGE, PROCESS

Every aircraft includes Inspired Suite to fly and manage fleets. When you land, your sensor data works with the processing software you already use.

Inspired Suite

INCLUDED WITH EACH AIRCRAFT



Inspired Ground Control (IGC)

The flight app on your controller: clean flight view, autonomous missions planning, and pilot sign-in.



PilotGo

Mobile app for preflight checks, NFC battery health scans, and mission logs that sync to Elevate.



Elevate

Manage your fleet, aircraft health, pilot authorization, and send flight logs to our tem when support is needed.

SUPPORTED THIRD-PARTY SOFTWARE

MISSION PLANNING & GCS	**Mission Planner · QGroundControl · UgCS** Flight planning, GCS, and terrain-following missions for LiDAR and corridors.
PHOTOGRAMMETRY	**PIX4D · WebODM · Agisoft Metashape · Trimble Business Center** Process aerial imagery into orthomosaics, elevation models, 3D models, and point clouds.
LIDAR PROCESSING	**GeoCue LP360 · CloudStation · PCMasterPro · ROCK Cloud · TerraScan** Point cloud processing, classification, terrain modeling, and quality control.
GIS & SURVEY	**Emlid · REDcatch · Esri ArcGIS Pro · QGIS · Autodesk Civil 3D · Global Mapper** RTK/PPK positioning, ground control, terrain analysis, and engineering workflows.
AG ANALYTICS	**PIX4Dfields · Sentera FieldAgent · Solvi** RGB and multispectral analysis for crop health, NDVI, and stand counts.
OPEN PLATFORM	**ArduPilot · MAVLink** Open-source autopilot and standard protocols for custom integrations.

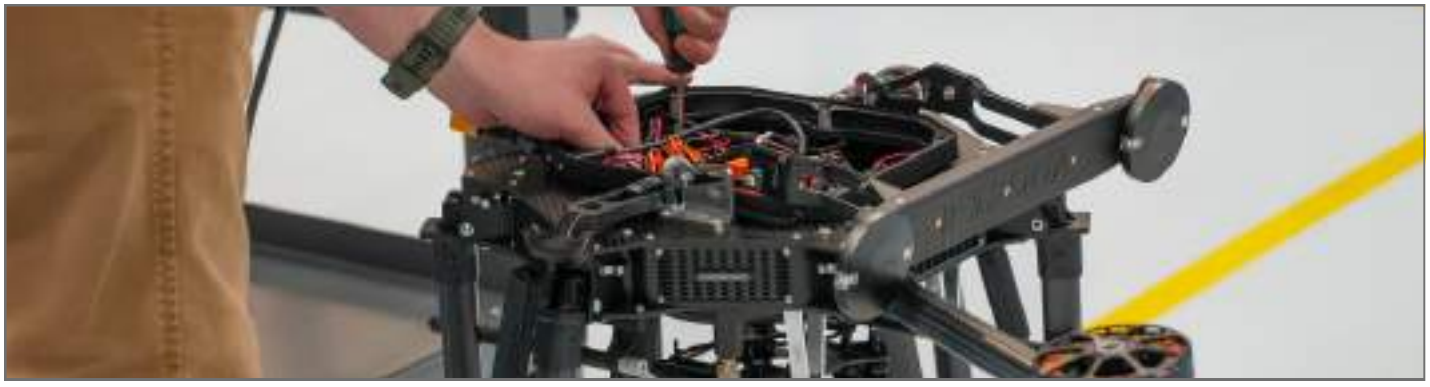
Running something custom? The platform is open by design. Let's talk about your workflow.

06 / CHOOSE YOUR PROTECTION PLAN

INSPIRED CARE

Every aircraft starts with Foundation coverage. Upgrade for faster U.S.-based support, repair discounts, and replacements.

BENEFITS	FOUNDATION AUTOMATIC	STARTER ENTRY	PRO MOST POPULAR	ELITE COMPLETE
Support Team Response Time	48 hr	48 hr	**4 hr**	1 hr · Elite Support Hotline [2]
1-Year Factory Warranty [1] [6]	Included	Included	**Included**	Included
Inspired Suite Software Access	Included	Included	**Included**	Included
Yearly Battery Program Buy a pair, get a pair	—	Included	**Included**	Included
Inspired Certify Access [3] Inspection and flight test	—	—	**Included**	Included
1-Day Aircraft Training [5]	—	—	**25% off**	**Free**
Repair Discount	—	20% off	**35% off**	50% off
Rental Discount	—	10% off	**25% off**	**Free week**, then 50% off
Replacement Aircraft [4]	—	10% off	**25% off**	**First free**, then 50% off
Repair Shipping [7]	—	Ground	**Ground**	2-Day



[1] Factory 1-year limited warranty against material and workmanship defects under normal use. [2] Elite Hotline: call M–F, 7 a.m.–5 p.m. Pacific. If the team doesn't answer right away, you'll hear back within one hour.[3] Inspired Certify: cleaning, internal and external QC, flight test, log analysis, software updates, prepaid shipping. [4] Replacement aircraft: one per contract; 50% off subsequent replacements; excludes gross negligence. [5] Training: one day at IFT headquarters or customer location, max four trainees; pilot travel not covered. [6] Warranty continuation requires proof of airworthiness if coverage lapses. [7] Prepaid shipping in the continental U.S. only.

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After the purchase order: who trains your team, and who picks up the phone.



THE DIFFERENCE

Support that knows your aircraft

Support requests go to IFT technicians in San Luis Obispo who work alongside the engineers behind your aircraft. Whether you bought directly or through a dealer, you can reach our team.



TRAINING WITH IFT

Hands-on training on your own aircraft

Learn from IFT's own instructors. Our one-day course, held at IFT HQ in San Luis Obispo or at your site, takes up to four trainees through systems, safety, flight, and mission planning on the aircraft you'll actually fly.



IFT KNOWLEDGE BASE

Answers without waiting

Manuals, troubleshooting guides, video tutorials, and FAQs for every IFT product are available 24/7.

Visit docs.inspiredflight.com

NEXT STEP

Tell us what you're measuring and where.
We'll help you choose the aircraft, sensor, and workflow to get it done.

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TALK TO AN EXPERT

Connect with our team to discuss your mission requirements.

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