



DRONE FOR EVERYONE

Argosdyne. Product Catalog

Drone Technology Innovates for a Better Future



CARGOSDYNE

drone for everyone

Argosdyne, composed of developers and drone experts with over 10 years of IT experience, is a challenging company that constantly explores and tests the latest technologies in the field of unmanned vehicles.

We define drones as a mobility system that offers new alternatives in the industrial field, not simply as a flying and shooting device, but as a robot that performs a mission in a three-dimensional space including the sky.

With the technology accumulated as a drone automatic operation platform, Argosdyne will build a mobility platform that can be applied to all fields of the unmanned mobile industry including drones.

Argosdyne, dreaming of becoming a global unmanned mobile mobility platform company, takes a step full of hope to build and provide services for all automation platforms in the sky, on the water, and on the ground.

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ARGOSDYNE ARGOSDYNE

AQUILA-2

Drone for everyone

Designed with user convenience in mind, it delivers intuitive systems and easily accessible services.



Waterproof IP53



Dual GPSs



Max. Flight Time: 67Minutes



Up to 1.5 kg Payload

Keyword

- Operable with Drone Stations
- Multi-Player in all areas
- Max. Flgiht Time: 67Minutes (without payload)



Features

- Designed for Versatility Across Multiple Sectors
- Support various payloads such as EO/IR, 3D LiDAR etc,.
- PC based GCS or Smart Controller
- Support Precision Landing Module for Drone Station(optional)
- Communication: 4/5G LTE, MANET





AQUILA-2

The All-Around Player in Drone Technology

1. Multi-Purpose Drone, AQUILA-2

The Aquila-2 drone by ARGOSDYNE is a versatile and customizable solution for construction site, Drone First Response, Law Enforcement, etc..

It delivers stable flight performance and extended flight time. Most components, including the software, are developed in-house, enablint fully customized configurations.

It features a configurable camera, a dedicated remote controller, and a built-in speaker system for versatile mission capabilities.

The camera can be easily swapped using a quick-release system, supporting various types ranging from Full HD to 4K EO/IR cameras.

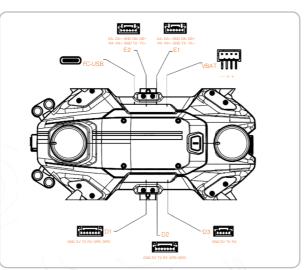
By maximizing power efficiency, the Aquila-2 achieves longer flight times on minimal energy consumption.

Its dual GPS modules ensure precise positioning even in challenging electromagnetic environments—without the need for an RTK system.

Designed for autonomous and continuous missions, it integrates seamlessly with the Drone Station (Docker-based system). Its extended flight time, and payload versatility make it ideal for long-duration operations and integration with various communication platforms.

External I/O ports allow users to connect and operate their own devices directly from the Aguila-2 platform.







nical Spe	cification		
495.3	3 × 455.2 x 286.4 mm	Num of Motors	4
	Quadaantar	Diagonal Size	600mm
	Quadcopter	Weight (Max Payload)	1.5kg
e)	10,000 / 12,000mAh	Max. Takeoff Weight	4Kg
<i>/</i>	2.5kg	Max. Flight Speed	45km/h
	1.5Km 15m/s	Max.FlightTime (without payload)	> 67minutes
	6-10m/s (Configurable)	Max. Rotation Speed	60°/s
	-10°C~50°C	IP Level	IP53
	10 0 00 0	Position Accuracy	± 20cm
	Dual GPS-GPS, GLONASS, Galileo, BeiDou	Etc.,	Obstacle Avoidance (optional)
	Battery Failsafe, Signal Loss Failsafe		

AQUILA-2+

Drone for everyone

Designed with user convenience in mind, it delivers intuitive systems and easily accessible services.



Waterproof IP53



Dual GPSs



Max. Flight Time: 67Minutes



Up to 1.5 kg Payload



Built-in 5G Router



Al data processing

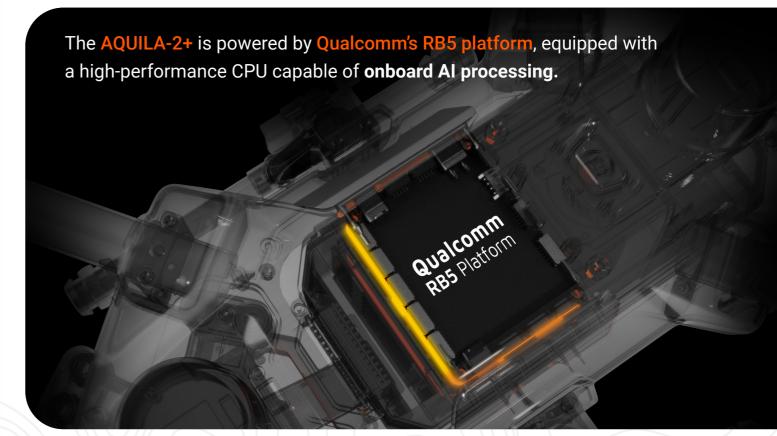


Keyword

- 4G/5G LTE
- Powered by a high-performance CPU based on the Qualcomm RB5 platform.
- Al Edge Device

Features

- Multi-purpose Drone for Day & Night Use
- Multi-tasking Capability Through High-Performance CPU
- Support 4G/5G LTE
- Support various payloads such as EO/IR, 3D LiDAR etc..
- PC based GCS or Smart Controller
- Support Precision Landing Module for Drone Station(optional)



AQUILA-2+

The **All-Around Player** in Drone Technology with **High Performance** CPU

1. Multi-Purpose Drone with 4/5G LTE inside AQUILA-2+

ARGOSDYNE's Aquila-2+ is a powerful and adaptable drone solution, designed to meet the needs of construction, mapping, and a wide range of industrial and commercial missions.

Powered by Qualcomm's RB5 platform and built-in 4/5G LTE connectivity, the Aquila-2+ brings edge computing to the skies—enabling real-time Al processing directly on the drone, without the need for external servers.

Custom-designed components and proprietary software allow the drone to be configured for a wide range of use cases.

With a quick-release system, the Aquila-2+ supports easy camera swaps and accommodates a variety of payloads, including Full HD to 4K EO/IR options—ensuring optimal flexibility for mission-specific needs.

Engineered for endurance, the Aquila-2+ leverages high thrust and energy-efficient design to maximize flight time.

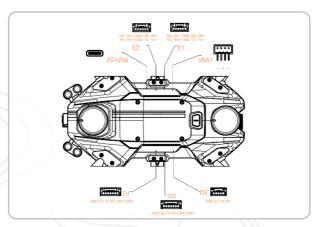
Dual GPS modules with multi-satellite support provide robust positioning accuracy, even in challenging electromagnetic environments.

Designed for autonomous and continuous missions, it integrates seamlessly with the Drone Station (Docker-based system). Its extended flight time, and payload versatility make it ideal for long-duration operations and integration with various communication platforms.

With extended flight endurance, a replaceable battery system, and versatile payload support, the Aquila-2+ is engineered for long-duration missions and seamless adaptation across various operational scenarios.

Compatible with 4G/5G, LTE, Wi-Fi, and MANET, it offers flexible connectivity across diverse communication environments. compatibility with diverse communication systems.







Aquila-2+ Technical Specification Size (WxLxH) 495.3 × 455.2 x 286.4mm Num of Motors Diagonal Size 600mm Quadcopter Drone Type Weight (Max Payload) 1.5kg Battery Capacity(2type) 10,000 / 12,000mAh Max. Takeoff 4Kg Weight with Battery 2.5kg 45km/h Max. Flight Speed Max. Flight Altitude 1.5Km Max.FlightTime > 67minutes 15m/s (without payload) Max. Wind Resistance Max. Rotation Speed 60°/s Max. Take off 6-10m/s /Land Speed (Configurable) IP53 IP Level -10°C~50°C Operation Temperature ± 20cm Position Accuracy **GNSS System** Dual GPS-GPS. Etc., **Obstacle Avoidance** GLONASS, (optional) Galileo, BeiDou Failsafe Battery Failsafe, Signal Loss Failsafe

AQUILA-3F

Drone for everyone

Designed with user convenience in mind, it delivers intuitive systems and easily accessible services.



Waterproof IP53



Dual GPSs



Max. Flight Time: 76Minutes



Up to 3 kg Payload

Keyword

- Operable with Drone Stations
- Multi-Player in all areas
- Folding Arm

Features

- Multi-purpose drone for day and night operations
- Support various payloads such as EO/IR, 3D
- PC based GCS or Smart Controller
- Support Precision Landing Module for Drone Station(optional)
- Communication: 4/5G LTE, MANET





AQUILA-3F

The All-Around Player in Drone Technology with Long Flight Time

1. A Versatile UAV Platform with Long Flight Endurance, AQUILA-3F

ARGOSDYNE's Aquila-3F is a highly adaptable drone platform, ideal for construction, public safety, and mapping missions. With reliable flight performance, long endurance, and a foldable design, it combines power with portability.

Custom-designed components and proprietary software allow the drone to be configured for a wide range of use cases.

With a quick-release system and support for Full HD to 4K EO/IR cameras, the Aquila-3F offers flexible payload integration tailored to diverse operational needs.

Engineered for endurance, the Aquila-2+ leverages high thrust and energy-efficient design to maximize flight time.

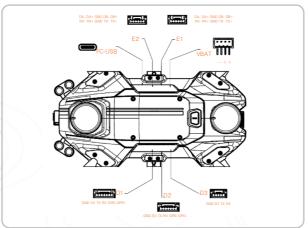
Dual GPS modules with multi-satellite support provide robust positioning accuracy, even in challenging electromagnetic environments.

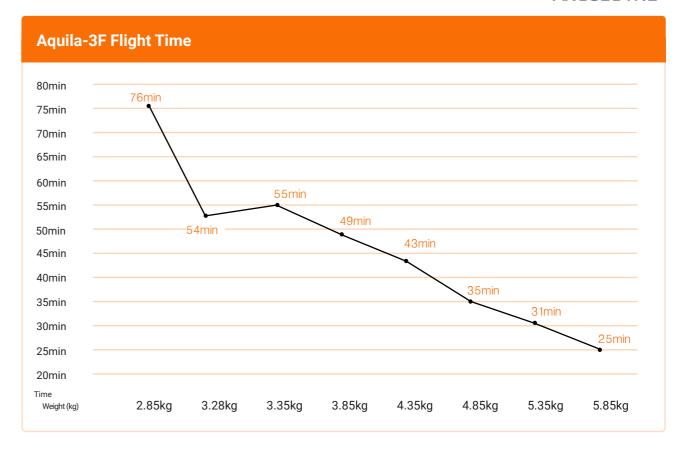
Designed for autonomous and continuous missions, it integrates seamlessly with the Drone Station (Docker-based system). Its extended flight time, and payload versatility make it ideal for long-duration operations and integration with various communication platforms.

With long flight endurance, a replaceable battery system, and versatile payload compatibility, the Aquila-3F is perfectly suited for extended operations across diverse mission profiles.

Compatible with 4G/5G, LTE, Wi-Fi, and MANET, it offers flexible connectivity across diverse communication environments.







Aquila-3F Technical Specification		
Size (WxLxH) 583.58 × 582.42 x 325	mm Num of Motors	4
Drone Tune	Diagonal Size	780mm
Drone Type Quadco	Weight (Max Payload)	3kg
Battery Capacity(2type) 10,000 / 12,000	—— Max. Takeoff Weight	5.85Kg
Weight with Battery 2.8	5kg Max. Flight Speed	45km/h
Max. Flight Altitude 1.	Max.FlightTime	> 76minutes
Max. Wind 15 Resistance	m/s (without payload)	
Max. Takeoff/Land Speed 6-10 (Configura	• •	60°/s
Operation -10°C~	0°C IP Level	IP53
Temperature	Position Accuracy	±20cm
GNSS System Dual GPS- GLON Galileo, Be	ASS,	Obstacle Avoidance (optional)
Failsafe Battery Fail Signal Loss Fail		

AVIATOR

Smart Controller

Available for the AQUILA series



Control Range: > 3Km



Max. Operation Time: > 4 Hours



Weight 1100g



7-inch, FHD screen

Keyword

- Portable remote controller
- Supports 2.4GHz & 5.8GHz
- Operation time: Max. 4.5Hours

Features

- Smart control
- Support Camera & Gimbal Control
- Real-Time Video Play
- Long Range (> 3 Km) (Depending on Country and Environ.)
- Support Wi-Fi connection
- Support Various Flight Controllers



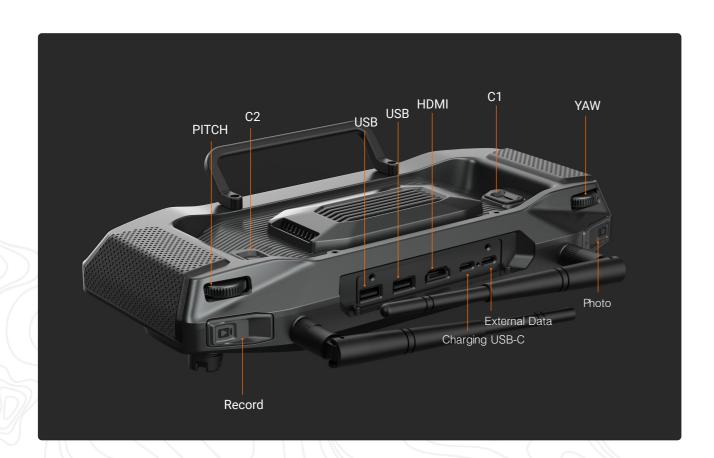
AVIATORSmart Controller

1. Controller - AVIATOR

The AVIATOR controller enables drone operation within > 3 km visual line-of-sight (VLOS) range, leveraging OFDM communication for stable and long-range control.

AVIATOR is the perfect remote controller that guarantees complete control of the drone from anywhere.

This advanced communication system ensures responsive control and a stable connection, both at close range and over long distances.





AVIATOR Technical Specificatio	n
Size (WxLxH)	280×150×60mm
Weight	1100g
Frequency	2.4000 - 2.4835 GHZ; 5.725-5.850 GHz
RF Power	10mW/MHz
Antenna	2T2R
Operating system	Android10
Operation Time	4.5 Hours
Communication Range	10km, VLOS, Output Power = 27db
Display	7", 1080P, 1000nit
Output Ports	USB*2, HDMI *1, USB-C *2
Operation Temperature	0°C~40°C
Built-in battery	7.4V 10000mAh

Surveillance

CAMERA

Available for the AQUILA series





4K Image quality



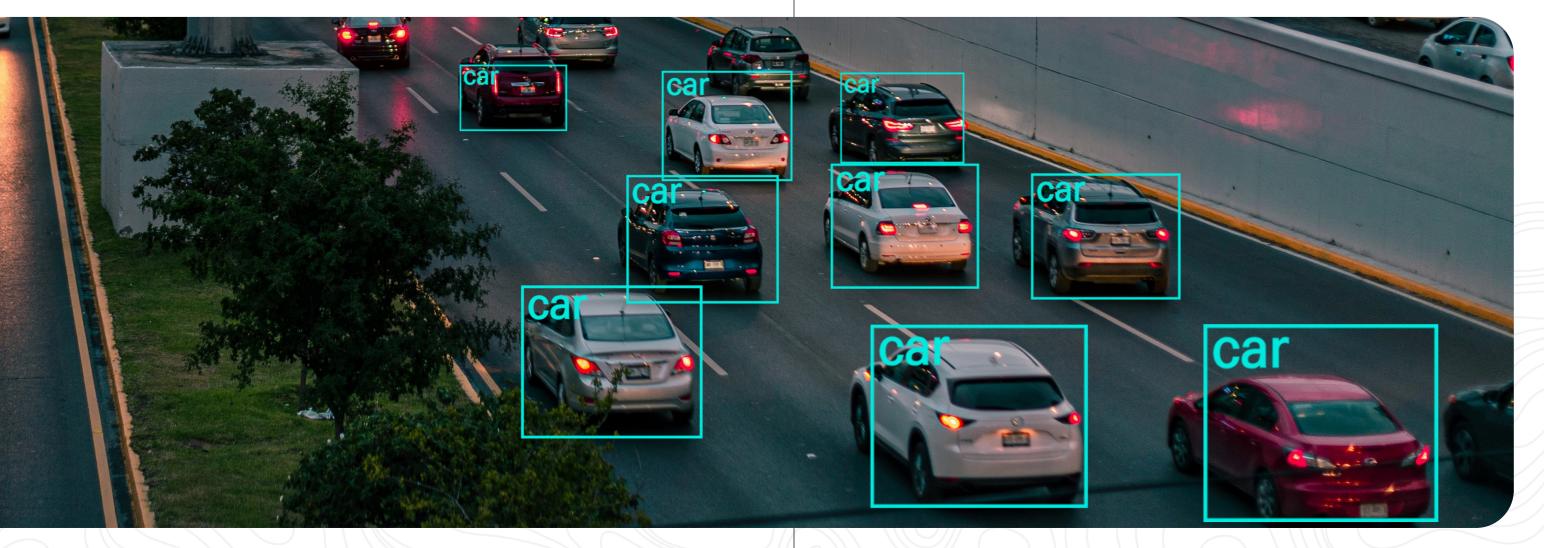


NVIDIA board

Keyword

- EO Camera: 4K Video, x30 Zoom (x90 Hybrid Zoom)
- 3-Axis Gimbal
- IR: 640x512 30Hz

- High-Precision 6-Axis MEMS Motion Tracking ®IMU
- Range Finder: up to 1.2Km



Surveillance

Camera

1. RHYTHM 3

The Rhythm3 camera seamlessly synchronizes infrared and visible light images, delivering clear visuals along with radiometric data analysis capabilities.

With radiometric JPEG compatibility, it delivers high-quality thermal images and supports detailed analysis—ensuring enhanced situational awareness through advanced imaging technology.

The EO camera of the Rhythm3 is equipped with a SONY Exmor R CMOS sensor, delivering exceptional 4K resolution and x30 optical zoom for detailed visual capture.

Equipped with a built-in NVIDIA module, it enables advanced object detection, delivering precise and versatile performance across a range of operational scenarios.







RHYTHM 3 General Specification Size (WxLxH) 150x112x153mm Weight 800g IP rating IP44 EO: SONY Exmor, 4K, x30 Camera Modules IR: 640x512, 30Hz LRF: distance up to 1.2Km Al Image Detection Gimbal control range Pitch: 90° to +20° Pan: 360° **Operating Temperature** -10°C to 50°C Power 11~25V

RHYTHM 3 Edge computing performance		
SOM	Nvidia Xavier NX 16G	
Al performance	21 TOPS (INT8)	
GPU	384-core NVIDIA VoltaTM GPU with 48 Tensor Cores	
GPU Max Freq	1100 MHz	
CPU	6-core NVIDIA Carmel ARM v8.2 64-bit CPU 6MB L2+4MB L3	
CPU Max Freq	2-core @ 1900MHz 4/6-core @ 1400Mhz	
Memory	8GB 128-bit LPDDR4x @1600 MHz 51.2GB/s	
Repository	16GB eMMC5.1	

Eo Camera	
Sensor	4K Exmor R CMOS Sensor SONY 1/2.5 CMOS 8.51 MP
Zooming	30 optical zooming, 90 Hybrid zooming without quality lose
Electronic shutter spec	ed 1 to 1/10000 sec.
Video resolution	3840 x 2160@30fps
Video format	mp4
Storage temperature/ Humidity	-20 to 60°C/20-95%

El Camera	
Lens	Focal length: 9.1 mm (equivalent:40mm) FOV 48°×38°, 1.31mrad, DFOV: 61°,F1.0
Type Uncooled	VOX Microbolometer(VOX)
Image quality	640*512
Video resolution	640*512@30Hz
Video format	mp4
Operating Temperature	-40°C~+80 (-20°C~60°C Radiometric)

Mapping

CAMERA & 3D LIDAR

Available for the AQUILA series



Reliable and stable flight



Optimized Precision with Specialized Lens Matching



Safe Operating Range

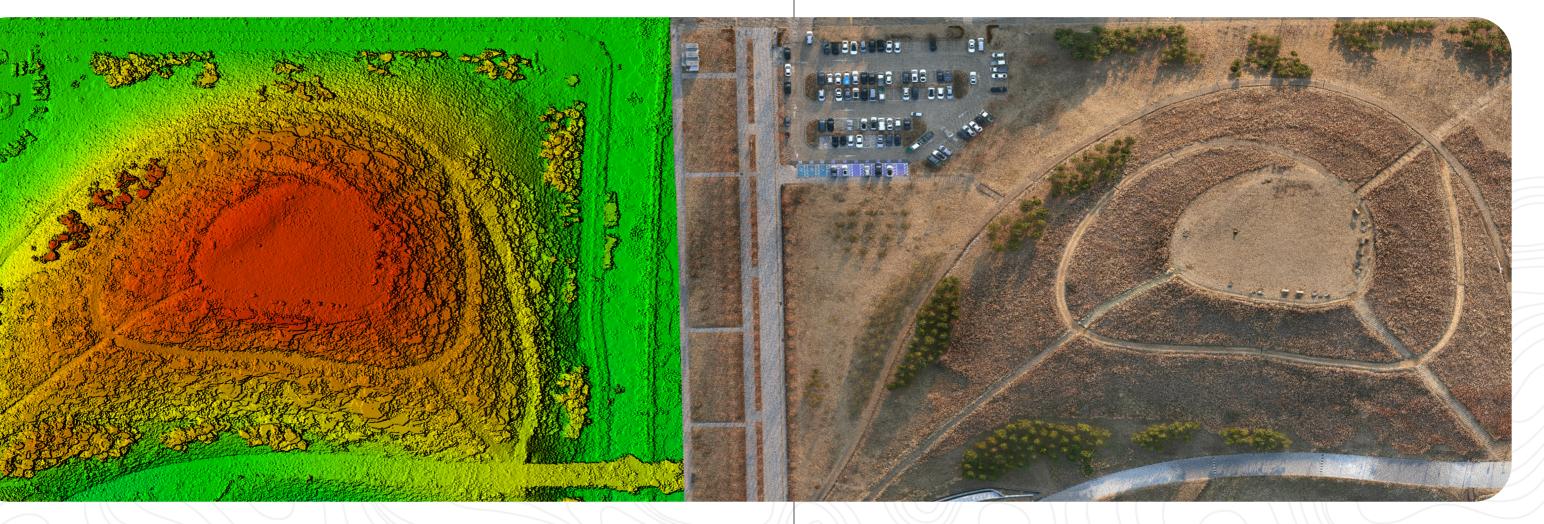


High-Resolution Images

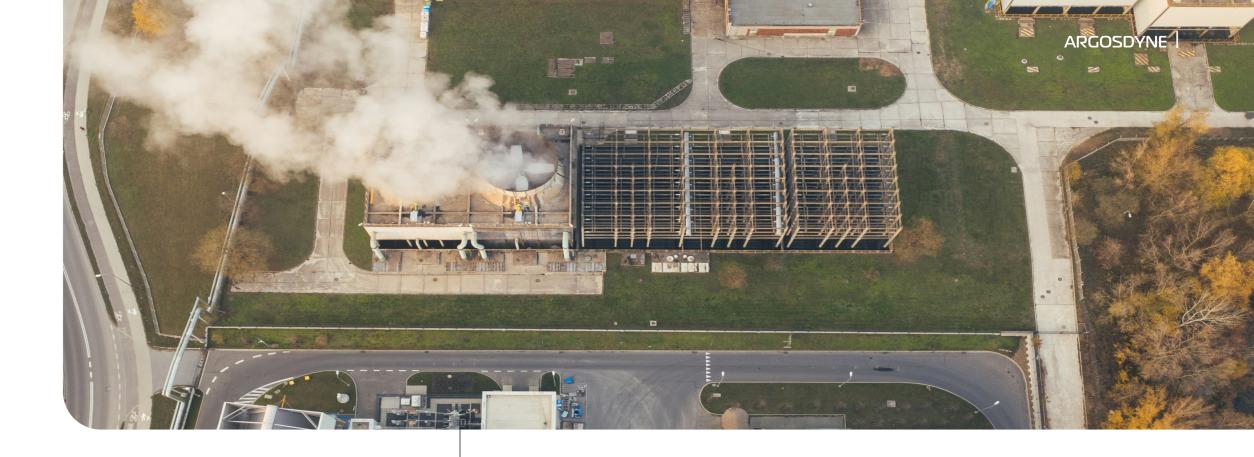
Keyword

- Sony IMX 455 full-frame 61MP
- 3.76µm pixel
- Mapping accuracy of 2cm

- Multi-LD low dispersion lens
- Multi-layer reinforced nano coating



MappingCamera



1. 6100X

SHARE's in-house imaging module, equipped with a state-of-the-art Sony IMX455 full-frame 61MP sensor and 3.76µm pixels, sets a new standard in aerial surveying and mapping.

Constructed with friction-reducing Kimoto material, the shutter ensures greater longevity. The integrated multi-LD (low-dispersion) lens enhances optical performance for sharper, clearer imagery.

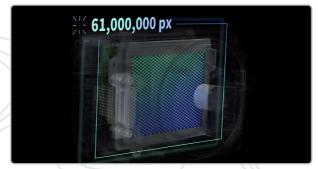
Share 6100X



The lens is treated with a multi-layer reinforced nano-coating that effectively reduces reflected light, delivering consistent image quality and crystal-clear aerial footage.

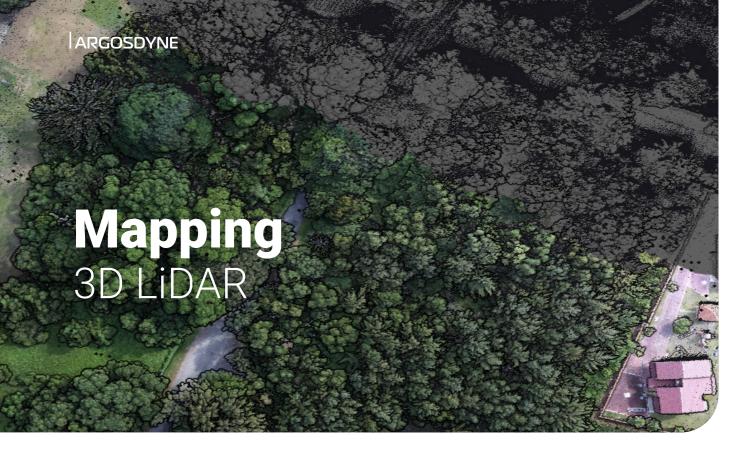
With TIMESYNC 2.0, precise microsecond synchronization across camera, gimbal, flight control, and RTK enables GCP-free workflows. Adaptive 1080p HD streaming further ensures stable, responsive flight control.





Share 6100X Technical Specification

Size (WxLxH)	128.5 x 181.5 × 153.3mm(gimbal include)
Weight	640g (gimbal include)
Image size	9552 × 6368 Pixe
Resolution	4K (3840×2160
Pixels Size	9552 × 6368
Pixel Size	3.76µn
IP rating	IP50
Stabilization system	3-axis gimbal (pitch, roll, yaw
Data capacity	512GE
Aperture	F5.6 fi
Operating temperature	-20°C~50°C
Storage temperature	-20°C~60°C
Operating humidity	≤ 95%
Lens	Standard 40mn Option 56mn
Power	DC 12-50\



2. Yellowscan Surveyor Ultra OEM, Mapper+OEM

The YellowScan Ladar series offers an outstanding integrated LiDAR solution in terms of both price and performance, enabling precise data acquisition.

Combining lightweight design with high density, it ensures both lightness and accuracy.

Additionally, it provides easy operation and processing, making it accessible even to beginners.

Surveyor Ultra OEM



	Surveyor Ultra OEM	l Tethering System			
	Laser scanner	Hesai XT32M2X	Max. data generated	1920k pts/sec	
	Point density	34 pts/sqm @ 100 m AGL 18m/s	RGB Camera	8MP	
	Laser range	Up to 230 m 300 m	Precision	3cm	
	Laser wavelength	905 nm	Accuracy	2.5cm	
	Scanner field-of-view	360° x 40.3°	Power consumption	20W	
)	GNSS inertial solution	SBG Quanta Micro	Size (WxLxH)	101×128×111 mm	
	Max. rec. flying height	120 m	Weight	0.754 kg	
			I and the second		

Mapper+OEM

Version A



Version C



	1 · AV
Laser scanner	Livox AVI
Point density	95 pts/sqm @100 m AGL 18 m/
Laser range	Up to 230 r
Laser wavelength	905 nr
Scanner field-of-view	70.4° x 4.5
GNSS inertial solution	Applanix APX-1
Max. rec. flying height	100 r
Max. data generated	720k pts/se
RGB Camera	(VERSION-A): Optiona (VERSION-C): 8 MI
Precision	3.5cn
Accuracy	4cn
Power consumption	190
Size (WxLxH)	(VERSION-A): 144 x 66 x 93 mn (VERSION-C): 100 x 97 x 94 mn
Weight	(VERSION-A): 0.75 kg (VERSION-C): 0.73 kg

AQUILA Comparsion

Feature	AQUILA-2	AQUILA-3F
Drone Type	 Quadrotor UAVs Optimized for multi-purpose applications. 	 Quadrotor UAVs Optimized for multi-purpose applications.
Size (mm)	• 495 x 455 x 287 (W x L x H)	• 584 x 583 x 325 (W x L x H)
Max. Weight of Payload	• 1.5Kg	• 3.0Kg
Companion Computer	 Embedded 32-bit MICOM Designed for lightweight control and stability. 	 Embedded 32-bit MICOM Designed for lightweight control and stability.
Payload	 EO/IR Camera Supports Electro-Optical (EO) and Infrared (IR) imaging for surveillance and inspection. Mapping Camera High-resolution camera for detailed topographic mapping. 3D LiDAR Terrain mapping, forestry analysis, infrastructure inspection, and topographic surveys. Megaphone System For aerial broadcasting and emergency response. 	 EO/IR Camera Supports Electro-Optical (EO) and Infrared (IR) imaging for surveillance and inspection. Mapping Camera High-resolution camera for detailed topographic mapping. 3D LiDAR Terrain mapping, forestry analysis, infrastructure inspection, and topographic surveys. Megaphone System For aerial broadcasting and emergency response.
Edge Al Device	Not Supported	Not Supported
4G/5G LTE	 External modem Allowing flexible network adaptation but requiring additional hardware. 	 External modem Allowing flexible network adaptation but requiring additional hardware.
Station Compatibility	 Compatible with ARGOSDYNE's drone stations Enabling autonomous deployment and recharging. 	 Customizable compatibility Allowing modifications for specific docking and charging solutions.

AQUILA-2+	AQUILA-3F+
 Quadrotor UAVs Optimized for multi-purpose applications. 	 Quadrotor UAVs Optimized for multi-purpose applications.
• 495 x 455 x 287 (W x L x H)	• 584 x 583 x 325 (W x L x H)
• 1.5Kg	• 3.0Kg
 Qualcomm RB5 platform with multi-core CPU Enabling advanced Al-based computing and real-time data processing. 	 Qualcomm RB5 platform with multi-core CP Enabling advanced Al-based computing and real-time data processing.
 Integrated AI CPU Allowing onboard machine learning and object detection for autonomous flight. 	 Integrated AI CPU Allowing onboard machine learning and object detection for autonomous flight.
 EO/IR Camera Supports Electro-Optical (EO) and Infrared (IR) imaging for surveillance and inspection. 	 EO/IR Camera Supports Electro-Optical (EO) and Infrared (IR) imaging for surveillance and inspection.
Mapping Camera High-resolution camera for detailed topographic mapping.	 Mapping Camera High-resolution camera for detailed topographic mapping.
• 3D LiDAR Terrain mapping, forestry analysis, intrastructure inspection, and topographic surveys.	 3D LiDAR Terrain mapping, forestry analysis, intrastructure inspection and topographic surveys.
 Megaphone System For aerial broadcasting and emergency response. 	 Megaphone System For aerial broadcasting and emergency response.
 LTE Network Measurement Device Supports network quality testing, making it ideal for telecom infrastructure evaluation and optimization. 	 LTE Network Measurement Device Supports network quality testing, making it ideal for teleconfrastructure evaluation and optimization.
 Supported (ex: people, car, number plate) Al-powered onboard computing enables real-time data analysis, autonomous decision-making, and enhanced object recognition. 	 Supported (ex: people, car, number plate) Al-powered onboard computing enables real-time data analysis, autonomous decision-making, and enhanced object recognition.
 Integrated LTE/5G modem Ensuring seamless communication and real-time data transmission without external devices. 	 Integrated LTE/5G modem Ensuring seamless communication and real-time data transmission without external devices.
Compatible with ARGOSDYNE's drone stations Enabling autonomous deployment and recharging.	 Customizable compatibility Allowing modifications for specific docking and charging solutions.



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(Weekdays 9:00 \sim 18:00 - Closed on Saturdays, Sundays and public holidays)

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