



AIRAKS

TECHNOLOGY ANONYMOUS COMPANY

V-220 / V-410
VTOL

HAVE YOUR EYES EVERYWHERE WITH THE V220 AND V410 UAV'S, WHICH
DO NOT REQUIRE A LANDING STRIP AND OFFER SATISFYING
OPERATIONAL DURATIONS

YOUR SOLUTION PARTNER IN AUTONOMOUS SYSTEMS

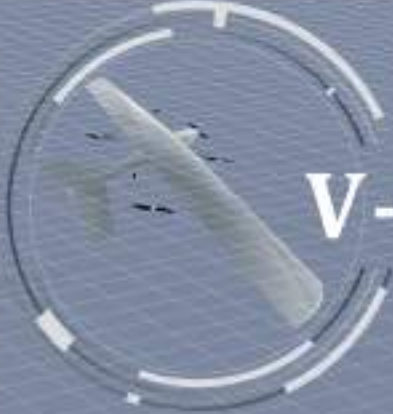
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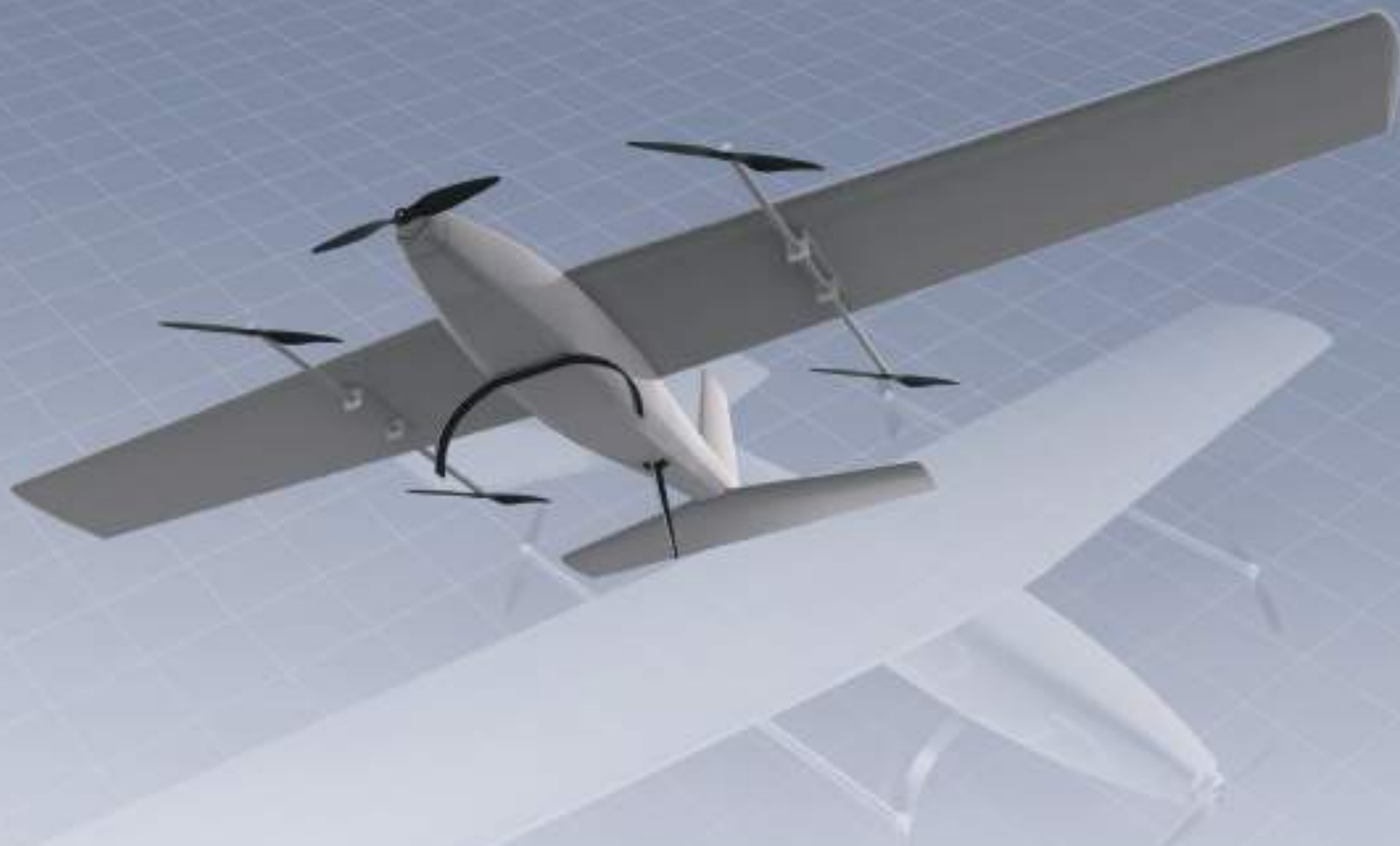
AIRAKS VTOL



V220 VTOL Introduction.....	2
V220 / V220 Surv-1 Technical Specifications.....	3
V220 / V220 Surv-1 Technical Specifications.....	4
V220 Surv-2 / V220 Surv-3 Technical Specifications.....	5
V220 Surv-2 / V220 Surv-3 Technical Specifications.....	6
V400Introduction.....	7
V410 / V410 Surv-1 Technical Specifications.....	8
V410 / V410 Surv-1 Technical Specifications.....	9
V220 / V400 Dimensions.....	10



V-220 VTOL



The V220 VTOL is a high-performance, multi-purpose composite drone product with a portable design. It is made of carbon fiber composite material. It is easy to disassemble, assemble, and takes up minimal space. Airaks VTOL models are fixed-wing UAV's that offer vertical takeoff and landing capabilities, especially used for observation purposes to stay in the air for extended periods and transfer imagery to the center. The V220 VTOL offers different packages, providing various purchasing options. These packages include different options that cater to different operational needs, allowing you to choose the UAV model that suits your operations or customize it according to your preferences to create the perfect V220 model tailored to your requirements. When you purchase the Airaks V220 VTOL, we provide you with spare parts such as propellers for emergency intervention, as well as Airaks technical support. With easy installation, remote technical support, and the ability to easily intervene in case of possible physical damage, the V220 VTOL ensures convenience.



V-220 Technical Specifications

	V220	V220 Surv-1
Camera Video Transfer Resolution	-	1080P
Optical Zoom	-	10X
Range Finder Measurement Range	-	-
Gimbal	-	3 Axis
Thermal Camera Resolution	-	-
LWIR	-	NO
Camera Operating Voltage	-	24V
Camera Power Consumption	-	6W
Camera Weight	-	365g
Camera Memory Card	-	32GB
Camera Video Output	-	Ethernet
Camera Interface	-	S.BUS
Camera AI & Tracking	-	-
Camera Dimension (L*W*H)	-	77x105x147mm
Camera Operating Temperature	-	-
Camera Storage Temperature	-	-
Maximum speed	22 m/s	22 m/s
Length (including rotor)	1260mm	1260mm
Rotor diameter	37,7mm	37,7mm
Height	500mm	500mm
Width	2140mm	2140mm
Engine Type	BLDC	BLDC
Integrated telemetry/video link	30 km	30 km
Battery	Lipo 11 Ah	Lipo 11 Ah
Payload	1.5kg	1.5kg



V-220 Technical Specifications

	V220	V220 Surv-1
MTOW	16kg	16kg
Max. Climb Rate	3 m/s	3 m/s
UAV maximum descent rate	10 m/s	10 m/s
Stall Speed (Fixed Wing UAV)	12 m/s	12 m/s
"Max. Wind speed at take off and landing"	7 m/s	7 m/s
Operational range	60km	60km
Practical ceiling	3000m	3000m
Endurance	90min	90min
Onboard power supply	22.2V	22.2V
Temperature range	"-20C ~ +50C"	"-20C ~ +50C"
Base Takeoff and landing area	4m x 4m	4m x 4m
Takeoff and landing	Fully Automatic & Manual	Fully Automatic & Manual
Ground based landing equipment	Not Required	Not Required
Storage Multicopter in container	25kg	25kg
Portable GCS	5kg (30km)	5Kg (30km)
Dustproof And Waterproof Level	IP54	IP54
"Duplication of satellite positioning systems GPS"	YES	YES
Antidrone jammer system	Optional	Optional



V-220 Technical Specifications

V220 Surv-2

V220 Surv-3

Camera Video Transfer Resolution	1080P	1080P
Optical Zoom	30X	30X
Range Finder Measurement Range	-	1800m
Gimbal	3 Axis	3 Axis
Thermal Camera Resolution	-	"-20C ~ +150C"
		704x576
LWIR	NO	YES
Camera Operating Voltage	24V	24V
Camera Power Consumption	8.4W	-
Camera Weight	800G	850G
Camera Memory Card	128GB	128GB
Camera Video Output	Ethernet	Ethernet
Camera Interface	S.BUS	S.BUS
Camera AI & Tracking	Target Track	AI & Target Track
Camera Dimension (L*W*H)	162x140x194mm	139.8x151.8x190.5mm
Camera Operating Temperature	"-20C ~ +60C"	"-20C ~ +60C"
Camera Storage Temperature	"-40C ~ +80C"	"-40C ~ +80C"
Maximum speed	22 m/s	22 m/s
Length (including rotor)	1260mm	1260mm
Rotor diameter	37,7mm	37,7mm
Height	500mm	500mm
Width	2140mm	2140mm
Engine Type	BLDC	BLDC
Integrated telemetry/video link	30 km	30 km
Battery	Lipo 11 Ah	Lipo 11 Ah
Payload	1.5kg	1.5kg



V-220 Technical Specifications

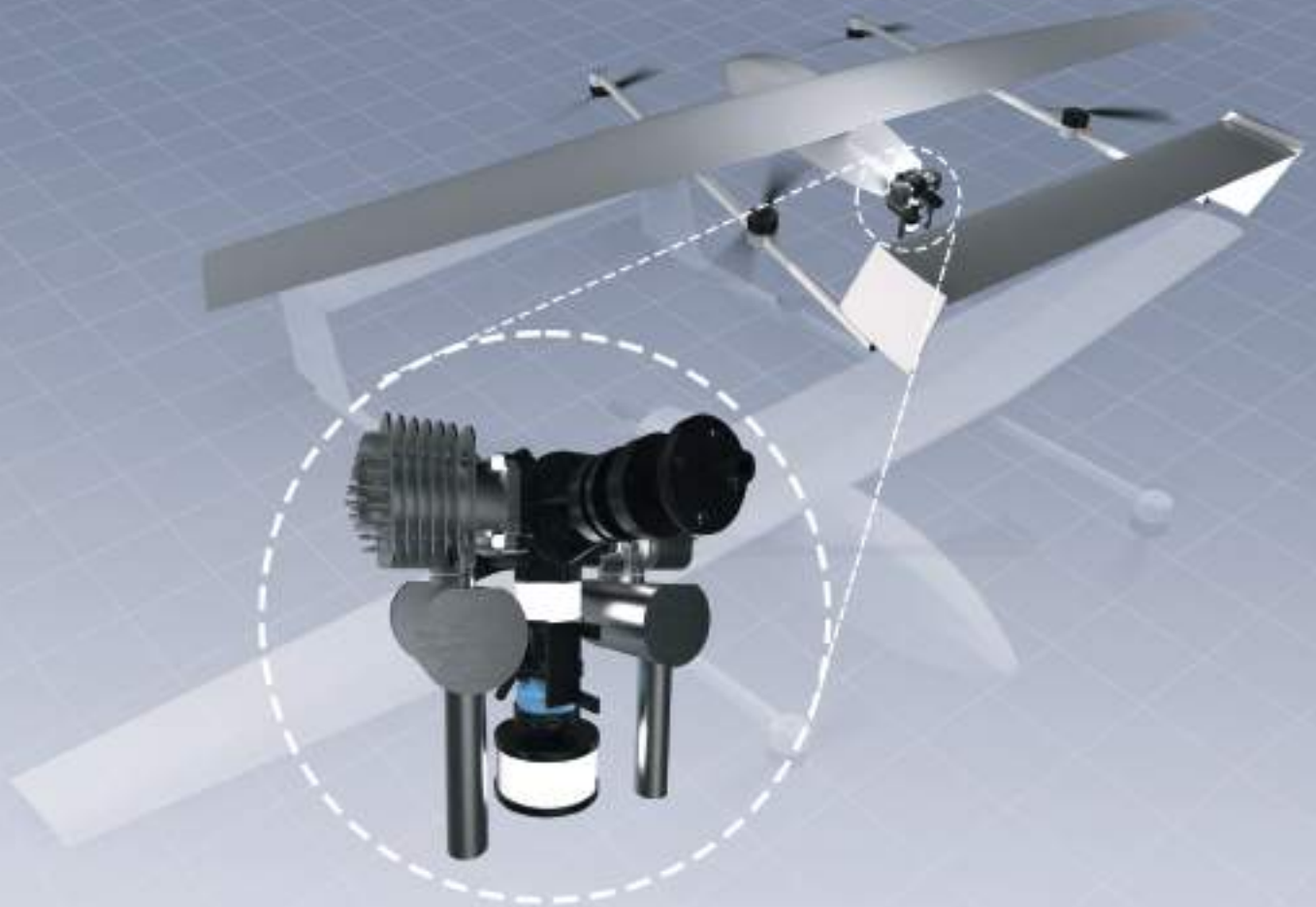
V220 Surv-2

V220 Surv-3

MTOW	16kg	16kg
Max. Climb Rate	3 m/s	3 m/s
UAV maximum descent rate	10 m/s	10 m/s
Stall Speed (Fixed Wing UAV)	12 m/s	12 m/s
"Max. Wind speed at take off and landing"	7 m/s	7 m/s
Operational range	60km	60km
Practical ceiling	3000m	3000m
Endurance	90min	90min
Onboard power supply	22.2V	22.2V
Temperature range	"-20C ~ +50C"	"-20C ~ +50C"
Base Takeoff and landing area	4m x 4m	4m x 4m
Takeoff and landing	Fully Automatic & Manual	Fully Automatic & Manual
Ground based landing equipment	Not Required	Not Required
Storage Multicopter in container	25kg	25kg
Portable GCS	5kg (30km)	5kg (30km)
Dustproof And Waterproof Level	IP54	IP54
"Duplication of satellite positioning systems GPS"	YES	YES
Antidrone jammer system	Optional	Optional



V-410 VTOL



Airaks VTOL models are fixed-wing UAVs that are specifically designed for vertical takeoff and landing, allowing for extended airborne time and transferring images to the center, particularly for observation purposes. The V-410 VTOL is available in two different package options to cater to your needs. The V-410 Surv-1 package offers distinct advantages compared to the standard V-410 package. One of the most notable advantages of the V-410 models over the VTOL in the V220 model is its hybrid engine, which can also operate on gasoline. Along with the Airaks ground station, it ensures greater operational efficiency and the ability to withstand challenging natural conditions. The V-410 engine provides a significantly longer flight time and operational duration. When you acquire the V-410 UAV, we provide you with spare parts that can be easily replaced in case of possible physical damages, such as propellers, and we also offer Airaks technical support.



V-410 Technical Specifications

	V410	V410 Surv-1
Camera Video Transfer Resolution	1080P	1080P
Optical Zoom	30X	30X
Range Finder Measurement Range	-	1800m
Gimbal	3 Axis	3 Axis
Thermal Camera Resolution	-	"-20C ~ +150C"
LWIR	NO	YES
Camera Operating Voltage	24V	24V
Camera Power Consumption	8.4W	-
Camera Weight	800G	850G
Camera Memory Card	128GB	128GB
Camera Video Output	Ethernet	Ethernet
Camera Interface	S.BUS	S.BUS
Camera AI & Tracking	Target Track	AI & Target Track
Camera Dimension (L*W*H)	162x140x194mm	139.8x151.8x190.5mm
Camera Operating Temperature	"-20C ~ +60C"	"-20C ~ +60C"
Camera Storage Temperature	"-40C ~ +80C"	"-40C ~ +80C"
Maximum speed	29 m/s	29 m/s
Length (including rotor)	2215mm	2215mm
Rotor diameter	30mm stroke	30mm stroke
Height	786mm	786mm
Width	4100mm	4100mm
Engine Type	Hybrid	Hybrid
Integrated telemetry/video link	150 km	150 km
Battery	"10 L Fuel Lipo 11 Ah"	"11 L Fuel Lipo 11 Ah"
Payload	5kg	5kg

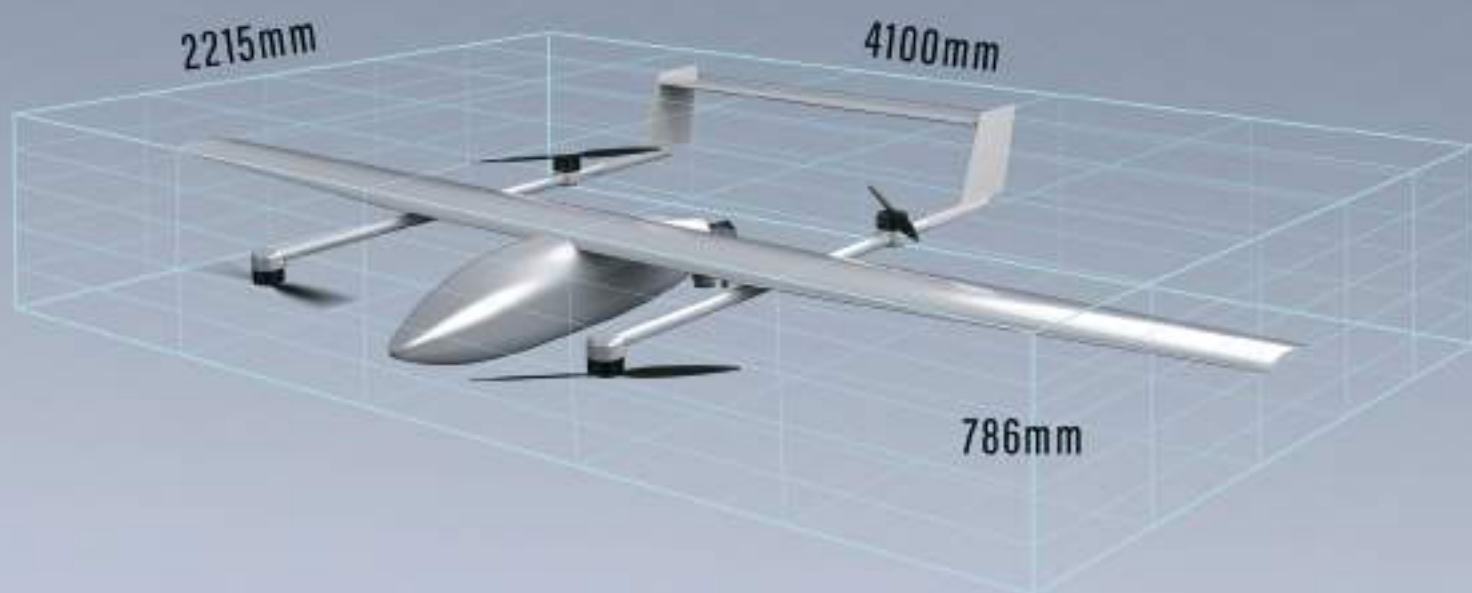


V-410 Technical Specifications

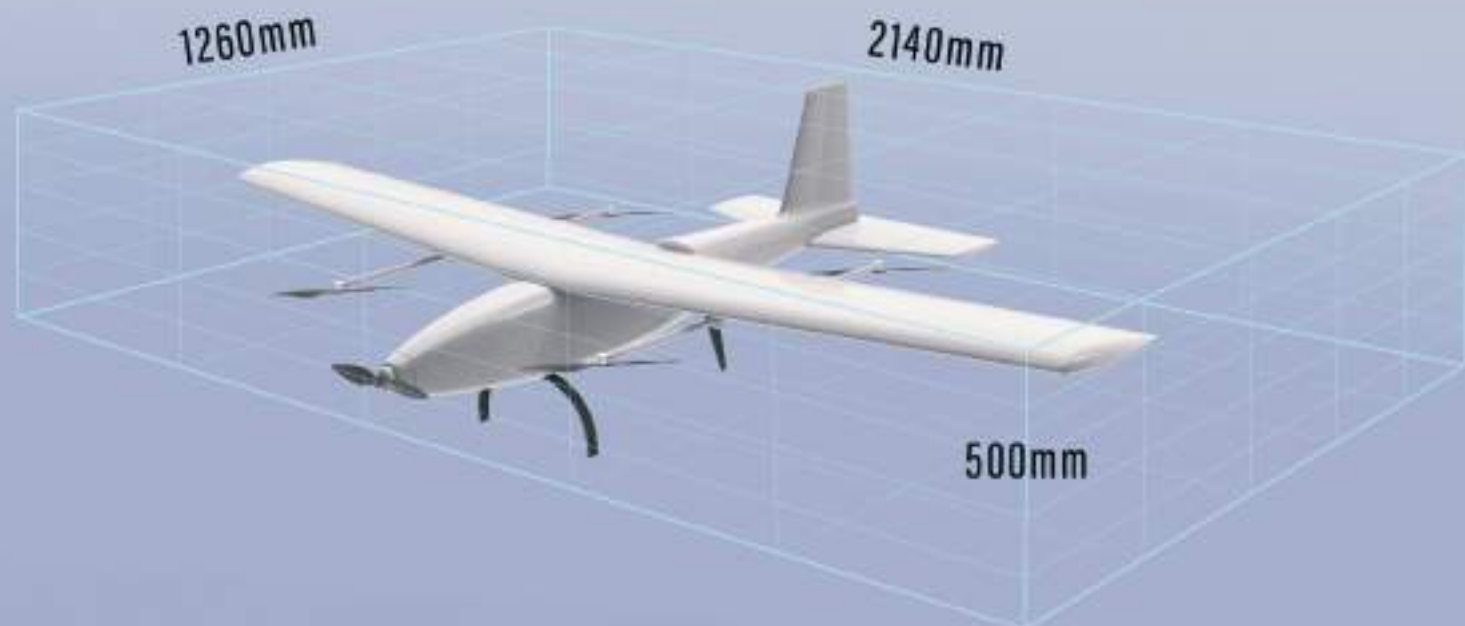
	V410	V410 Surv-1
MTOW	32kg	32kg
Max. Climb Rate	3 m/s	3 m/s
UAV maximum descent rate	10 m/s	10 m/s
Stall Speed (Fixed Wing UAV)	17 m/s	17 m/s
Max. Wind speed at take off and landing	10 m/s	10 m/s
Operational range	200km	200km
Practical ceiling	5000m	5000m
Endurance	600min	600min
Onboard power supply	48.8V	48.8V
Temperature range	"-20C ~ +50C"	"-20C ~ +50C"
Base Takeoff and landing area	5m x 5m	5m x 5m
Takeoff and landing	Fully Automatic & Manual	Fully Automatic & Manual
Ground based landing equipment	Not Required	Not Required
Storage Multicopter in container	45kg	45kg
Portable GCS	5kg (150km)	5kg (150km)
Dustproof And Waterproof Level	IP54	IP54
Duplication of satellite positioning systems GPS	YES	YES
Antidrone jammer system	Optional	Optional



V-220/V-410 VTOL DIMENSIONS



V-410



V-220



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