



U.S. Department
of Transportation
**Federal Aviation
Administration**

800 Independence Ave., S.W.
Washington, D.C. 20591

November 19, 2015

Exemption No. 12646A
Regulatory Docket No. FAA-2015-1602

Mr. Brandon Torres Declet
Measure, a 32 Advisors Company, LLC
1875 Connecticut Avenue, NW
10th Floor
Washington, DC 20009

Dear Mr. Declet:

This letter is to inform you that we have granted your petition for an amendment. It transmits our decision, explains its basis, and gives you the conditions and limitations of the exemption, including the date it ends.

It explains the basis for our decision, describes its effect, and lists the revised conditions and limitations.

By letters dated May 4, 2015 and June 8, 2015, you petitioned the Federal Aviation Administration (FAA) on behalf of Measure (hereinafter petitioner or operator) for an exemption. In the August 28, 2015 decision letter, the FAA granted Exemption No. 12646. That exemption from §§ 61.23(a) and (c), 61.101(e)(4) and (5), 61.113(a), 61.315(a), 91.7(a), 91.119(c), 91.121, 91.151(a)(1), 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b) of Title 14, Code of Federal Regulations (14 CFR) allows the petitioner to operate a UAS to perform aerial data collection. At the time, the FAA was unable to approve Attachment 2 (a list of 220 battery-powered aircraft). The FAA is now prepared to act on that request, as well as clarify the aircraft approved in the August 28, 2015 decision letter¹.

¹ The revised list of previously approved aircraft is included as Attachment 1. With the exception of the Yamaha RMAX, which was approved in Exemption No. 11448 to conduct commercial agricultural-related services, all aircraft previously approved in the August 28, 2015 decision letter are still approved. The Yamaha RMAX, which weighs more than 55 pounds, was approved for specific operations based on demonstrated history of aircraft use and operating procedures submitted by the petitioner.

The FAA has determined that good cause exists for not publishing a summary of the petition in the Federal Register because the requested amendment to the exemption would not set a precedent, and any delay in acting on this petition would be detrimental to the petitioner. The unmanned aircraft authorized in the original grant are comparable in type, size, weight, speed and operating capabilities to those in this petition.

Airworthiness Certification

The UAS proposed by the petitioner are the aircraft attached to the docket as Appendices 1 and 2, in addition to the aircraft approved by the Secretary of the Department of Transportation for operation under Section 333.²

In accordance with the statutory criteria provided in Section 333 of Public Law 112–95 in reference to 49 U.S.C. § 44704, and in consideration of the size, weight, speed, and limited operating area associated with the aircraft and its operation, the Secretary of Transportation has determined that this aircraft meets the conditions of Section 333. Therefore, the FAA finds that the requested relief from 14 CFR part 21, *Certification procedures for products and parts, Subpart H—Airworthiness Certificates*, and any associated noise certification and testing requirements of part 36, is not necessary.

Our Decision

The FAA has determined that the justification for the issuance of Exemption No. 12646 remains valid and is in the public interest. Therefore, under the authority contained in 49 U.S.C. 106(f), 40113, and 44701, delegated to me by the Administrator, the operator is granted an amendment to add new aircraft to its UAS operations.

The operator shall add this amendment to its original exemption.

Conditions and Limitations

All conditions and limitations within Grant of Exemption No. 12646 remain in effect except as follows. Condition No. 1 has been updated to reflect the additional aircraft.

Failure to comply with any of the conditions and limitations of this grant of exemption will be grounds for the immediate suspension or rescission of this exemption.

1. Operations authorized by this grant of exemption are limited to the aircraft approved by the Secretary of the Department of Transportation for operation under Section 333 (Attachments 1 and 2) when weighing less than 55 pounds including payload.

² The petitioner also proposed to operate additional gas powered UAS (Appendix 2). The FAA is assessing the fuel source and weight of these UAS. When the FAA completes its review, we will proceed accordingly and no further action will be required by the petitioner.

Proposed operations of any other aircraft will require a new petition or a petition to amend this exemption.

Unless otherwise specified in this grant of exemption, the UAS, the UAS PIC, and the UAS operations must comply with all applicable parts of 14 CFR including, but not limited to, parts 45, 47, 61, and 91.

This exemption terminates on August 31, 2017, unless sooner superseded or rescinded.

Sincerely,

/s/

John S. Duncan

Director, Flight Standards Service

Enclosures

Attachment 1

1. 3D Robotics Aero-M or Aero-M
2. 3D Robotics Iris
3. 3D Robotics Iris+
4. 3D Robotics X8
1. 3DRobotics Fixed Wing
2. 3DRobotics Multicopter
3. 3DRobotics Quadrotor
4. 3DRobotics Spektrum or 3D Robotics Spektrum Industrial Multi-Rotor Aerial Vehicle
5. 3D Robotics Solo or 3DR Solo
6. 3DRobotics X8+
7. 3D Robotics X8-M or X8-M
8. 3D Robotics Y6
9. Aerial Mob Heavy Lifter
10. Aerial Mob Light Lifter
11. Aerial Remote Mineral Detection System (ARMDS)
12. Aerialtronics Altura Zenith ATX8 or Aerialtronics Zenith with integrated Airware system
13. Aerigon
14. Aerobo
15. AeroCine Kopterworx Hammer X12 or Kopterworx Hammer X12
16. AeroLogix GeoStar
17. Aeromao AeroMapper 300
18. Aeromao Talon
19. Aeromao Aeromapper EV-2
20. AeroVironment Shrike or Shrike
21. AeroVironment Puma or Puma AE DDL
22. Aerovironment Qube
23. Aeronavics X4 Titanium
24. Aervonics Sky Jib
25. Aeryon Scout
26. Aeryon SkyRanger or Aeryon Sky Ranger
27. AgEagle
28. AgEagle Robotic
29. AgScout
30. AgScout Mini
31. Agribotix Hornet Drone
32. Agribotix Enduro Quad
33. AgriView VK Ranger EX or Viking Unmanned Aerial Systems, LLC AgriView VK Ranger EX or VK- Ranger EX- SAR Fixed Wing UAS
34. Aibotix Aibot X-6 or Aibot
35. Air Rover AR-300
36. AirCover QR-425s

37. AirRobot AR 180
38. AirRobot AR 100
39. AirRobot AR200
40. Air-X
41. Align M690
42. Altavian Nova F6500
43. Altavian Nova R8400
44. Altus X-4
45. Altus X-8
46. American Drones, LLC Eagle
47. Apprentice
48. Arch Aerial OCTO multi-rotor UAS
49. Arris hexacoper
50. AR-960 Hex Rotor
51. AR-540 Quad Rotor
52. ARF-MikroKopter OktoXL
53. ARF-MikroKopter OktoXL 6S12
54. ArrowLite
55. AscTec Falcon 8 or AscTec Falcon
56. Astraeus Aerial Cinema System V.3CS
57. Atlantic RC Aircraft LC047
58. Auburn War Eagle
59. Auburn EasyStar
60. AV44
61. Birdseyeview Firefly 6 or Fire Fly 6
62. Blade 350QX
63. Bixler 2
64. Boomerang Carbon Fiber Frame
65. Bormatec Maja UAV
66. BOSH Technologies Super Swiper
67. Bumblebee-S
68. C-Astral Bramor gEO
69. CarbonCore Octocopter 1000
70. Carbon Core Cortex Quadcopter
71. CCO w/Wkm M
72. Cinestar 6
73. Cinestar X8
74. Cinestar 8
75. Cinestar 8 HL
76. Cinestar 8 Okto XL
77. Coaxial Quad Multirotor VAO1-V1
78. Coaxial Quad Multirotor VAO2-V2
79. CopelandRED LLC Delta Wing Aircraft
80. CyberQuad Maxi

81. DJI Flame Wheel F450 or DJI F-450
82. DJI Flame Wheel F550
83. DAx8
84. DJI Inspire
85. DJI Inspire 1or DJI Inspire T600 or Q1
86. DJI Inspire 2
87. DJI Phantom
88. DJI Phantom 1
89. DJI Phantom 2
90. DJI Phantom 2+
91. DJI Phantom 2 Vision
92. DJI Phantom 2 Vision+
93. DJI Phantom Vision +
94. DJI Phantom 3
95. DJI Phantom FC40
96. DJI Spreading Wings S900
97. DJI Spreading Wings S1000
98. DJI Spreading Wings S1000+
99. DJI S800
100. DJI S800 EVO
101. Draganflyer Guardian
102. Draganflyer X4ES
103. Draganflyer X4P
104. Draganflyer X6
105. DT-18
106. DYS D800-X8
107. Eagle VTOL
108. E-Flite Apprentice
109. Event 38 E384
110. Falcon VTOL
111. First Aerial Responder - Sight
112. Flame Wheel G4 7.8 Skycrane or Multirotor G4 7.8 Skycrane
113. Flying-Cam 3.0 SARA H
114. Foxtech Kraken 130 V2 or K130 Octocopter
115. FreeFly Systems ALTA RTF
116. G4 Eagle
117. GerMAP G220
118. GerMAP G180
119. goFarm GF-1
120. Gryphon Dynamics X8
121. GT80X
122. Harris 18 HL
123. HEFF
124. Helios 960

125. HexaCrafter HC-1100
126. HexaCrafter HO-1250
127. HH Blade 350QX2 AP
128. Hobbyking "Bixler" Fixed Wing Trainer
129. HoneyComb AgDrone
130. Hoverfly LiveSky
131. Hoverfly BigSky 60
132. Hoverfly H-Frame
133. Hubsan X4 micro drone
134. HVP 14301 Multi Rotor
135. InovalDrone:Inova One
136. InspecTools X-8 or ITX8
137. InstantEye Mk-2
138. InstantEye Mk-2 Gen2
139. Intuitive Aerial Aeragon
140. KongCopter X8
141. Latitude HQ-4 Hybrid Multicopter
142. LB700
143. Leading Edge Precision Vision 10
144. Leptron Avenger
145. Lewis Realty Associates Hexacopter 650
146. Liberty 1
147. Lockheed Martin Desert Hawk III
148. Lockheed Martin Indago or Indago
149. MaxFlight
150. MD4-200
151. MD4-1000 or Frame Ronin Edition Microdrones:MD4-1000
152. Mikrokopter 2.5
153. MLB Company Super Bat
154. MU-1H
155. Multicopter G4 7.8 Skycrane
156. Nighthawk VTOL or Nighthawk
157. PAG X4
158. Parkzone Radian RTF
159. Parrot Bebop drone
160. Parrot PF 725100 Bebop Drone 14MP
161. Patriot X4
162. Patriot X8
163. Finwing Penguin V2
164. Phoenix VTOL or Phoenix
165. Phoenix 60
166. Phoenix 60LE
167. Pinnacel X Chameleon Pro
168. Precision Drone Pacesetter

169. PrecisionHawk
170. PrecisionHawk Hawkeye Mk-III or Hawkeye Mk-III
171. PrecisionHawk Lancaster
172. Precision Lancaster MK3
173. Prioria Hex
174. Prioria's Maveric
175. Pulse Aerospace, PA 01 Vapor
176. Pulse Aerospace Pulse Vapor 35
177. Pulse Vapor
178. PV 14817 Multi Rotor
179. PV HL1
180. PV HL2
181. Quadcopter LLC MikroKopter
182. Quiet UAV
183. R/C Rotors and Aerial Media: Matrix Prof. Multi Rotor Frame & Octo Heavy Lift
Prof. Multi Rotor
184. RCTimer Hexacopter
185. RDASS
186. REHawk 500
187. REHawk 680
188. Roboflight RF-70
189. Riegl RiCopter
190. RITEWING Z3 Spade 47"
191. Ritewing Drake 60"
192. RITEWING Z3 Spade 70"
193. RITEWING Z4 Spade 52"
194. Rotomotion SR-15
195. RV Jet
196. Scout X4
197. SD02
198. Seahawk 1.2
199. SelectTech Geospacial's EH-4
200. SenseFly eBee
201. SenseFly eBee RTK
202. SenseFly eXom
203. Sensurion Magpie MP-1
204. Service-Drone Recon One
205. Service-Drone Blackbird
206. SH 900
207. ShadowHawk
208. Sirius
209. SkyCatch
210. SkyJib 8 v.2 Heavy Lifter
211. SkyPhilly M1

212. Skywalker Aero
213. Skywalker Flying Wing X8
214. SnapRoll Media SUAS
215. Solutions Phoenix 30
216. SteadiDrone
217. Steadidrone QU4D
218. Steadidrone Mavrik
219. SuperX/P2 Multirotor
220. Swift Radioplanes Lynx
221. Tali 500
222. Talon 120LE
223. Tarot FY690S Hexacopter
224. Tarot quadcopter
225. Tarot 680pro
226. Tarot 690
227. Tarot 900
228. Tarot 960
229. Tarot T-15 or Tarot T15 C/F Folding Octocopter
230. Tarot T18 UAV
231. Tarot T810
232. Tarsier Systems MoAC
233. Tayzu Robotics Titan X8
234. Team Black Sheep Discovery Pro or TBS Discovery Pro
235. T-Rex 700E F3C
236. TREX 800E DFC PRO
237. Trimble UX5
238. Trimble UX5 hp
239. Trimble ZX5
240. Turnigy Talon 500
241. TUP X8-800
242. Turbo Ace CINEWING 6
243. TurboAce Matrix-G quadcopter
244. Turbo Ace matrix-E
245. Turbo Ace MATRIX-1
246. UAV Solutions Phoenix 60
247. Universeye Penguin
248. Unmanned Flying Rolling Orb “UFRO”
249. US2 GreenHawk
250. VA03-v1
251. VA04-v1
252. VA07-v1
253. Viking UAS Multicopter (VTOL)
254. Viking UAS FF-X4/X8 or VK-Patriot X4/X8 or Viking VK-FF-X4
255. VK-Patriot X4/X8

- 256. Viking UAS Patriot X4/X8 Multirotor
- 257. Viking UAS X6 Model 800
- 258. Viking UAS Viking ONE
- 259. VK-450
- 260. Viking Unmanned Aerial Systems, LLC AgriView VK Ranger EX
- 261. Viking VK-FF-X4
- 262. Volantex Raptor
- 263. Volt Aerial Robotics Octane
- 264. Vulcan frame controlled by a DJI A2 flight controller
- 265. Vulcan Mantis
- 266. Vulcan Raven
- 267. Walkera TALI H500 or Tali 500
- 268. Walkera Scout X4 or Scout X4
- 269. Wookong DJI 5800
- 270. xCel Drones XD550CDR
- 271. xFold Cinema
- 272. XFold Rig with four configurations: Quadcopter, Hexcopter, Octocopter and x12 Copter

Attachment 2

1. A2Tech RV-02
2. Adaptive Flight, Inc. Hornet Maxi
3. Advanced UAV Technology AT-100
4. Aero Composites Innovations R² / AS 20
5. Aero Composites Innovations V 250
6. Aerocon Inspector-201
7. Aerocon Inspector-301
8. Aeroland UAV, Inc. AL-4
9. Aeronautics Defense Systems Orbiter I
10. Aeronautics Defense Systems Orbiter II
11. AeroTactix Ltd. Skyzer 100
12. AeroTactix Ltd. Skyzer 450
13. Aerotekniikka UAV Oy M-011
14. Aeroterrascan Indonesia Ai-450
15. AeroVironment RQ-11A Raven
16. AeroVironment RQ-11B Raven
17. AeroVironment RQ-14A DragonEye
18. AGX Tecnologia Ltda Tiriba
19. AiDrones, GmbH AiD-H14
20. Airbus Defence and Space DVF 2000 (aka CARD)
21. Airbus Defence and Space Tracker (formerly DRAC)
22. Albatross Applied Aeronautics
23. Alcore Technologies Azimut 2
24. Alcore Technologies Biodrone
25. Allied Drones AW1 EOS
26. Alpha Unmanned Systems Commando
27. Alpi Aviation Strix
28. Altavian, Inc. Condor
29. Altavian, Inc. Nova Block III
30. Applewhite Aero Jago B
31. Applewhite Aero MILO
32. Applied Research, Inc. Mantra Bihrl
33. ARCTURUS UAV T-15e (JUMP 15)
34. AttoPilot, LLC Devil Ray
35. AttoPilot, LLC Jackaroo
36. AttoPilot, LLC Mini Devil Ray
37. AttoPilot, LLC. Foamaroo
38. Aurora Flight Sciences Corporation Skate SUAS
39. Aurora Integrated Systems Urban View
40. Autonomous Flight Technologies HIRBUS
41. Baykar Makina Malazgirt
42. Beijing Always Flying Technology Co., Ltd Free Bird

43. Beijing Always Flying Technology Co., Ltd Single Soldier I
44. Beijing Chunyi Aviation Technology Co., Ltd. CY-01H Huaying
45. Beijing Chunyi Aviation Technology Co., Ltd. CY-01V Huaying
46. Beijing Chunyi Aviation Technology Co., Ltd. CY-04 Raven
47. Beijing Creaton Tech Co., Ltd.T10 Hornet
48. Beijing Creaton Tech Co., Ltd.T10S
49. Beijing Creaton Tech Co., Ltd.T15
50. Beijing Creaton Tech Co., Ltd.T20
51. Beijing Creaton Tech Co., Ltd.T-EZ
52. Beijing Pilotless UAV Technology Co., Ltd PLT05.
53. BlueBird Aero Systems MicroB
54. BlueBird Aero Systems SpyLite
55. BlueBird Aero Systems WanderB
56. Bonn Hungary Electronics Ltd. BXAP15
57. Bormatec MAJA
58. BOSH Technologies Condor/Condor A
59. BOSH Technologies Swiper
60. Brandebury Tool Company, Inc. Scythe
61. Brican Flight Systems, Inc. TD100E
62. Brock Technologies, Inc. BT20 EEL
63. Brock Technologies, Inc. SPEAR
64. Carbon-Based Technology, Inc. Avian
65. C-ASTRAL, Inc. Bramor C4EYE
66. CATUAV Argos Electric
67. CATUAV Atmos-6
68. Chuguev Aircraft Repair Plant Strepet-LK
69. CiS GmbH Ikarus
70. Codarra Advanced Systems AVATAR
71. Composites Technology Research Malaysia Sdn. Bhd ALUDRA SR-08
72. Cranfield Aerospace Cassius
73. CyberFlight CyberEye I
74. CyberFlight E-Swift Eye
75. CyberFlight Zygo
76. Defence Research and Development Organisation Imperial Eagle
77. Defence Research and Development Organisation Slybird A
78. Defence Research and Development Organisation Slybird B
79. Delair-Tech DT-26
80. Dragonfly Pictures, Inc.DP-6XT Whisper
81. Drone America, Inc. Muninn
82. Drone Aviation Corp WATT-200
83. DroneMetrex Pty, Ltd.TopoDrone-100
84. Dronetech, LLC.AV-2 Pelican
85. Dutch Space BV Man-Portable Aerial Terrain Explorer (MATE)
86. Echar 20A XMobots Robotics Systems

87. Ejercito de Chile Lascar
88. Elbit Systems Skylark 1-LE
89. ELIMCO E100
90. ELIMCO E200 Scan
91. ELIMCO E300 Viewer
92. Embention W200
93. ENICS JSC T10E "Eleron-10"
94. ENICS JSC T23E "Eleron-3"
95. EXPACE SHEPHERD
96. EXPACE SHEPHERD-MIL
97. Falcon UAV Falcon UAV
98. Fiberflight Systems S.L.Victor Mk II
99. Fiberflight Systems S.L.Victor Mk III
100. Fibre Flight Ltd. SENTINEL
101. Flying Production, Ltd.Da Vinci
102. Fly-N-Sense Seeker 1300
103. FlyTop Srl FlyMax
104. FlyTop Srl FlySecur
105. Fuji Imvac Inc. D-5
106. GeoScan GeoScan 101
107. GeoScan GeoScan 201
108. GeoScan GeoScan 401
109. Global Flight Systems Eos-alpha
110. Global Flight Systems Eos-beta
111. Global Teknik Havacilik GLOBIHA
112. GreenX Bald Eagle
113. Guangzhou Walkera Technology Co. LTD QR X800
114. Guided Systems Technologies, Inc.SiCX-12
115. Hanseatic Aviation Solutions GmbH S180Mk.2
116. Hawkeye UAV RQ-84Z AreoHawk
117. Hobby UAV Techpod
118. Horizons Aerial Technologies KIWITWide
119. Ideon BSK Defense
120. IDETEC Unmanned Systems Stardust II
121. IDS Ingegneria Dei Sistemi S.p.A. IA-17C Manta
122. INDRA SISTEMAS SA Mantis
123. Ingenieurgesellschaft ALADIN EMT
124. Innocon MicroFalcon LP
125. Innocon Spider
126. Instytut Techniczny Wojsk Lotniczych Nietoperz-3L (Bat-3L)
127. Integrated Dynamics Spirit
128. Irkut Irkut-2M
129. Irkut Irkut-3
130. Israel Aerospace Industries Bird Eye 400

131. Israel Aerospace Industries Bird Eye 650
132. Kadet Defence Systems FireBee
133. KWT-X6L
134. Lockheed Martin Corporation Stalker
135. Lockheed Martin Corporation Stalker XE (eXtreme Endurance)
136. Luch Design Bureau / KB Lutch Swallow
137. Marcus UAV Zephyr 2
138. Maryland Aerospace, Inc. VectorWing 100
139. MAVTech Microhawk MH850
140. Mission Technology Systems, LLC. Blacklight (E-BUSTER)
141. MKU Pvt. Ltd. TERP-2
142. NELK Lapwing
143. Northern Virginia OmniVersatile Solutions NVOS UAV (N-Cognito)
144. Nostromo Defensa Cabure
145. Nostromo Defensa Centinela
146. Nostromo Defensa Yagua
147. OJSC Grusha Izhmash
148. OM UAV Systems Baaz
149. Optimum Solutions Condor 300
150. Oto Melara SPA Oto-Horus
151. Patria Oy MASS Mini-UAV
152. QuestUAV Ltd. QuestUAV 300
153. Raytheon Company Coyote
154. Reference Technologies, Inc. HUMMINGBIRD I
155. RoboFlight Systems, Inc. RF70
156. Robota, LLC. Supernova
157. Robota, LLC. Triton
158. Rotomotion, LLC SR 20
159. RP Flight Systems Spectra SkyCamo
160. Santos Lab Orbis
161. Selex ES S.p.A Crex-B
162. Sensintel Silver Fox
163. Sierra Pacific Innocations E2 Micro-UAV
164. Silent Falcon UAS Technologies Silent Falcon
165. Singapore Technologies Aerospace Skyblade III
166. Siralab Robotics S.r.l. H3
167. Skycam UAV NZ Limited Kahu
168. SmartPlanes AB Personal Area Mapping System (PAMS)
169. SmartPlanes AB SmartOneC
170. Surveillance and Target Unmanned Aircraft Stingray
171. Surveillance and Target Unmanned Aircraft Stingray
172. SurVoyeur mk-II
173. Swallow Systems Skimmer MK-I
174. Swallow Systems Skimmer MK-II

175. System Consultancy Services AGAS 2.0
176. Tasuma (UK) Ltd. CSV-15
177. Tasuma (UK) Ltd. Hawkeye II
178. Tasuma (UK) Ltd. Hawkeye III
179. TATA Advanced Systems Limited Aquilon
180. TEKEVER AR1 Blue Ray
181. TEKEVER AR2 Carcará (formerly AR2 Power Ray)
182. TEKEVER AR4 Light Ray
183. Threod Systems, Ltd. EOS
184. Threod Systems, Ltd. X8
185. Top I Vision Casper 250
186. Trigger Composites Pteryx
187. UAS Europe AB Spy Owl 100
188. UAS Europe AB Spy Owl 200 (formerly mX-Sight)
189. UAV Factory, Ltd. Penguin BE
190. UAV Inc. E950 Challis Heliplane
191. UAV Research Lab. Silhouette
192. UAV Solutions, Inc. Talon 120
193. UAVision WINGO S
194. Uconsystem RemoEye-002B
195. Uconsystem RemoEye-006
196. Ukrspecexport Sokil-2
197. Universal Target Systems Ltd Vigilant (Spotter)
198. University of Colorado at Boulder DataHawk
199. Unmanned Systems Pioneer
200. Unmanned Systems Supercam S350 / Photobot
201. Utah State University Minion
202. Utah State University Titan
203. UTC Aerospace Systems Option
204. UTC Aerospace Systems Vireo
205. Vestel Defence Industries EFE
206. Volt Aerial Robotics WaveSight
207. VTOL Technologies Urban Eagle
208. WB Electronics S.A.FlyEye
209. Wide Horizons Aerial Technologies
210. Wildau Bully/ATISS TFH
211. Wuhan AI Bird UAV Co., Ltd KC-09
212. Wuhan AI Bird UAV Co., Ltd KC-1600 Sky Hawk
213. Xi'an ASN Technology Group ASN-217
214. Zala Aero Group ZALA 421-04M
215. Zala Aero Group ZALA 421-04M2F
216. Zala Aero Group ZALA 421-08
217. Zala Aero Group ZALA 421-08M / ZALA 421-08F
218. Zala Aero Group ZALA 421-16E

- 219. Zala Aero Group ZALA 421-16EM
- 220. Zero UAV (Beijing) Intelligence Technology Co. Ltd. ZERO1600