



NOTIFY ISSUE #97 (PUBLIC)

WEEKLY THREAT INTELLIGENCE

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UAS HACKING, HARDENING AND DEFENCE

DOCUMENT **CONTROL**

PREPARATION

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1. THREAT INTELLIGENCE

1.1. FEATURED ADVISORIES

The prioritisation table and its dependencies are explained in Appendix A, and relate to how we filter, analyse and visualise the intelligence we collect.



Figure 1: Can't see this? Contact us to sign up for Notify PRIVATE



Figure 2: Can't see this? Contact us to sign up for Notify PRIVATE

1.2. NON-CONFLICT NEWS AND EVENTS (P3)

Hull, UK, issues warning against illegal drone flying over Hull Fair after numerous drone sightings

<https://www.hulldailymail.co.uk/news/hull-east-yorkshire-news/hull-city-council-issues-warning-6056250>

Manned pilot reports sighting drone 20 to 50 feet above aircraft at 3,000ft, Rhode Island, USA

<https://turnto10.com/news/local/rhode-island-pilot-describes-moment-a-drone-nearly-struck-his-small-plane>

Chinese man fined 500 Yuan for flying drone near Yangjiang Railway Station

<https://kanzhaji.com/news/flysafe/62634.html>

Drone spotted at 1,300ft, 1.6km away from Windsor Airport runway, Canada

<https://avrodex.com/view/2021O1569>

Two drones spotted near Noi Bai International Airport in Vietnam

<https://tuoitrenews.vn/news/society/20211013/foreign-objects-violate-noi-bai-airports-airspace-in-hanoi/63561.html>

Signage on no drone zone for Aberdeen Airport erected due to increased drone activities

<https://www.grampianonline.co.uk/news/new-signage-installed-to-raise-awareness-about-drone-use-res-254441/>

Mysterious white lights over Paterson could be strayed drones from drone light show practice



Figure 3: White lights seen over Paterson, USA

<https://pix11.com/news/local-news/new-jersey/mysterious-flying-white-circles-over-nj-spark-conspiracy/>

Manned aircraft pilot reports taking evasive action to avoid drone at 1,600ft, Canada

<https://avrodex.com/view/2021Q2848>

Illegal drone spotted by airport tower and aircraft pilot at Toronto Pearson Airport, Canada

<https://avrodex.com/view/2021O1607>

1.3. CONFLICT NEWS AND EVENTS (P3)

LPR and DPR quasi-state rebel groups found using Russian made Grenade-1 suicide drones



Figure 4 & 5: Grenade-1 drone captured by Ukrainian forces

<https://www.ukrinform.net/rubric-defense/3332318-combat-drone-downed-at-contact-line-russianmade-sbu-experts.html>

Arab Coalition intercepted two Houthi suicide drones targeting Jazan, Saudi Arabia

<https://www.arabnews.com/node/1948131/saudi-arabia>

Azerbaijan reports intercepting and shooting down Armenian DJI Mavic quadcopter drone

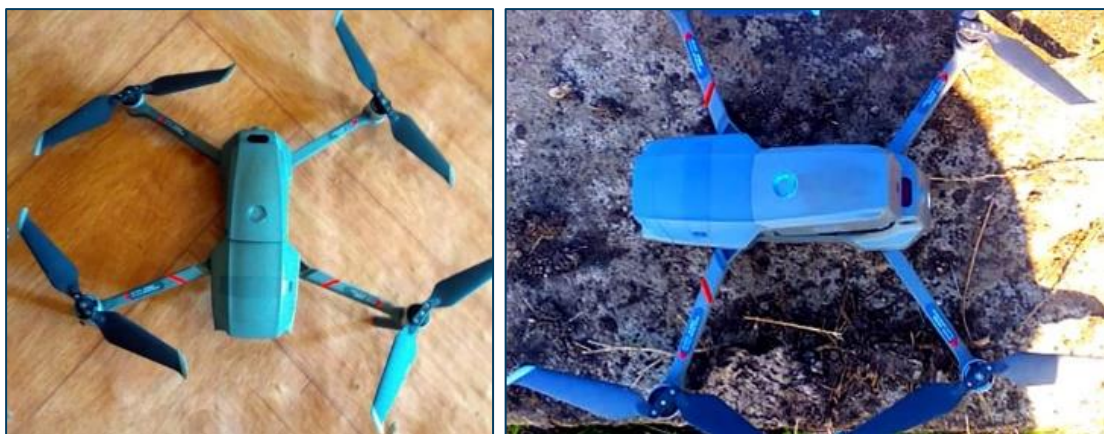


Figure 6 & 7: Alleged Armenian DJI Mavic seized by Azerbaijani forces

<https://www.news.az/news/azerbaijan-intercepts-uav-of-illegal-armenian-armed-groups-photo>

Armenia dismisses Azerbaijani claim of capturing quadcopter drone

<https://en.armradio.am/2021/10/14/artsakh-dismisses-azerbaijani-claims-of-having-captured-armenian-drone/>

1.4. SOCIALS (P3)

Russian Orlan-10 drone shot down over Marea, North Aleppo, Syria



Figure 8 & 9: Orlan-10 shot down by Syrian Army over Marea, Aleppo

<https://t.me/warjournaltg/10446>

Drone flies over crowd, captures footage of protest in Perth, Australia

https://www.youtube.com/watch?v=ryl9GZ7_acQ

Possible drone flight at 2,700ft at high speed over Zhongshan China

<https://twitter.com/812Z/status/1448512787991326725>

Rutgers University showcase drone capable of navigating underwater and in air

<https://twitter.com/mvollmer1/status/1448880666599383045>

Syrian Army downs two drones with improvised explosive devices in Idlib



Figure 8: Two custom made and modified drones with explosives shot down by Syrian Army over Idlib

<https://t.me/tavocr47/908>

1.5. WHITEPAPERS, PUBLICATIONS & REGULATIONS (P4)

Jamaica CAA expresses difficulty in bringing offending drone operators to book (Commentary)

<https://jamaica-gleaner.com/article/news/20211016/privacy-concerns-mount-amid-lacking-drone-legislation>

FCC Commissioner labels DJI as “Huawei” with potential espionage of USA data (Commentary)

<https://bgr.com/politics/fcc-commissioner-calls-for-ban-on-dji-drones/>

INTERPOL, Avinor, UAS Norway and Norwegian Police hold Anti-Drone Exercise (Commentary)

<https://www.uasnorway.no/droner-og-fly-i-luften-samtidig-under-unik-ovelse-pa-osl/>

Responding to Drone Calls: Guidance for Emergency Communication Centers

<https://www.cisa.gov/sites/default/files/publications/Responding%20to%20Drone%20Calls%20Guidance%20for%20Emergency%20Communications%20Centers.pdf> (PDF Document)

1.6. COUNTER-DRONE SYSTEMS (P4)

Belgian police undertake Skyfall counter-drone exercise

<https://www.hln.be/antwerpen/burgemeester-bart-de-wever-gebruikt-anti-droneapparaat-tijdens-opleiding-skyfall-van-politiezone-antwerpen~a33f37d5/>

Russian UAV Countermeasures: Electronic Countermeasure Equipment (Commentary)

<https://dfnc.ru/en/journal/2021-4-69/russian-uav-countermeasures-electronic-countermeasure-equipment/>

Korea Hydro & Nuclear Power Company to install anti-drone system to jam illegal drones

<https://koreajoongangdaily.joins.com/2021/10/20/national/defense/antidrone-jamming-system-korea/20211020050002045.html>

Why state and local law enforcement need legal authority to counteract dangerous drones

<https://www.police1.com/police-products/police-drones/articles/why-state-and-local-law-enforcement-needs-legal-authority-from-congress-to-counteract-dangerous-drones-Cer6e9HCGbfZvDRr/>

AGOS and WhiteFox partner for Drone Security Solutions in South Korea

<https://www.suasnews.com/2021/10/agos-and-whitefox-partner-for-drone-security-solutions-in-the-republic-of-korea/>

1.7. UTM SYSTEMS (P5)

Hogreen Air controls drones 9,000km away using 5G/LTE network from California to South Korea

<http://koreabizwire.com/s-korean-drone-developer-succeeds-in-controlling-drone-9000-kilometers-away/201839>

South Korea to introduce fixed corridors for UAM operations

<https://www.unmannedairspace.info/latest-news-and-information/south-korea-plans-to-introduce-fixed-corridors-for-early-unmanned-aerial-mobility-operations/>

1.8. INFORMATIONAL (P5)

Man charged for attempted homicide open fire at police drone, Missoula, USA

<https://www.kpax.com/news/crime-and-courts/attempted-homicide-charge-filed-following-incident-near-florence>

New South Wales invest AUD\$57 million in drones to boost emergency and fire services

<https://www.9news.com.au/national/nsw-bushfires-fireball-dropping-drones-part-of-new-technology-upgrades-for-firefighters/4493456c-6532-432f-9901-f281adeaca40>

Thermal imaging drone used to locate lost man in dense forest, Langlade County, USA

<https://www.weau.com/2021/10/15/drone-plays-crucial-role-search-missing-hunter-rural-langlade-county/>

Police drones deployed to look for missing 4-year-old girl at Quobba Blowholes, Australia

<https://thewest.com.au/news/disaster-and-emergency/cleo-smith-search-police-drones-used-to-search-blowholes-near-where-four-year-old-went-missing-ng-b882043300z>

Odisha prisons may have drones deployed to monitor and watch out for illegal activities, India

<https://timesofindia.indiatimes.com/city/bhubaneswar/odisha-plans-drone-cameras-for-jail-security-set-to-start-prisoner-calling-system/articleshow/87112087.cms>

Warwickshire Police deploy drones to catch illegal bike races, United Kingdom

<https://www.coventrytelegraph.net/in-your-area/drones-used-catch-nuisance-bikers-21888940>

Clare Civil Defence deploys DJI Inspire drone to search for missing person, Ireland

<http://clareherald.com/2021/10/civil-defence-drone-team-locates-missing-person-63524/>

DJI Matrice 300 helps Colma PD track burglar in San Mateo County, USA

<https://patch.com/california/redwoodcity-woodside/drone-helps-san-mateo-county-deputies-nab-burglary-suspect>

Missing woman found with assistance from North Wales Police Drone Unit, UK

<https://www.rhyljournal.co.uk/news/19657177.missing-woman-safe-well-drone-dogs-used-search/>

1.9. DRONE TECHNOLOGY (P5)

China's new stealth drone, GJ-11, designed to launch and network multiple drones for strike

<https://wonderfulengineering.com/this-new-long-range-chinese-stealth-drone-can-launch-swarms-of-decoys/>

China's Zhuhai Air Show reveals Rainbow-817, a cylindrical 870g suicide drone

<https://inf.news/en/military/2693f7f2f1da27a173dfcf5b34744d1b.html>

For Appendix items please click [this link](#).