

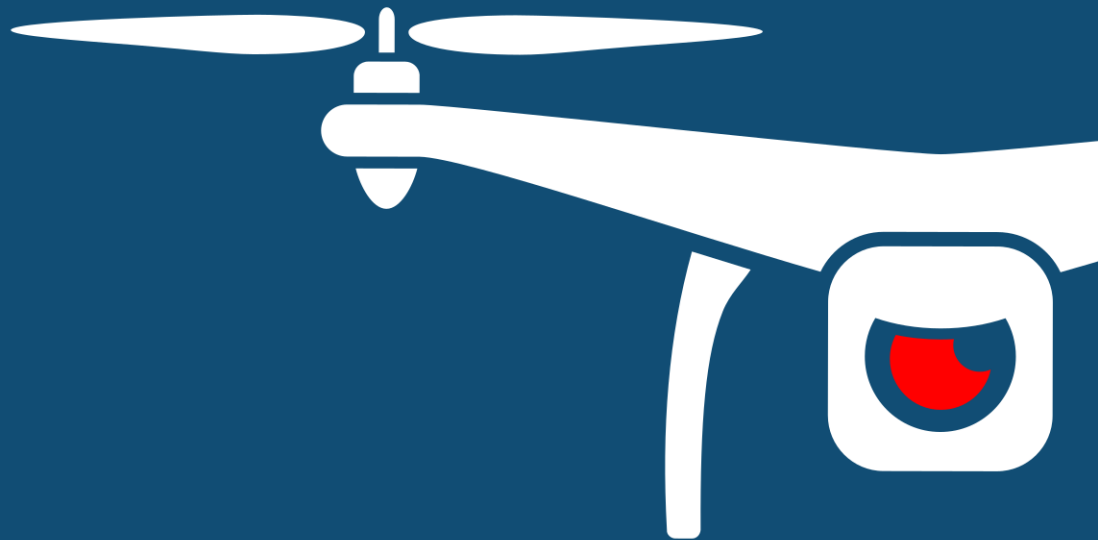


# DRONE SEC

**NOTIFY ISSUE #95 (PUBLIC)**

**WEEKLY THREAT INTELLIGENCE**

07 Oct 2021 | v1.0 RELEASE



**UAS HACKING, HARDENING AND DEFENCE**

# DOCUMENT CONTROL

## PREPARATION

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# 1. THREAT INTELLIGENCE

## 1.1. MONTHLY ROLL-UP

As we enter a new month, Notify features an aggregated summary of drone incidents, types and affected sectors in 2021 and collated numerical data on drone incidents. Extended analytics with full database-searchable functionality is only offered to our paid members via the [DroneSec Notify Platform](#).

Below you will find some handy statistics to measure correlation, location and systems involved over data we have collected for September 2021. Anything we have missed? Anything you would like to see? Drop us a note at [info@dronesec.com](mailto:info@dronesec.com) to get in touch with the team.



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

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

Figure 3: A line chart showing data points over time. The chart is intentionally blurred to illustrate that certain information is obscured or redacted in the public version of the report.

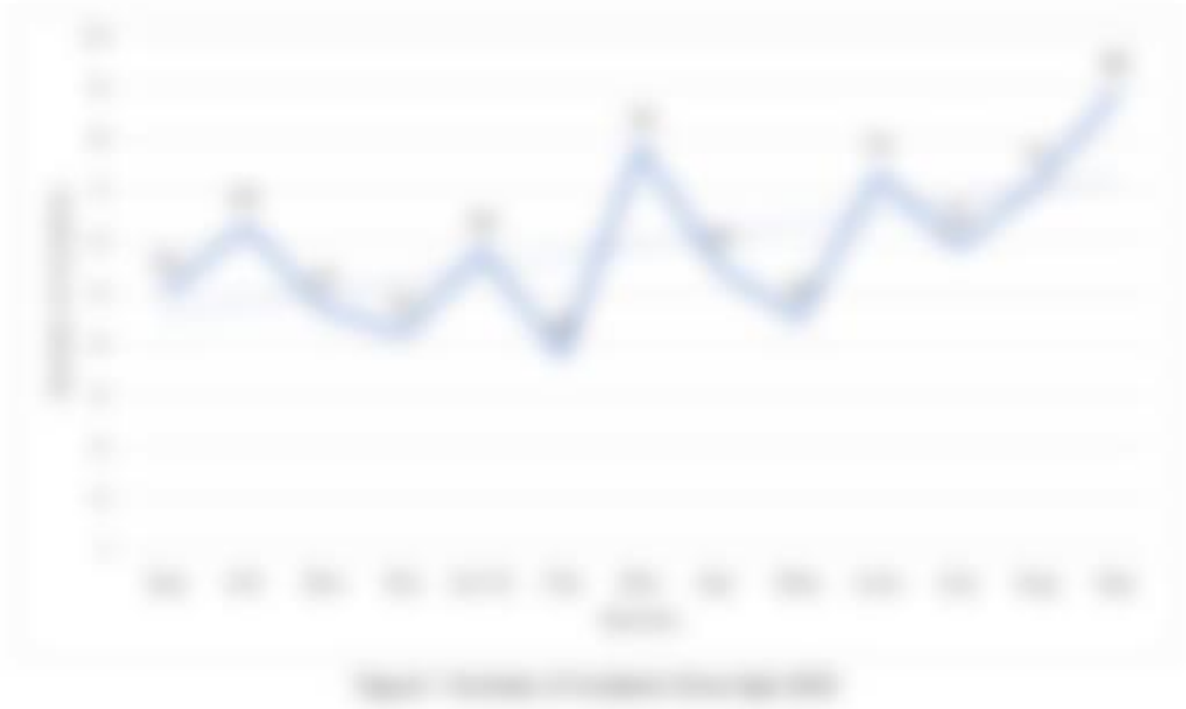


Figure 3: Can't see this? Contact us to sign up for Notify PRIVATE

DRONESEC is a leading provider of threat intelligence solutions for the defense and intelligence communities. Our Notify platform provides real-time threat intelligence and alerts to help protect your organization from cyber threats.

Category	Sub-category	Value	Value	Value	Value	Value	Value
Category 1	Sub-category 1	10	20	30	40	50	60
Category 2	Sub-category 2	15	25	35	45	55	65
Category 3	Sub-category 3	20	30	40	50	60	70
Category 4	Sub-category 4	25	35	45	55	65	75



Figure 4: Can't see this? Contact us to sign up for Notify PRIVATE

DRONESEC is a leading provider of threat intelligence solutions for the defense and intelligence communities. Our Notify platform provides real-time threat intelligence and alerts to help protect your organization from cyber threats.



PROPRIETARY - UNRESTRICTED

Figure 5: Can't see this? Contact us to sign up for Notify PRIVATE



Figure 5: Can't see this? Contact us to sign up for Notify PRIVATE





Figure 6: Can't see this? Contact us to sign up for Notify PRIVATE

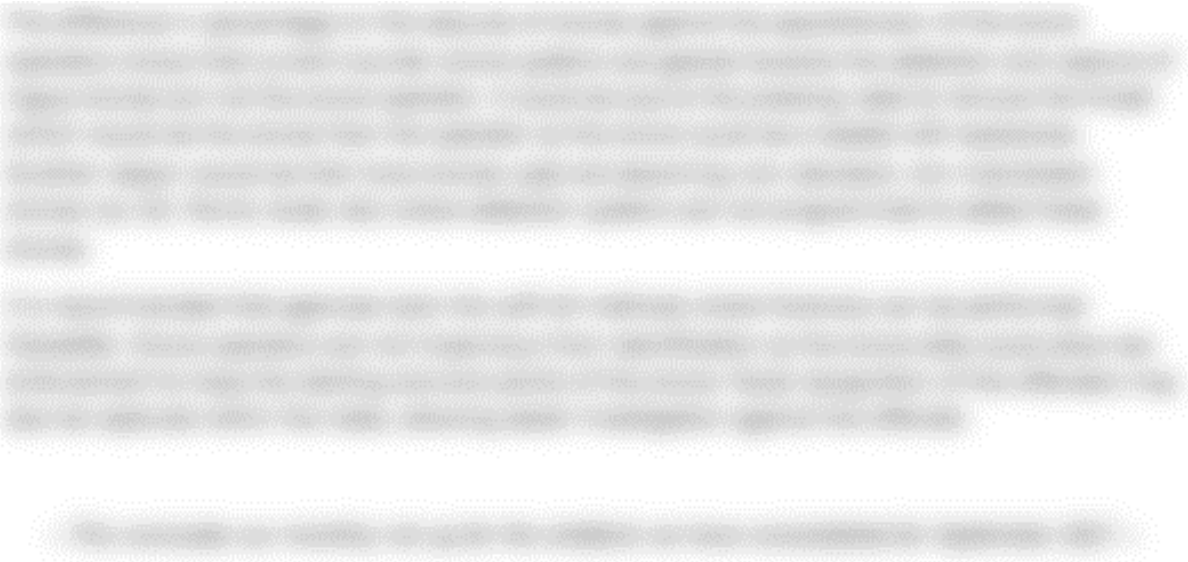


Figure 7: Can't see this? Contact us to sign up for Notify PRIVATE

## 1.2. 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 8: Can't see this? Contact us to sign up for Notify PRIVATE

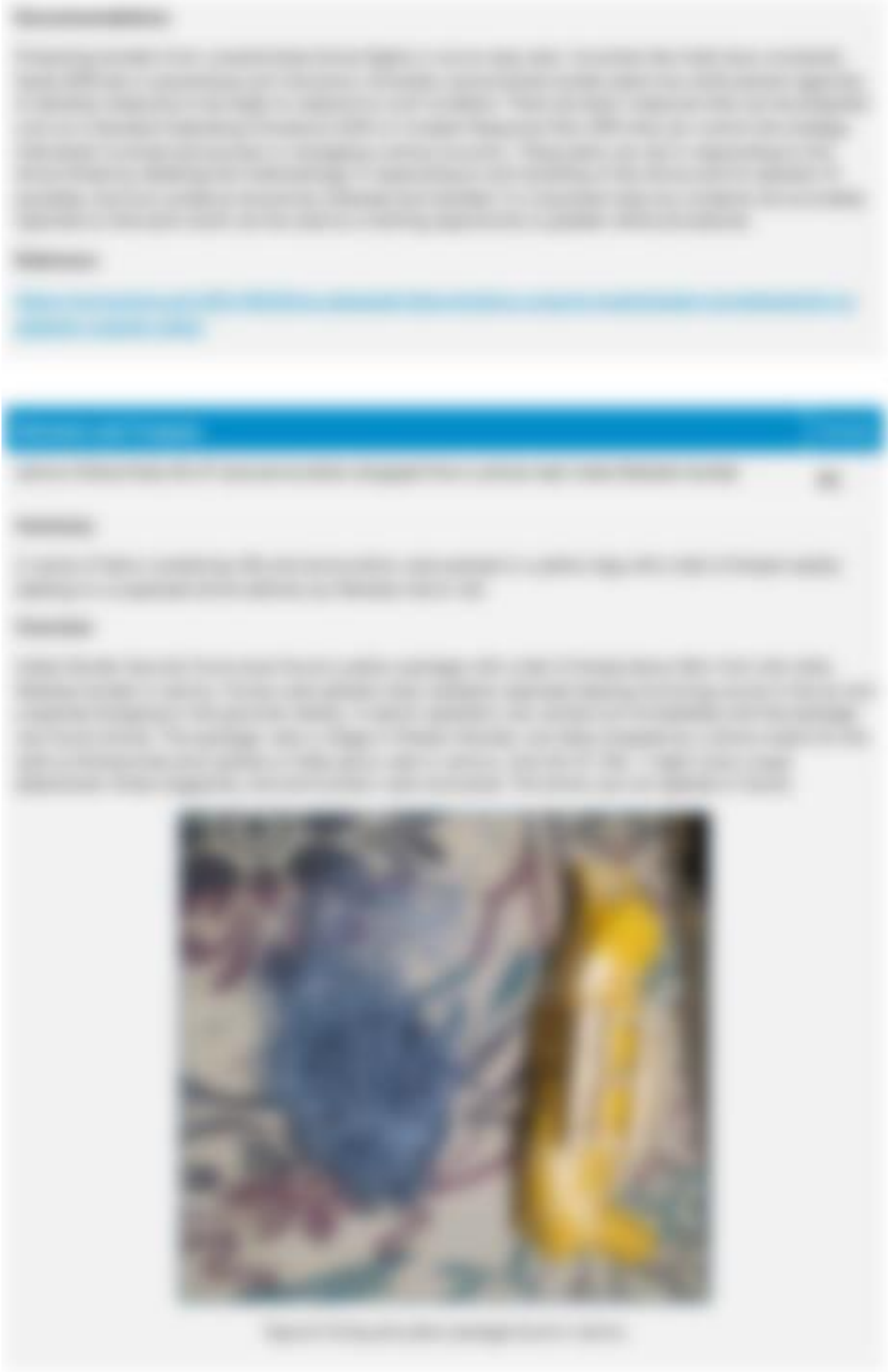


Figure 9: Can't see this? Contact us to sign up for Notify PRIVATE



Figure 10: Can't see this? Contact us to sign up for Notify PRIVATE

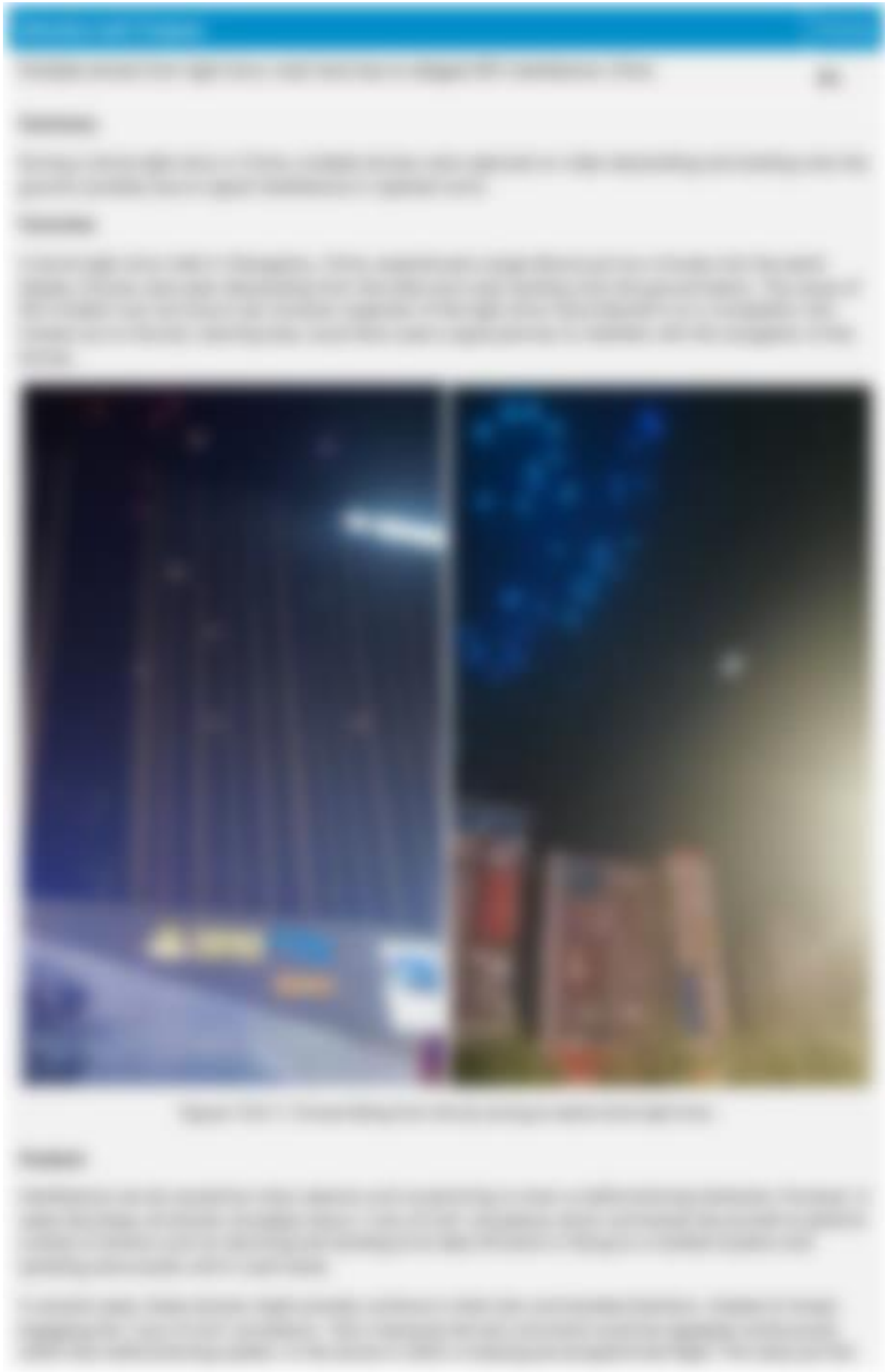


Figure 11: Can't see this? Contact us to sign up for Notify PRIVATE



Figure 12: Can't see this? Contact us to sign up for Notify PRIVATE

### 1.3. NON-CONFLICT NEWS AND EVENTS (P3)

#### **Three tourists apprehended for flying drone in NFZ of Taj Mahal, India**

<https://timesofindia.indiatimes.com/city/agra/agra-3-tourists-detained-for-flying-drone-near-taj-mahal-released-after-warning/articleshow/86650458.cms>

#### **Man charged for shooting flight approved and contracted drone inspecting utility poles, USA**

<https://www.mytwintiers.com/news-cat/local-news/sayre-man-allegedly-shoots-down-drone-charges-expected-to-be-filed/>

#### **French tourist arrested for crashing drone in Leaning Tower of Pisa, Italy**

<https://www.bufale.net/schianta-drone-sulla-torre-di-pisa-denunciato-25enne/>

#### **Two arrested for firing arrows at an authorised movie film drone from balcony, Canada**

<https://toronto.ctvnews.ca/two-charged-after-arrows-allegedly-fired-at-drone-from-balcony-toronto-police-1.5607692>

#### **MEDEVAC plane reports sighting drone at 7,200ft during approach into Calgary Airport, Canada**

<https://avrodex.com/view/2021C3905>

#### **Man apprehended for flying drone at Punjab Raj Bhawan during protest, India**

<https://www.hindustantimes.com/cities/chandigarh-news/drone-spotted-during-protest-outside-punjab-raj-bhawan-101633374311967.html>

## 1.4. CONFLICT NEWS AND EVENTS (P3)

### Destroyed Houthi drone rains shrapnel over residential area in Jazan, Saudi Arabia



Figure 13: Remnants of destroyed Houthi delta wing drone over Jazan, possibly Qasef-1 drone

<https://www.arabnews.com/node/1940011/saudi-arabia>

### Hezbollah claims to have shot down custom Israeli drone over Yator in southern Lebanon



Figure 14: Modified Israeli drone with several component observations:

- 4G GSM Router with Wide-band LTE and 5Ghz Wi-Fi antennas
  - Redundant GPS Modules
  - 18650 Battery instead of LiPo
- Main forward propeller for forward speed, not just range
  - Pitot tube at ~45 degree, indicating height
- Two smaller cameras and one large, commercial Sony branded DSLR

<https://www.haaretz.com/israel-news/hezbollah-says-it-shot-down-israeli-drone-in-south-lebanon-1.10256127>

<https://twitter.com/alishoeib1970/status/1443619378214416386> (Images)



**Arab Coalition shoots down possible Houthi Hudhud-1 drone over Al Ghaydah city in Yemen**

Figure 15: Possible Houthi Hudhud-1 drone that was shot down in Yemen

<https://www.almashhad-alyemeni.com/216754>

**Gazan drone reported to have intruded into Israeli airspace**

<https://www.jpost.com/breaking-news/gaza-drone-crosses-into-israeli-territory-report-680988>

**Air defence systems in Khmeimim Airbase destroy weaponised drone by Idlib militants, Syria**

<http://www.sana.sy/en/?p=250411>

**One of two drones shot down by Yemeni Army over Al-Mahrah**

<https://adengad.net/public/posts/570858>

**SOHR sources claim booby-trapped drone landed with parachute before detonating, Syria**

[https://www.syriahr.com/en/224268/?\\_cf\\_chl\\_jschl\\_tk\\_](https://www.syriahr.com/en/224268/?_cf_chl_jschl_tk_)

## 1.5. SOCIALS (P3)

### Palestinian youths seize IDF anti-riot drone with tear gas grenades modification, Beita, West Bank



Figure 16: Crashed Israeli drone with tear gas modification



Figure 17: Israeli drone destroyed by Palestinian youths

<https://t.me/DocumentingIsrael/1774>

**ScanEagle drone shot down by Houthi rebels in Megdal region of Marib, Yemen**

Figure 18: Houthi rebels with a shot down ScanEagle drone

<https://t.me/auraxchan/27814>

**Arab Coalition intercepts Houthi explosive-laden drone flying towards Jazan**

<https://twitter.com/AlainBRK/status/1444042858495885317>

**Islamic State claims to have shot down an Egyptian drone near Tuffaha, Egypt**

<https://t.me/intelslava/12689>

**Russian suicide drone shot down by opposition fighters in Benin, Idlib, Syria**

<https://twitter.com/OGNreports/status/1445348846402428932>

**Clovis Police Department drone aids in arrest of stolen vehicle, California USA**

[https://www.linkedin.com/posts/jim-munro\\_drone-for-the-win-last-friday-our-patrol-activity-6851247321125126145-VoLH](https://www.linkedin.com/posts/jim-munro_drone-for-the-win-last-friday-our-patrol-activity-6851247321125126145-VoLH)

## 1.6. WHITEPAPERS, PUBLICATIONS & REGULATIONS (P4)

**Cameroon CAA announce intention to develop regulatory framework for drone use**

<https://www.businessincameroon.com/economy/0410-11927-civil-aviation-authority-ccaa-announces-a-regulatory-framework-for-drone-use>

**UK proposes alcohol limit tolerance for drone operators to prevent drink-flying operations**

<https://www.telegraph.co.uk/business/2021/10/02/drone-owners-face-drink-fly-ban/>

**New ISO standard published for spatial data within UTM systems**

<https://www.iso.org/standard/76973.html>

**Hamilton city, Ohio, passes legislation against drone-based invasions of privacy**

<https://www.journal-news.com/news/hamilton-council-approves-new-drone-legislation-may-adjust-it-soon/HQGGU2ZV5BENLEI746N3OD2X34/>

**Does China's stealth attack drone pose a new threat to America? (Commentary)**

<https://nationalinterest.org/blog/buzz/does-china%E2%80%99s-stealth-attack-drone-pose-new-threat-america-194624>

**DARPA to test whether single user can control 200 drones (Commentary)**

<https://www.c4isrnet.com/unmanned/2021/10/04/swarm-grammar-darpa-to-test-single-user-controlling-200-drones-in-mock-city/>

**How Far Away Is Your Air Taxi? (Commentary)**

<https://www.airspacemag.com/airspacemag/how-far-away-your-air-taxi-180978686/>

**Applying arms-control frameworks to autonomous weapons**

<https://www.brookings.edu/techstream/applying-arms-control-frameworks-to-autonomous-weapons/>

## 1.7. COUNTER-DRONE SYSTEMS (P4)

**INTERPOL tests and evaluates 17 different counter drone systems at Oslo Airport, Norway**

<https://www.eurasiareview.com/04102021-interpol-carries-out-full-scale-drone-countermeasure-exercise/>

**Indian troops teach residents staying near border to recognise drone sounds and illegal activities**

<https://www.indiablooms.com/news-details/N/75858/bsf-trains-border-dwellers-in-jammu-of-drone-activities-to-sound-alert.html>

**D-Fend and Croatia Control demonstrate EnforceAir counter drone solution at Split Airport**

<https://www.unmannedairspace.info/counter-uas-systems-and-policies/croatia-control-and-d-fend-demonstrate-integrated-counter-drone-solution-at-split-airport/>

**Countering unmanned systems (podcast)**

<https://www.gatewayhouse.in/countering-unmanned-systems/>

## 1.8. UTM SYSTEMS (P5)

**MITRE Engenuity and NUAIR tests 5G drone in New York**

<https://www.lightreading.com/aiautomation/drone-testing-goes-5g-in-new-york/d/d-id/772396>

**Flylogix releases Sandbox Report supporting BVLOS drone operations in unified airspace**

<https://www.unmannedairspace.info/emerging-regulations/uk-caa-first-sandbox-report-supports-operating-safety-case-for-bvlos-in-non-segregated-airspace/>

[https://publicapps.caa.co.uk/docs/33/CAP%202261%20Flylogix%20BVLOS%20Sandbox%20Report%20final.pdf?fbclid=IwAR3ae\\_SaRtCIJK6Y2tDcFd0hpsZK5q-sG8BU47N6jCoV5tYZ9EwzK7mXgSA](https://publicapps.caa.co.uk/docs/33/CAP%202261%20Flylogix%20BVLOS%20Sandbox%20Report%20final.pdf?fbclid=IwAR3ae_SaRtCIJK6Y2tDcFd0hpsZK5q-sG8BU47N6jCoV5tYZ9EwzK7mXgSA) (PDF Document)

**Korea aims to commercialise drone taxis by 2025 to ease traffic congestion**

[https://www.koreatimes.co.kr/www/tech/2021/09/774\\_316137.html](https://www.koreatimes.co.kr/www/tech/2021/09/774_316137.html)

**Altitude Angel GuardianUTM selected for BVLOS drone operations in India**

<https://www.altitudeangel.com/news/altitude-angel-the-go-to-utm-provider-for-india-bvlos-trials>

## 1.9. INFORMATIONAL (P5)

**North Wales drone team showcases utility and usefulness of drone in law enforcement**

<https://www.deeside.com/police-drone-pilots-hailed-as-highflying-heroes-after-saving-three-lives/>

**Wood County PD deploys drone to locate suicidal man with a gun in possession, Ohio, USA**

<https://go.tiffinohio.net/2021/10/tiffin-man-arrested-after-firing-shots-toward-police-during-standoff-at-bettsville-park/>

## 1.10. DRONE TECHNOLOGY (P5)

**Russia unveils Grom stealth UAV, able to control other drones and interact with fighter jets**

<https://www.rbth.com/science-and-tech/334244-russia-unveils-new-drones>

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