

# Drones, Quadcopters, UAV's: What to Buy, Safe Operation, Licensing, Regulation

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Presenters: Tom Bolus, Plymouth Area Community  
Television  
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## About Us

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\*IANAL (I am Not A Lawyer)

All rules subject to change



# Topics

- What is a UAV?
- What are the advantages to using UAVs to tell your story?
- What should you look for in a UAV?
- What steps do you need to take to legally fly UAVs?
- What are practical, ethical, and privacy issues concerning drones?



What is a  
drone?

Not a drone



# Drone



Drone



# (Not Quite A) Drone







UAV / UAS

**U**n**m**anned **A**erial  
**V**ehicle / **S**ystem

# Unmanned Aerial Vehicle (Quadrocopter)



# Unmanned Aerial Vehicle (Hexacopter)



# UAV (Hexakaidecacopter)





# Civilian UAV Uses

- Inspection and monitoring
- Surveying and mapping
- Agriculture
- Search and rescue
- Delivery
- Radio relay
- Video production

# How Does a Drone Help you Tell Your Story?



# How Does a Drone Help you Tell Your Story?



# How Does a Drone Help you Tell Your Story?







# UAV Considerations

- Gimbal Stabilizer
- Camera resolution / sensor size
- Camera tilt / pan
- Transmitter distance
- Controller / viewer
- Battery flight time / max airspeed
- Object detection / assistive flying
- Warranty / support

# Hobbyist UAVs - Holy Stone HS170 Predator



# Hobbyist UAVs - Syma X5C Quadcopter



# Hobbyist UAVs Footage



# Starting UAVs - Parrot BeBop 2



# Starting UAVs - DJI Phantom 3



# Starting UAVs - DJI Spark



# Starting UAVs - DJI Mavic Pro





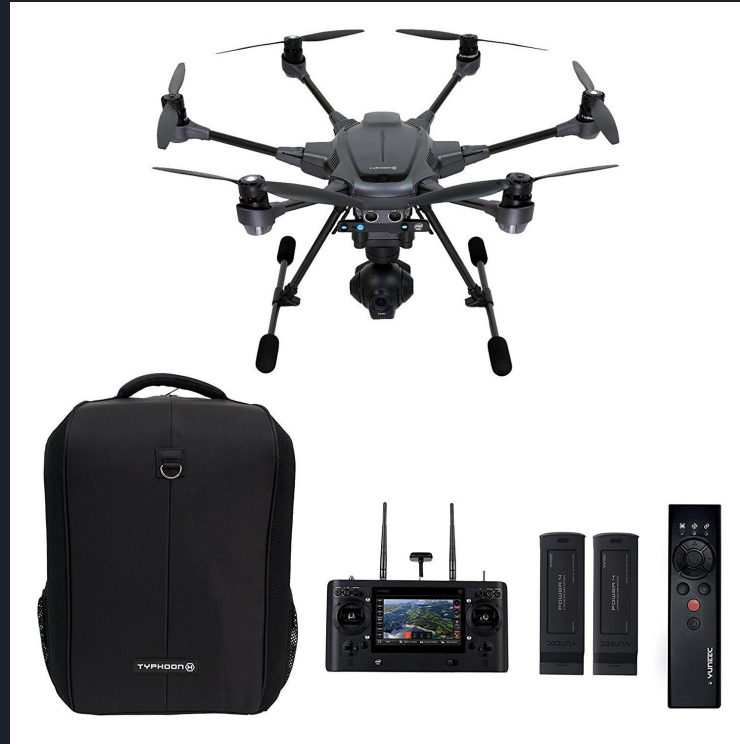
# Starting UAVs - GoPro Karma



# Starting UAVs - Yuneec Typhoon 4K



# Professional UAVs - Yuneec Typhoon H



# Professional UAVs - DJI Phantom 4 Pro



# Professional UAVs - DJI Inspire 2



# Sky's the Limit UAVs - Matrice 200 / 600



# Sky's the Limit UAVs - Intel Falcon 8+

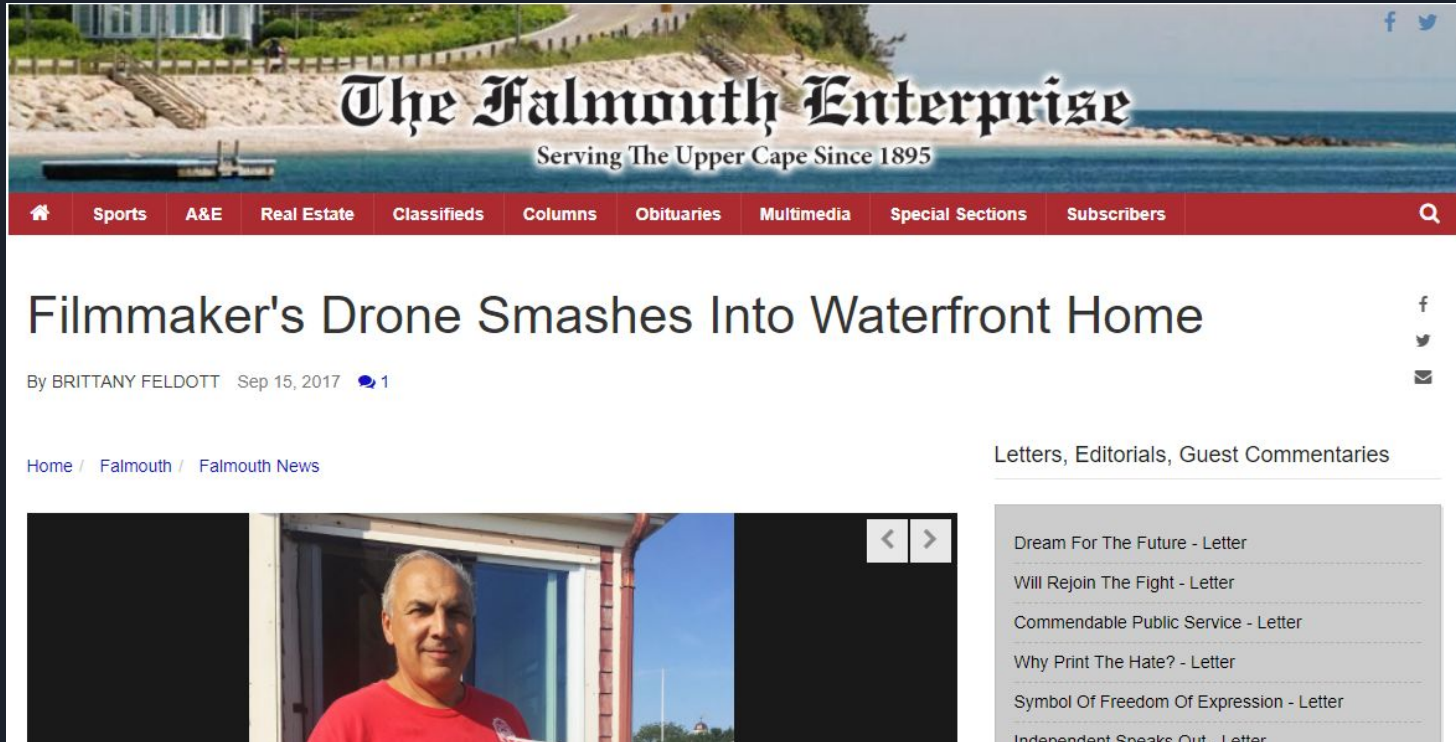


# Sky's the Limit UAVs - DroneVolt Janus 360 V2





# How are UAVs safely operated?



The screenshot shows the homepage of The Falmouth Enterprise, a local news outlet. The header features the newspaper's name in a large, stylized font, with the tagline "Serving The Upper Cape Since 1895" below it. A navigation menu includes links for Home, Sports, A&E, Real Estate, Classifieds, Columns, Obituaries, Multimedia, Special Sections, and Subscribers. The main article is titled "Filmmaker's Drone Smashes Into Waterfront Home" by Brittany Feldott, dated September 15, 2017. The article's lead image shows a man in a red shirt standing in front of a waterfront home. To the right of the article, there is a sidebar with social media icons and a list of letters and editorials.

**The Falmouth Enterprise**  
Serving The Upper Cape Since 1895

Home Sports A&E Real Estate Classifieds Columns Obituaries Multimedia Special Sections Subscribers

## Filmmaker's Drone Smashes Into Waterfront Home

By BRITTANY FELDOTT Sep 15, 2017 1

Home / Falmouth / Falmouth News

Letters, Editorials, Guest Commentaries

- Dream For The Future - Letter
- Will Rejoin The Fight - Letter
- Commendable Public Service - Letter
- Why Print The Hate? - Letter
- Symbol Of Freedom Of Expression - Letter
- Independent Speaks Out - Letter

# How are UAVs safely operated?

## Civilian Drone Crashes Into a US Army Helicopter (nypost.com)



270

Posted by EditorDavid on Sunday September 24, 2017 @03:34PM from the Blackhawk-up dept.

An anonymous reader quotes the *New York Post*:

It was nearly Black Hawk down over Staten Island -- when [an Army chopper was struck by an illegally flying drone](#) over a residential neighborhood, authorities said Friday. The UA60 helicopter was flying 500 feet over Midland Beach alongside another Black Hawk, when the drone struck the chopper at around 8:15 p.m. Thursday, [causing damage to its rotor blades](#). The uninjured pilot was able to land safely at nearby Linden Airport in New Jersey... "Our aircraft was not targeted, this was a civilian drone," said Army Lieutenant Colonel Joe Buccino, the spokesman for the 82nd Airborne... "One blade was damaged [and] dented in two spots and requires replacement and there is a dented window"... The NYPD and the military are investigating -- but no arrests have been made.

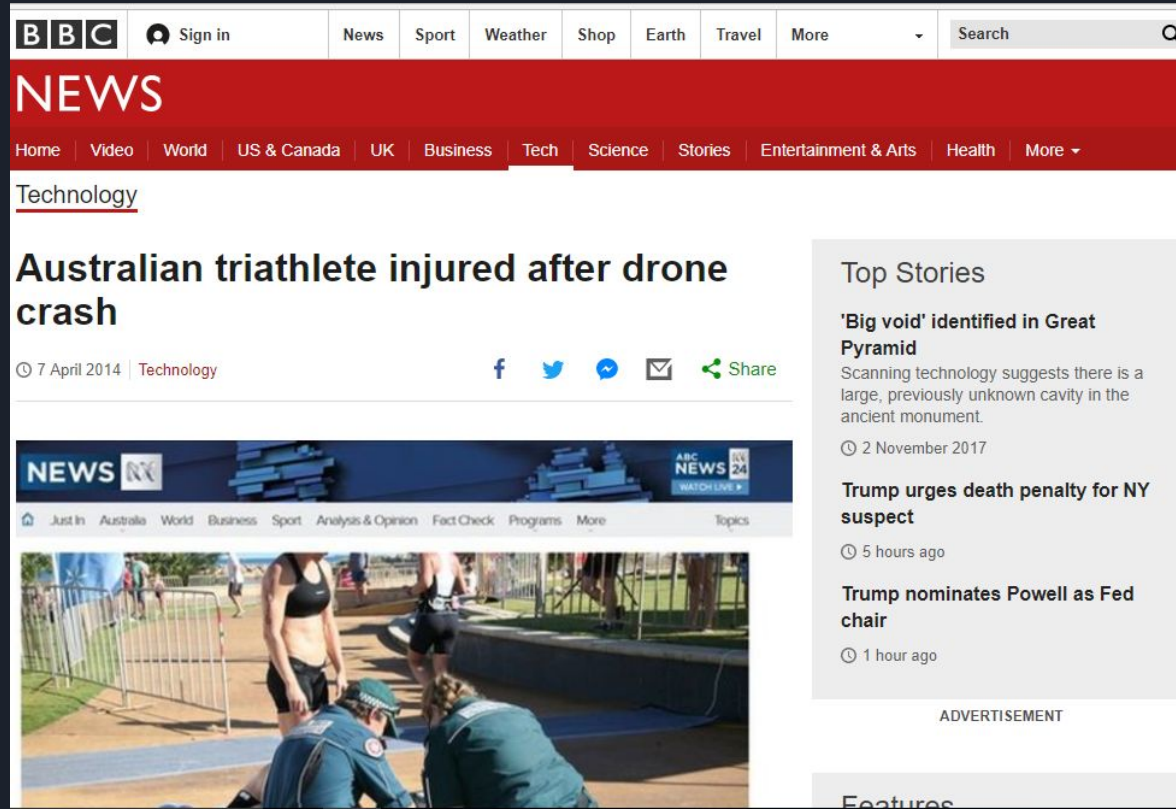
The same day a federal judge [struck down an ordinance banning drone flights](#) over private property that had been passed by the city of Newton, Massachusetts. But local law enforcement warned that "an out of control helicopter could have crashed into residential homes causing numerous injuries and even fatalities," while the *Post* reports that drones have also crashed [into a power plant](#) and [into the 40th floor of the Empire State Building](#).

"In February, a GoPro drone crashed through a Manhattan woman's 27th floor window and landed just feet away from her [as she sat in her living room](#)."



hyperbole

# How are UAVs safely operated?



The image is a screenshot of the BBC News website. At the top, there is a navigation bar with the BBC logo, a 'Sign in' button, and a menu of categories: News, Sport, Weather, Shop, Earth, Travel, and More. A search bar is located on the right side of this bar. Below the navigation bar is a red banner with the word 'NEWS' in white. Underneath the banner is another navigation bar with links for Home, Video, World, US & Canada, UK, Business, Tech, Science, Stories, Entertainment & Arts, Health, and More. The main content area features a headline: 'Australian triathlete injured after drone crash'. Below the headline, it says '7 April 2014 | Technology' and includes social media sharing icons for Facebook, Twitter, WhatsApp, Email, and a general 'Share' button. Below the headline is a video player with the BBC News logo and a 'WATCH LIVE' button. The video player has a navigation bar with links for Just In, Australia, World, Business, Sport, Analysis & Opinion, Fact Check, Programs, and More. The video player shows a triathlete in a black sports top and shorts standing on a track, with two people in green uniforms kneeling in front of her. To the right of the main content area is a 'Top Stories' section with three items: 'Big void' identified in Great Pyramid (dated 2 November 2017), Trump urges death penalty for NY suspect (dated 5 hours ago), and Trump nominates Powell as Fed chair (dated 1 hour ago). Below the 'Top Stories' section is an 'ADVERTISEMENT' placeholder. At the bottom of the page, there is a 'Features' section.

**BBC** Sign in News Sport Weather Shop Earth Travel More Search

## NEWS

Home Video World US & Canada UK Business Tech Science Stories Entertainment & Arts Health More

### Technology


# Australian triathlete injured after drone crash

7 April 2014 | Technology

f t w e Share

**NEWS** ABC NEWS 24 WATCH LIVE

Just In Australia World Business Sport Analysis & Opinion Fact Check Programs More Topics



**Top Stories**

**'Big void' identified in Great Pyramid**  
Scanning technology suggests there is a large, previously unknown cavity in the ancient monument.  
2 November 2017

**Trump urges death penalty for NY suspect**  
5 hours ago

**Trump nominates Powell as Fed chair**  
1 hour ago

ADVERTISEMENT


**Features**

# Learning to operate - start indoors






# Preflight checklist

Pre-Flight Checklist			
Pilot In Command:		FAA Reg. No.:	Date:
Observer (Optional):		Location:	
UAS Model: DJI Phantom 3 Pro			
Purpose of Flight (Check 1): <input type="checkbox"/> Recreation <input type="checkbox"/> Commercial <sup>(1)</sup> <input type="checkbox"/> SAR <sup>(2)</sup> <input type="checkbox"/> Other (Describe):			
NOTES: (1) - Commercial sUAS license required (2) - Authorization by applicable authority required			
Authorization for flight in restricted airspace: (Required for flight in restricted airspace only, otherwise NA)			
Authorized by: _____		Title: _____	
<b>A. Pre-Start Checklist</b>			
Important: Complete all check list items in the order they are presented. If you cannot check off an item <b>STOP!</b> and correct the problem before continuing.			
No.	Item	Acceptable Condition	Sat.
1	Airspace	Unrestricted airspace or flight authorized	
		Potential obstructions near intended flight path identified	
2	Weather	Visibility >=3 miles/500 ft., Wind <=15mph, Precip. - None	
3	sUAS Airframe/Props	No structural defects visible	
4	sUAS Battery	Sufficient for intended flight, not less than 75%	
5	Controller Battery	Sufficient for intended flight, not less than 75%	
6	Display Device Battery	Sufficient for intended flight	
7	Memory Card	Installed, sufficient memory space available for flight	
8	Observer	Present, briefed and ready (Only if designated, otherwise NA)	
9	Camera Gimbal Lock	Removed	
10	Display Device	On	

 UAV Forecast™

[FAQs](#)
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 Like
  Share
  Register

Max Wind (mph): 
     Wind Altitude (feet)

Min Temperature (°F): 
      Max Temperature (°F): 
      Adjust For Wind Chill

Max Precip Prob (%):  
      Max Cloud Cover (%): 
      Min Visibility (miles):

Min GPS Sats Visible: 
     GPS Elevation Mask (°):   
      Include GLONASS Sats

Min Est. GPS Sats Locked:  
      Max Kp:

Show Daylight Hours Only
  Show Cloud Base (subscribers only)
  Show Max Wind Altitude (subscribers only)

Wind 
   Altitude 
   Temperature 
   Visibility

**Location: 350 Quaker Rd, North Falmouth, MA 02556, USA**
[map »](#)

**Current Conditions as of Thursday 2017-11-02 19:26 EDT**

Time	Wind	Wind Chill	Precip	Cloud Cover	Visibility	Visible Sats	Kp	Est. Sats Locked	Good To Fly?
19:26 ☽	5 mph ↑	62°F	0%	18%	10 miles	16	1	14.9	yes

**Friday 2017-11-03: sunrise 07:16, sunset 17:34**

Time	Wind	Wind Chill	Precip	Cloud Cover	Visibility	Visible Sats	Kp	Est. Sats Locked	Good To Fly?
08:00 ☽	8 mph ↑	59°F	6%	81%	2 miles	19	2	17.8	no
09:00 ☽	8 mph ↑	59°F	6%	85%	2 miles	18	2	16.7	no
10:00 ☽	9 mph ↑	60°F	5%	92%	1 miles	17	2	16.3	no
11:00 ☽	10 mph ↑	61°F	4%	96%	0 miles	17	2	15.7	no
12:00 ☽	11 mph ↑	62°F	4%	95%	3 miles	17	2	15.5	no



# Basic UAV Operation

	Fly for Fun	Fly for Work
<b>Pilot Requirements</b>	No pilot requirements	Must have Remote Pilot Airman Certificate Must be 16 years old Must pass TSA vetting
<b>Aircraft Requirements</b>	Unless exclusively operated in compliance with Section 336 of Public Law 112-95 ( <i>Special Rule for Model Aircraft</i> ), the aircraft must be registered if over 0.55 lbs.	Must be less than 55 lbs. Must be registered if over 0.55 lbs. (online) Must undergo pre-flight check to ensure UAS is in condition for safe operation

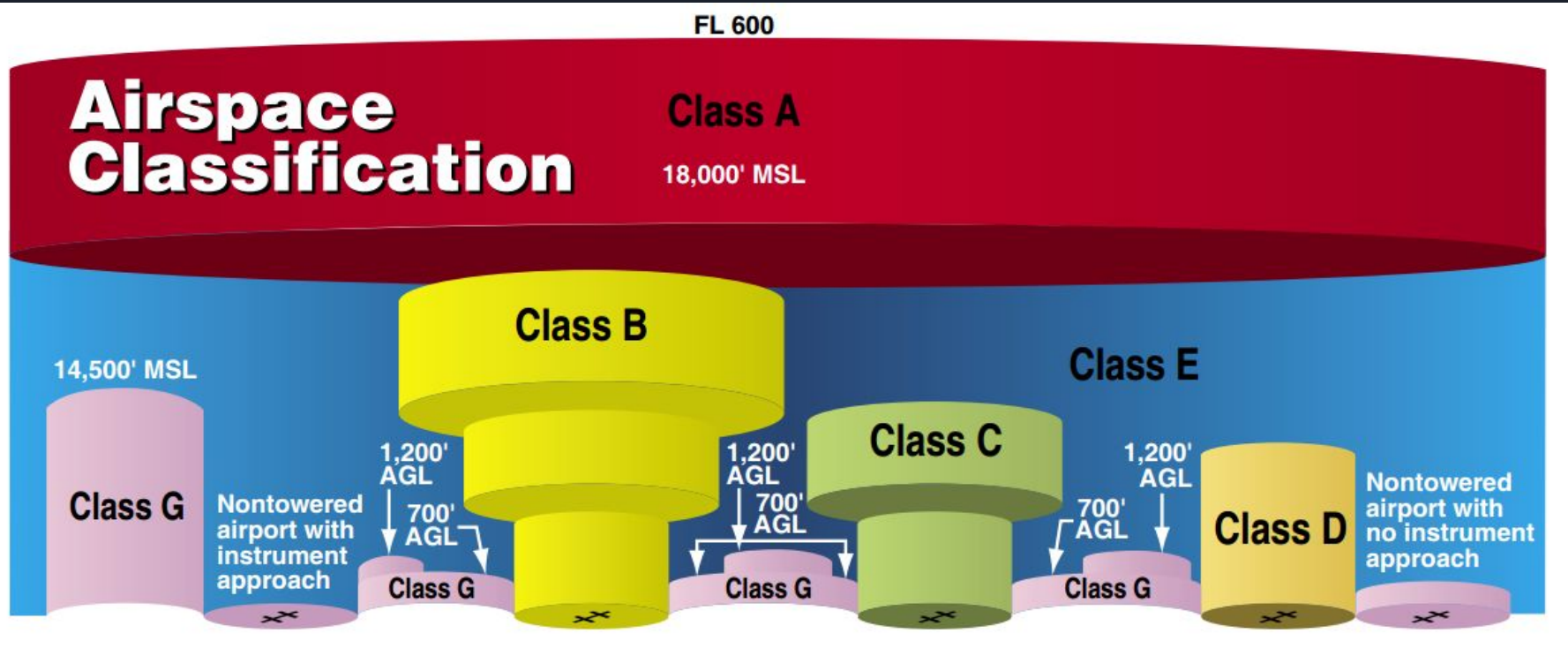


# Basic UAV Operation

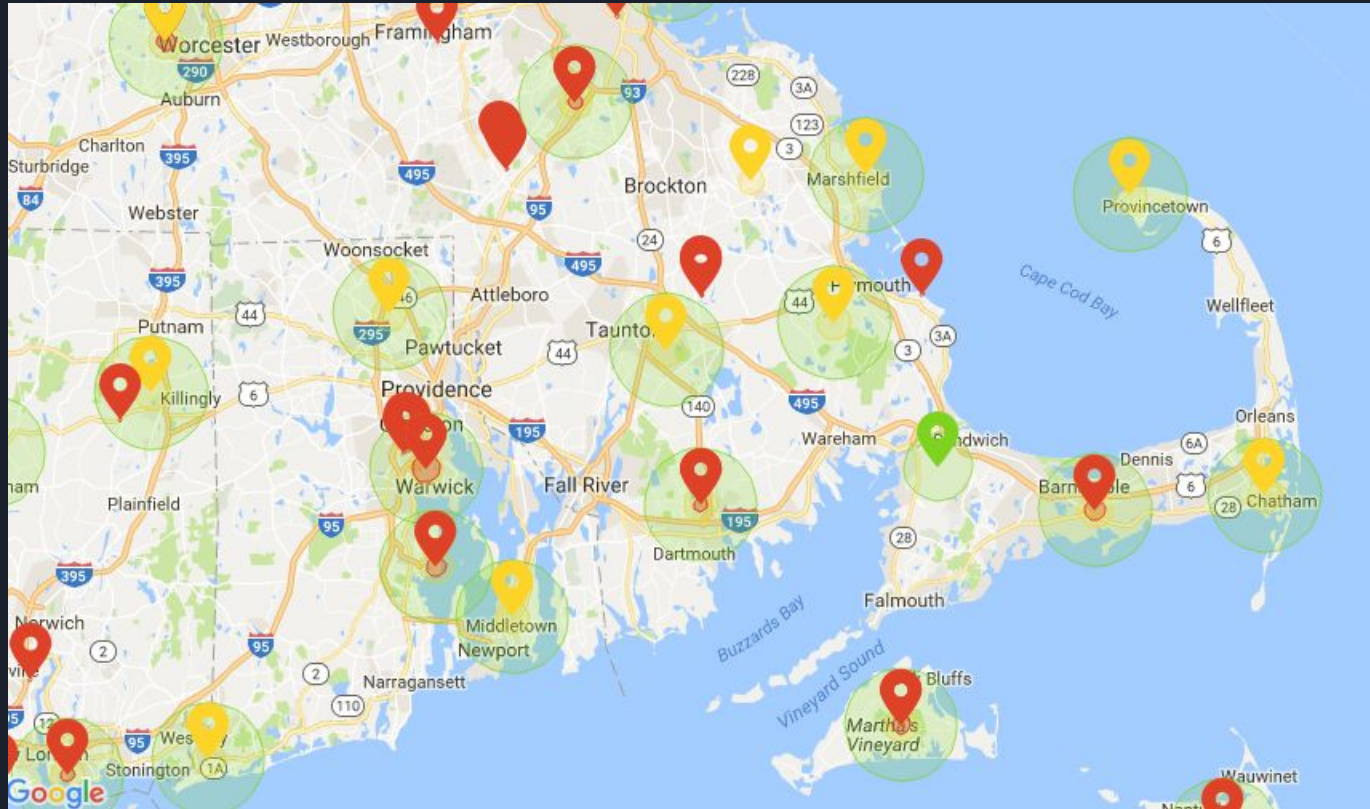
	Fly for Fun	Fly for Work
<b>Location Requirements</b>	5 miles from airports without prior notification to airport and air traffic control	Class G airspace*



# Basic UAV Operation



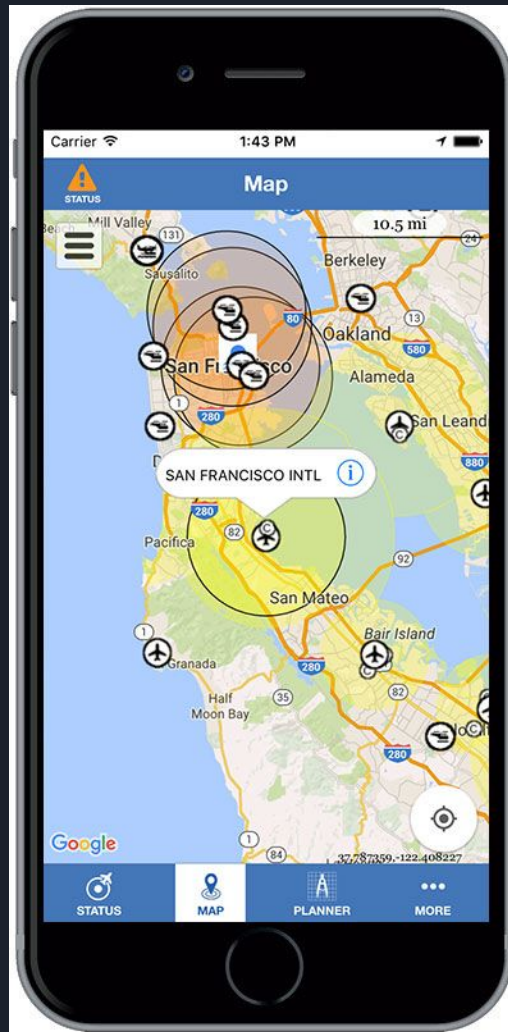
# Basic UAV Operation



# Basic UAV Operation



# B4Ufly





## Where not to fly

- Security Sensitive Airspace Restrictions
- Temporary Flight Restrictions
- Restricted or Special Use Airspace
- Stadiums and sporting events
- Wildfires
- Airports



# Basic UAV Operation

	Fly for Fun	Fly for Work
<b>Operating Rules</b>	<p>Must ALWAYS yield right of way to manned aircraft</p> <p>Must keep the aircraft in sight (visual line-of-sight)</p> <p>UAS must be under 55 lbs.</p> <p>Must follow community-based safety guidelines</p> <p>Must notify airport and air traffic control tower before flying within 5 miles of an airport</p>	<p>Must keep the aircraft in sight (visual line-of-sight)*</p> <p>Must fly under 400 feet*</p> <p>Must fly during the day*</p> <p>Must fly at or below 100 mph*</p> <p>Must yield right of way to manned aircraft*</p> <p>Must NOT fly over people*</p> <p>Must NOT fly from a moving vehicle*</p>



# Basic UAV Operation

	Fly for Fun	Fly for Work
<b>Example Applications</b>	Educational or recreational flying only	Flying for commercial use (e.g. providing aerial surveying or photography services) Flying incidental to a business (e.g. doing roof inspections or real estate photography)
<b>Legal or Regulatory Basis</b>	Public Law 112-95, Section 336 – <i>Special Rule for Model Aircraft</i> FAA Interpretation of the Special Rule for Model Aircraft	Title 14 of the Code of Federal Regulation (14 CFR) Part 107



# Basic UAV Operation - Reporting

The FAA requires notification of certain sUAS accidents. The applicable FAA regulation states:

**§ 107.9 Accident Reporting.** No later than 10 days after an operation that meets the criteria of either paragraph (a) or (b) of this section, a remote pilot in command must report to the Federal Aviation Administration in a manner acceptable to the Administrator, any operation of the small unmanned aircraft involving **at least:**

- a. Serious injury to any person or any loss of consciousness; or
- b. Damage to any property, other than the small unmanned aircraft, unless one of the following conditions is satisfied:
  - 1. The cost of repair (including materials and labor) does not exceed \$500; or
  - 2. The fair market value of the property does not exceed \$500 in the event of total loss.



# Basic UAV Operation - Reporting

**Remote Pilot in Command**

\* First name:

\* Last name:

\* Phone:

Email address:

\* FAA Airman Certificate

Airman Certificate no.:

None

Unknown

\* sUAS Registration

Aircraft Registration no.:

None

Unknown

# Part 107 Certification



Skyward

## §105.49 Foreign parachute equipment.

Paragraph (c) of this section applies to a parachute operated on the aircraft. It is used to aid in the function of the device.

- (a) No person may conduct a parachute operation, and no pilot in command may operate that aircraft with an unapproved parachute system unless—
- (1) The parachute system is approved for use by a parachute system manufacturer.
  - (2) The parachute system is approved for use by the parachute system manufacturer.
  - (3) The parachute system is approved for use by the parachute system manufacturer.
  - (4) All foreign parachute systems are approved for use by the parachute system manufacturer.

## 14 CFR • Small Unmanned Aircraft Systems

# PART 107

## GENERAL OPERATING AND FLIGHT RULES

### Subpart A — General

- 107.1 Applicability.
- 107.3 Definitions.
- 107.5 Falsification, reproduction or alteration, detection, testing, and demonstration of

- 107.67 Knowledge tests: General procedures and passing grades.
- 107.69 Knowledge tests: Cheating or other unauthorized conduct.
- 107.71 Retesting after failure.
- 107.73 Initial and recurrent knowledge tests.
- 107.74 Initial and recurrent training courses.
- 107.77 Change of name or address.
- 107.79 Voluntary surrender of certificate.

Waivers



## Part 107 Certification

- 16 year old +
- Aeronautical knowledge test
  - First-time pilots
  - Existing pilots



## Part 107 Certification

- Contact test center
- Background check
- \$150
- 2 hours
- 80 questions
- Need to get 70%
- Vaild for 2 years



# Part 107 Certification - Connecticut

## CT

City	Site ID	Site	Address	Phone
DANBURY	LAS06802	**EXECUTIVE AIR SERVICES	53 MIRY BROOK ROAD	(203) 778-1150
EAST HAVEN	ABS06501	**ROBINSON AVIATION, INC.	50 THOMPSON AVENUE	(203) 467-9555
HARTFORD	ABS06102	**AMERICAN FLIGHT ACADEMY	20 LINDBERGH DRIVE	(860) 722-9667
HARTFORD	ABS06103	**PREMIER FLIGHT CENTER	58 LINDBERG DRIVE	(860) 724-2245
STRATFORD	ABS06401	**THREE WINGS AVIATION GROUP, LLC	400 GREAT MEADOW ROAD	(203) 375-5795
WEST HARTFORD	ABS06104	PSI - WEST HARTFORD	1245 FARMINGTON AVE	860-236-5046

**Total for CT is 6**



## Part 107 Certification - Maine / Vermont

### ME

City	Site ID	Site	Address	Phone
AUGUSTA	ABS04301	**MAINE INSTRUMENT FLIGHT, INC	215 WINTHROP STREET	(207) 622-1211
SANFORD	LAS04003	**SOUTHERN MAINE AVIATION LLC	199 AIRPORT ROAD	407-324-8919
TRENTON	LAS04602	**MAINE COASTAL FLIGHT CENTER	112 CARUSO DRIVE	(207) 664-6000

**Total for ME is 3**

City	Site ID	Site	Address	Phone
SOUTH BURLINGTON	ABS05404	BURLINGTON TECHNICAL CENTER	3060 WILLISTON ROAD UNIT 7	(802) 864-1799
SOUTH BURLINGTON	LAS05401	VERMONT FLIGHT ACADEMY	355 VALLEY ROAD	(802) 863-5988

**Total for VT is 2**

# Part 107 Certification - Massachusetts / New Hampshire

City	Site ID	Site	Address	Phone
BEDFORD	ABS01703	EAST COAST AERO CLUB, INC.	200 HANSCOM DRIVE, STE 111	(781) 274-6322
BRIDGEWATER	LAS02301	BRIDGEWATER STATE UNIVERSITY	10 SHAW ROAD	(508) 531-1780
CONCORD	LAS01702	**NATIONAL AVIATION ACADEMY	130 BAKER AVENUE EXTENSION	(781) 274-8448
DANVERS	ABS01901	BEVERLY FLIGHT CENTER, INC.	175 BURLEY ST. HANGAR 10	(978) 774-7755
N. ANDOVER	ABS01801	**EAGLE EAST AVIATION, INC.	492 SUTTON ST.	(508) 683-3314
NORTHAMPTON	ABS01002	NORTHAMPTON AERONAUTICS, INC.	160 OLD FERRY ROAD	(413) 584-7980
NORWOOD	ABS02001	NEW HORIZON AVIATION, INC - NORWOOD	125 ACCESS RD	(781) 762-7600
PLYMOUTH	ABS02301	**ADS FLIGHT CENTER- PLYMOUTH	246 S. MEADOW ROAD	(781) 858-1083
WESTFIELD	ABS01004	WESTFIELD FLIGHT ACADEMY	111 AIRPORT RD.	(413) 568-5800

City	Site ID	Site	Address	Phone
GILFORD	LAS03201	**DAE AVIATION ENTERPRISE	118 KIMBALL ROAD	(603) 293-7980
KEENE	LAS03402	MONADNOCK AVIATION INC	80 AIRPORT ROAD	603-357-7600
MANCHESTER	LAS03103	**NATIONAL FLIGHT SIMULATOR	175 AMMON DRIVE	603-880-0044
NASHUA	ABS03003	**AIR DIRECT AIRWAYS	125 PERIMETER ROAD, #4E	(603) 882-5606
NASHUA	LAS03002	EAST COAST AERO CLUB	117 PERIMETER ROAD	(603) 595-1395

# Part 107 Certification - New York

<b>City</b>	<b>Site ID</b>	<b>Site</b>	<b>Address</b>	<b>Phone</b>
CANANDAIGUA	ABS14402	SKYOP LLC	5297 PARKSIDE DRIVE SUITE 435	(585) 598-4737
DUNKIRK	ABS14001	**DUNKIRK AVIATION FLIGHT SCHOOL	DUNKIRK AIRPORT	(716) 366-6938
E. FARMINGDALE	ABS11701	**NASSAU FLYERS, INC.	1300 HEW HIGHWAY GATE 2 HNGR 2	(516) 454-0626
FARMINGDALE	ABS11705	FARMINGDALE STATE COLLEGE	885 BROADHOLLOW ROAD	(631) 420-2532
FARMINGDALE	ABS11704	ACADEMY OF AVIATION TESTING CENTER	7150 REPUBLIC AIRPORT SUITE 101	(631) 777-7772
FARMINGDALE	ABS11707	GLOBAL AVIATION CORP	9100 REPUBLIC AIRPORT	(631) 391-8110
FLUSHING	LAS11301	VAUGHN COLLEGE OF AERONAUTICS- TECHNOLOGY	96-01 23RD AVENUE	718-429-6600, EXT. 205
FLUSHING/QUEENS	ABS11401	FLIGHTSAFETY INTERNATIONAL LA GUARDIA LEARNING CENTER	MARINE AIR TERMINAL, LAGUARDIA AIRPORT	(718) 565-4170
ITHACA	LAS14801	EAST HILL FLYING	TOMPKINS COUNTY AIRPORT	(607) 257-1313
KINGSTON	LAS12401	RICHMOR AVIATION	1155 FLATBUSH ROAD	845-336-5638



# Part 107 Certification - New York

City	Site ID	Site	Address	Phone
LONG ISLAND CITY	ABS11102	AVIATION HIGH SCHOOL	45-30 36TH STREET	(718) 361-2032
MONTGOMERY	LAS12502	**TAKE FLIGHT AVIATION	49 HANGAR ROAD	845-457-4188
NEW YORK	LAS10003	PROFESSIONAL TESTING CORPORATION	1350 BROADWAY, SUITE 1700	(212) 356-0681
ROCHESTER	LAS14602	**ROCHESTER AIR CENTER	1313 SCOTTSVILLE ROAD	(585) 328-8839
ROME	LAS13401	**GALAXY AVIATION	GRIFFISS AIRPARK	315-336-6120
RONKONKOMA	LAS11702	**MID ISLAND AIR SERVICE	101 HERING DRIVE	(631) 588-5400
RONKONKOMA	ABS11706	A.T.P., INC. - ISP	90 ARRIVAL AVENUE #901	631-676-3490
RONKONKOMA	LAS11710	**HERITAGE FLIGHT ACADEMY	ISLIP, MACARTHUR AIRPORT	(631) 471-3550
SCOTIA	LAS12301	**RICHMOR AVIATION, INC.	19 AIRPORT ROAD	(518) 399-8171
SUNNYSIDE	ABS11101	ACADEMICS OF FLIGHT INTERNATIONAL, INC.- NORTH	46-12 QUEENS BOULEVARD, ROOM 204	(718) 937-5716
WHITE PLAIN	ABS10602	ACADEMY OF AVIATION	67 TOWER RD. HANGAR T	(914) 461-2336
		<b>Total for NY is 21</b>		



## Part 107 Certification

- Applicable regulations relating to small unmanned aircraft system rating privileges, limitations, and flight operation
- Airspace classification and operating requirements, and flight restrictions affecting small unmanned aircraft operation
- Aviation weather sources and effects of weather on small unmanned aircraft performance
- Small unmanned aircraft loading and performance



## Part 107 Certification

- Emergency procedures
- Crew resource management
- Radio communication procedures
- Determining the performance of small unmanned aircraft
- Physiological effects of drugs and alcohol
- Aeronautical decision-making and judgment
- Airport operations
- Maintenance and preflight inspection procedures



## Part 107 Certification - Sample Questions

- Which technique should a remote pilot use to scan for traffic? A remote pilot should
- A) systematically focus on different segments of the sky for short intervals.
  - B) concentrate on relative movement detected in the peripheral vision area.
  - C) continuously scan the sky from right to left.



# Part 107 Certification - Sample Questions

8 . PLT313 UA.IV.A.K1b

To ensure that the unmanned aircraft center of gravity (CG) limits are not exceeded, follow the aircraft loading instructions specified in the

- A) Pilot's Operating Handbook or UAS Flight Manual.
- B) Aeronautical Information Manual (AIM).
- C) Aircraft Weight and Balance Handbook.



# Part 107 Certification - Sample Questions

24 . PLT064 UA.V.B.K6a

(Refer to FAA-CT-8080-2G, Figure 22, area 2.) At Coeur D`Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to monitor airport traffic?

- A) 122.05 MHz.
- B) 135.075 MHz.
- C) 122.8 MHz.



## Part 107 Waiver

- Flying at night (§ 107.29)
- Flying directly over a person or people (§ 107.39)
- Flying from a moving vehicle or aircraft, not in a sparsely populated area (§ 107.25)
- Flying multiple aircraft with only one pilot (§ 107.35)
- Flying beyond the pilot's visual line-of-sight (§ 107.31)
- Flying above 400 feet (§ 107.51B)
- Flying near airports / in controlled airspace (§ 107.41)

# UAS Integration Pilot Program

## **i** UAS Integration Pilot Program

On October 25, 2017, the President announced a new initiative that pairs unmanned aircraft operators with state, local, and tribal governments to safely expand cutting-edge unmanned aircraft operations. The program will shape a regulatory framework that balances the benefits of UAS technology while lessening the risks to public safety and security.



## **DOT Secretary Chao Launches Drone Integration Pilot Program**

Program accelerates the integration of drones into our airspace by creating various partnerships across the country.





Original UAV users - Academy of Model  
Aeronautics





## Insurance - Academy of Model Aeronautics Membership

- Access to AMA-member flying sites
- \$2,500,000 comprehensive general liability insurance
- \$25,000 accident/medical coverage
- \$10,000 maximum accidental death coverage
- \$1,000 fire, theft and vandalism



# Ethics

- Local ordinances
- Property rights
- Privacy rights
- Safety
- Technical proficiency and knowing limits



## What does flying UAVs in cable access look like?

- Single or few staff operators
- No volunteers
- Logged flights
- Budget extra for repairs



Questions?



# Thanks!

Tom Bolus\*

Plymouth Area Community  
Television Instructor

[tom@pactv.org](mailto:tom@pactv.org)

Ryan Webber\*

Falmouth Public Schools  
Educational Access Coordinator

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\*IANAL (I am Not A Lawyer)

All info subject to change