AVIATION PHOTOGRAPHY

ZURICH AIRPORT

SPRING 2023

By Deon Mitton

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Some important considerations when working in the outdoors, filming Aviation subjects.

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07 FAST ACTION

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INTRODUCING

ABOUT ME

Deon Mitton

Professional Pilot,
Aviation Photographer

International Published photographer

Commercial Seaplane and Helicopter Pilot
New York City, Alaska bush, The Bahamas, The Caribbean

Computer Science, Enterprise Software
(Engineering, Cloud Infrastructure Architecture)

INTRODUCING

ABOUT ME

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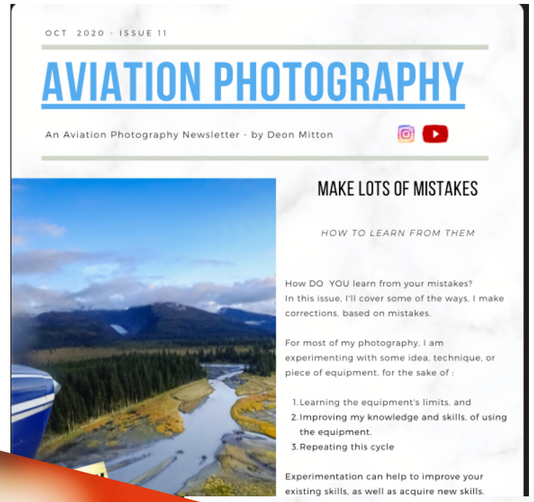
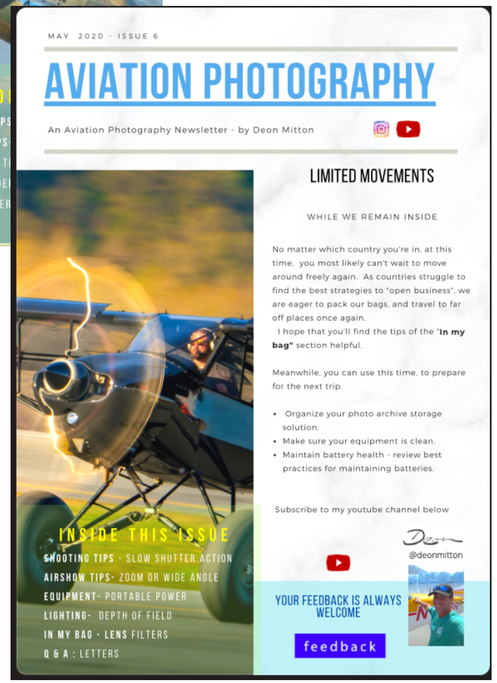
Aviation Photographer





02

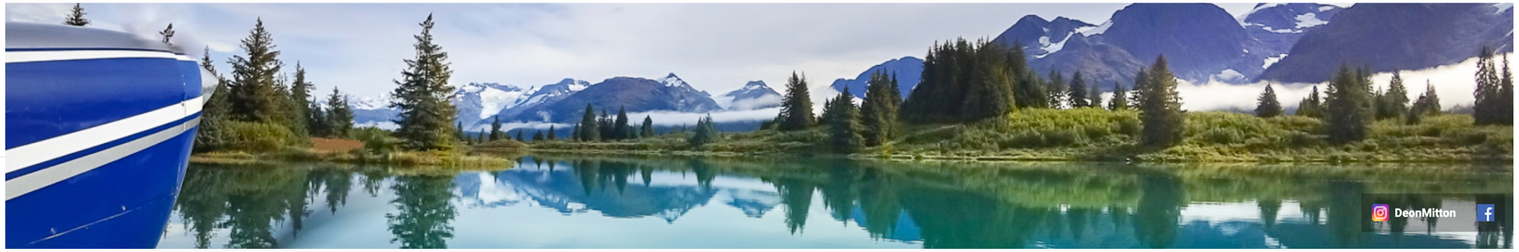
DEFINED OBJECTIVES

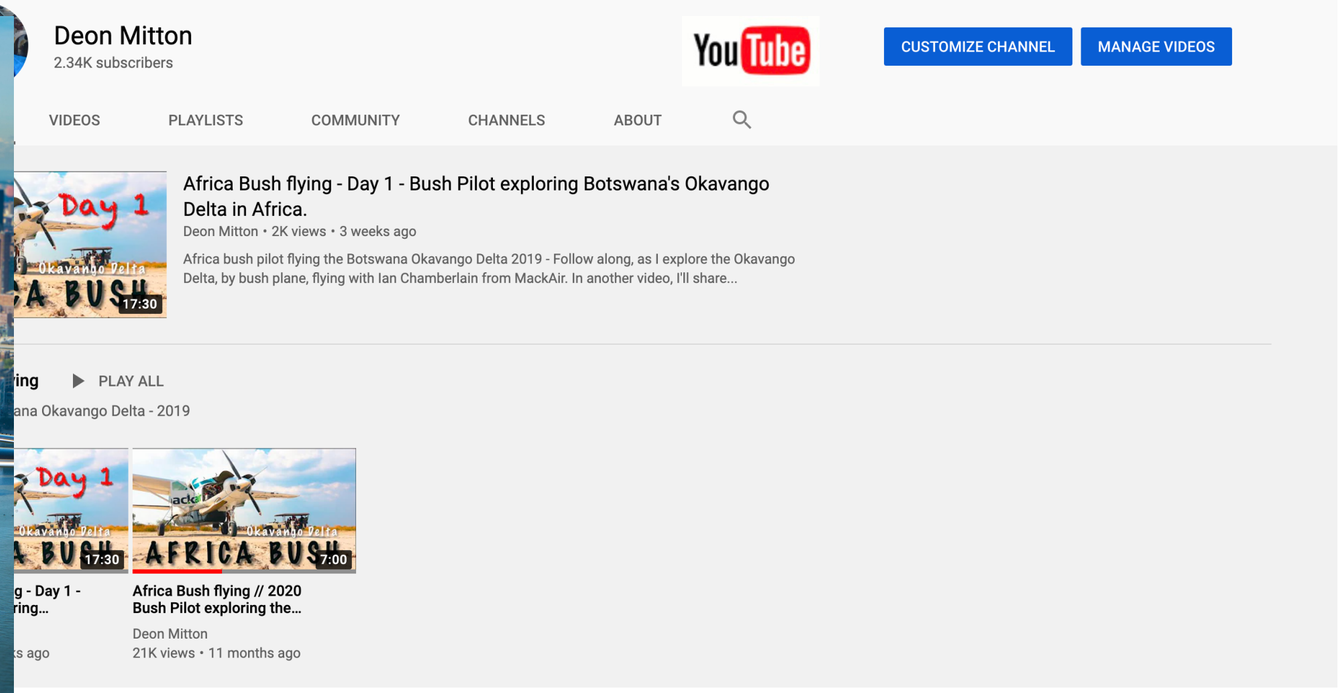
DIGITAL
PRINT MAGAZINES
WALL

02

DEFINED OBJECTIVES

DIGITAL





02

DEFINED OBJECTIVES

PRINTED MEDIA

02

DEFINED OBJECTIVES

PRINTED MEDIA

02

DEFINED OBJECTIVES

PRINTED MAGAZINES

ABOVE: Here, Terry Godes flies his Cessna 170B over the Knik River Valley, a popular gathering place for wilderness flyers.

LEFT: A fall morning at Lake Hood, Anchorage, Alaska, where floatplanes are tied down at their private docks.

BELOW: Upper Lake George and the Lake George Glacier of the Chugach Mountains. The south central part of the state of Alaska is home to the Chugach Mountains, which contain several thousand glaciers.

ABOVE: Short Takeoff And Landing contests are all the rage, and lots of Alaskan plane owners take pride in their often highly modified planes. For many, though, STOL contests are mostly a great excuse to fly and hang out with friends.

RIGHT: Lake Hood, Anchorage, Alaska. Trucks like this one are used to do the work of towing and hoisting the floatplanes in and out of the water.

BELOW: Patrick Carter, an Alaska bush pilot in a Cessna 185 floatplane, heading over Resurrection Bay, Seward, Alaska.

ABOVE: This pristine turbine Beaver, a PT-6 equipped model, departing the seaplane base in Homer, Alaska.

TOP RIGHT: The Katmai Air-Turbine DeHavilland Otter (DHC3) at its base in King Salmon. This freshwater river is home to a few seaplane operations, and there's lots of activity during the summer months.

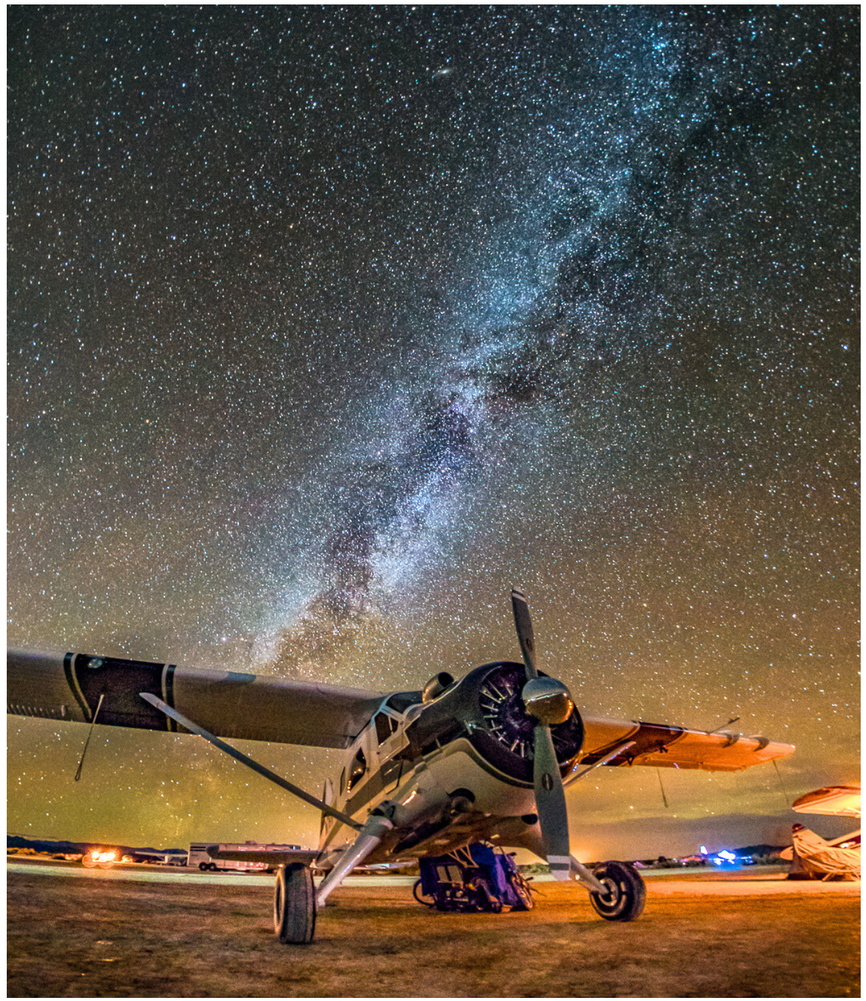
BOTTOM RIGHT: An upper Paradise Lake cabin with Regal Air. This area, just outside Seward, is filled with freshwater lakes, hiking trails and public use cabins.

BELOW: Patrick Carter and Courtney Martin, who together own NFlightCam, a video production company, getting ready to head out in an Aerocet-equipped Cessna 185. Like so many in Alaska, this location cannot be reached by road.

02

DEFINED OBJECTIVES

PRINT
MAGAZINES



02

DEFINED OBJECTIVES

PRINT
MAGAZINES

02

DEFINED OBJECTIVES

PRINT
MAGAZINES

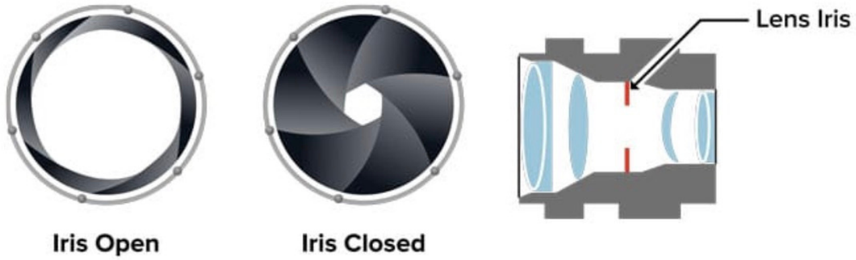
03

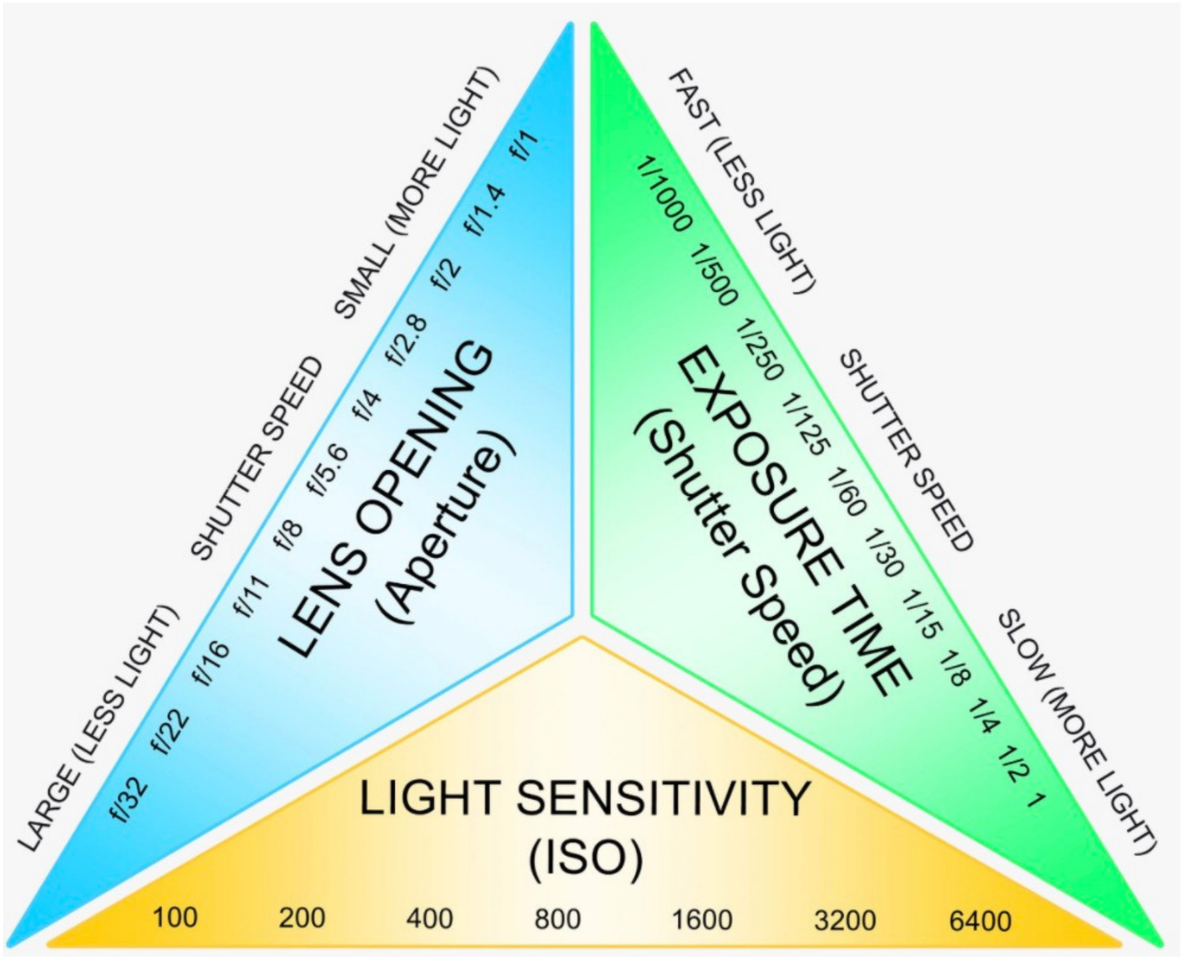
LIGHTING BASICS

APERTURE

SHUTTER SPEED

ISO





04

CAMERA AUTOMATION

APERTURE
SHUTTER
MANUAL

04

CAMERA AUTOMATION

APERTURE PRIORITY
SHUTTER PRIORITY
MANUAL SHUTTER AND APERTURE

04

CAMERA AUTOMATION

APERTURE = DEPTH OF FIELD

04

CAMERA AUTOMATION

APERTURE

04

CAMERA AUTOMATION

SLOW SHUTTER NO-PANNING

04

CAMERA AUTOMATION

SLOW SHUTTER SLOW-PANNING

04

CAMERA AUTOMATION

SLOW SHUTTER FAST-PANNING

04

CAMERA AUTOMATION

SLOW SHUTTER FAST-PANNING

04

CAMERA AUTOMATION

SLOW SHUTTER FAST-PANNING

04

CAMERA AUTOMATION

SLOW SHUTTER FAST-PANNING

04

CAMERA AUTOMATION

SLOW SHUTTER AIR-TO-AIR

04

CAMERA AUTOMATION

SLOW SHUTTER AIR-TO-AIR

04

CAMERA AUTOMATION

SLOW SHUTTER AIR-TO-AIR : PROPELLER SUNLIGHT REFLECTION

04

CAMERA AUTOMATION

SLOW SHUTTER AIR-TO-AIR : PROPELLER SUNLIGHT REFLECTION

04

CAMERA AUTOMATION

SLOW SHUTTER AIR-TO-AIR

- Sunlight Direction
- Frame
- Composition
- Perspective

04

CAMERA AUTOMATION

SLOW SHUTTER AIR-TO-AIR

- Sunlight Direction
- Frame
- Composition
- Perspective

05

MY GO-TO LENSES

Static displays

35/55 mm prime f/1.4

Landscapes / Static

24-70mm f/4.0

Air-to-air

Handheld

Image Stabilization (Mode 1,2)

70-300mm

06

TECHNIQUES & TIPS

Fireworks - long exposure

5 SEC

3 SEC

06

TECHNIQUES & TIPS

Fireworks - long exposure

5 SEC

06

TECHNIQUES & TIPS

5 SEC

06

TECHNIQUES & TIPS

FRAMING AND PERSPECTIVE

06

TECHNIQUES & TIPS

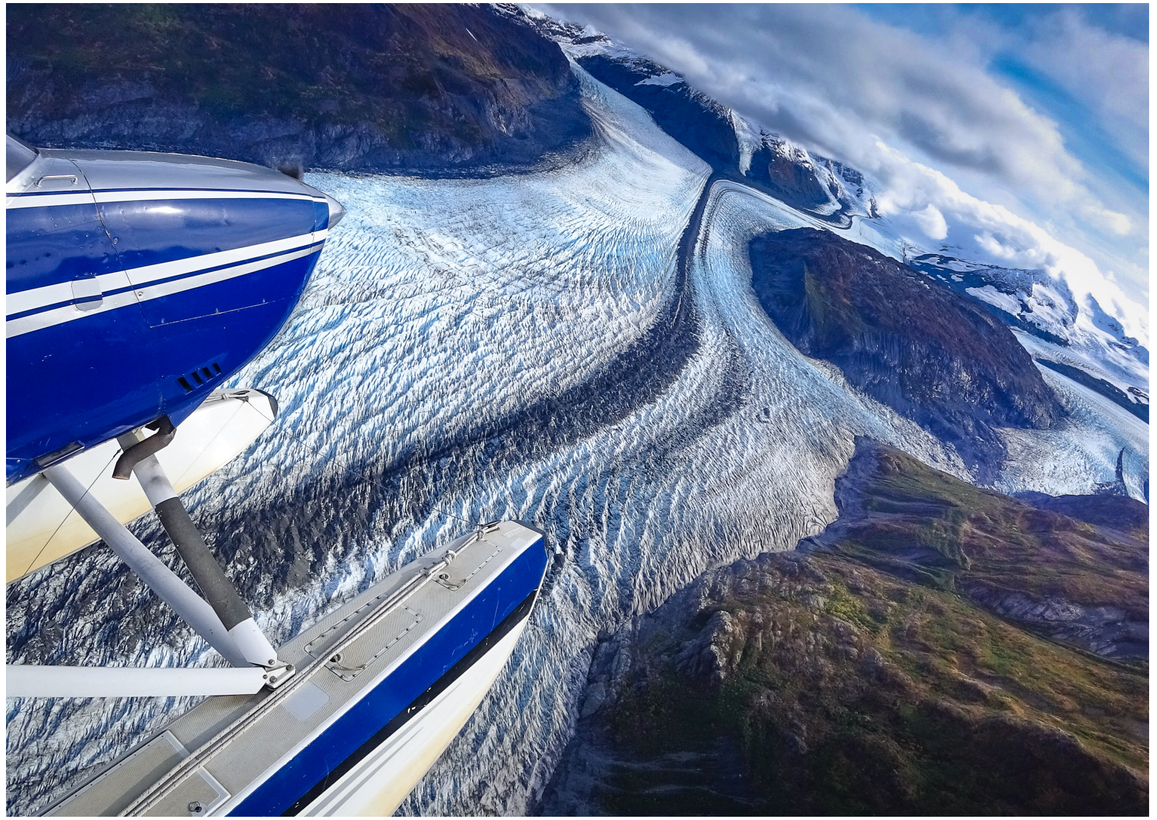
FRAMING AND PERSPECTIVE

20 SEC

06

TECHNIQUES & TIPS

FRAMING AND PERSPECTIVE



06

TECHNIQUES & TIPS

FRAMING AND PERSPECTIVE

06

TECHNIQUES & TIPS

FRAMING AND PERSPECTIVE + VIGNETTE

06

TECHNIQUES & TIPS

FRAMING AND PERSPECTIVE + VIGNETTE

06

TECHNIQUES & TIPS

Handheld Panning

Multi-frame
Image Stabilization Options (Mode 1,2)
Use RAW (instead of JPG)

1/100

1/60

07

FAST ACTION

1/100

1/15

07

FAST ACTION

1/100

1/60

07

FAST ACTION

1/115

07

FAST ACTION

1/100

1/60

07

FAST ACTION

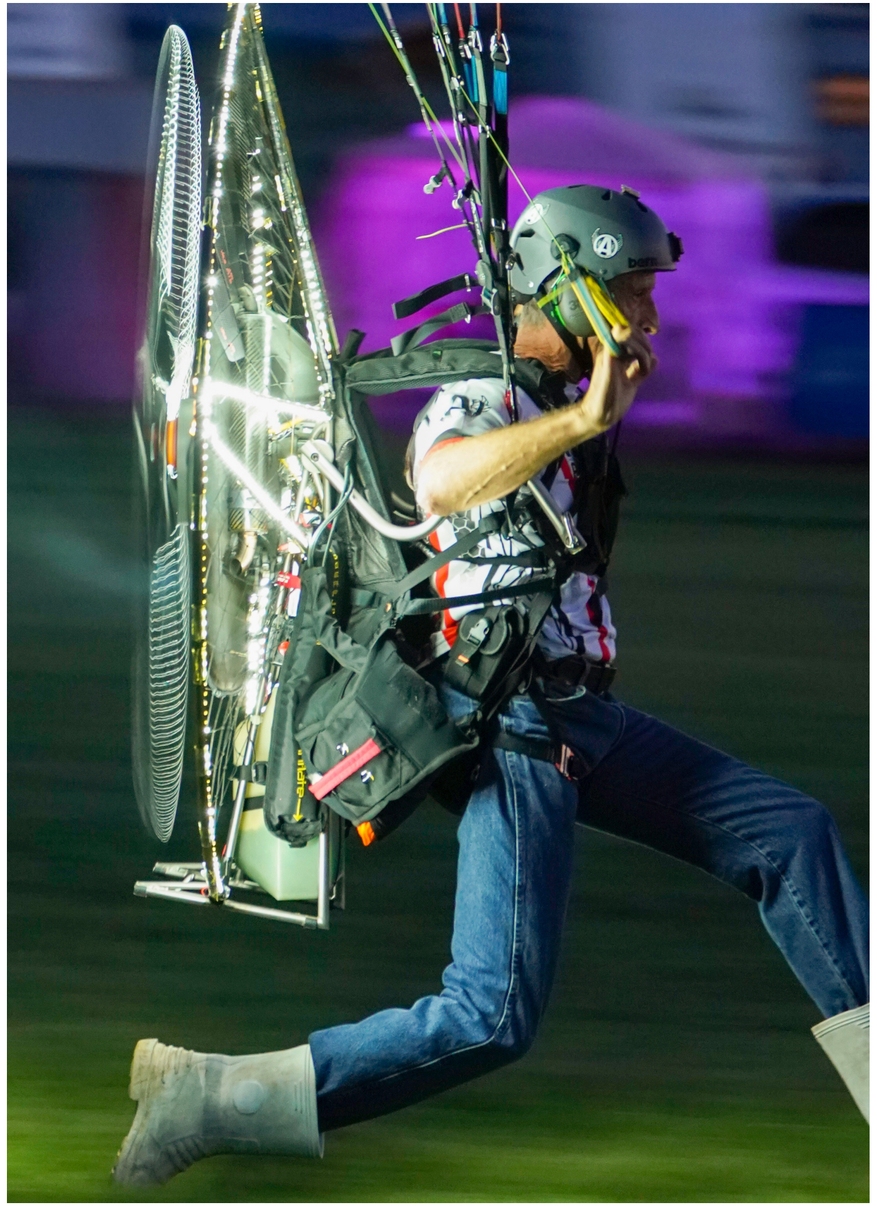
1/100

1/60

07

FAST ACTION

1/100



1/60

07

FAST ACTION

Use slow shutter speed

S = *f*(Prop RPM, # of Blades)

Eg: 1000 rpm, 2 blade prop

1000 RPM, rotates 1000/60 times per sec : 17 times per sec.

Therefore a exposure of 1/17 th, will capture a full rotation

Times number of blades : Only need half of that (2 blades)

Eg. 2 blade prop at 1000 RPM
Shutter speed = 1000/60 * 2

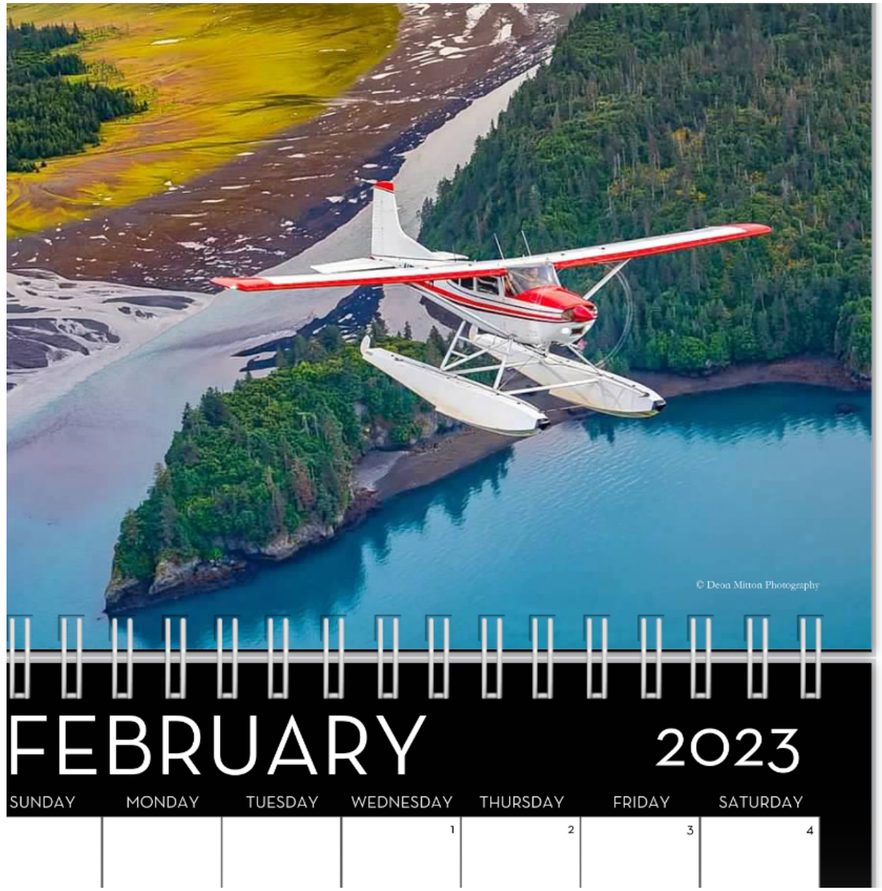
1/17th * 2 = 1/34th

08

SOFTWARE

Adobe Lightroom, Photoshop, etc

Dehaze Filter



THANK YOU

ZÜRICH

AIRPORT

TAKE ACTION EXPERIMENT