



# Fascinating drone light shows with AO Drones

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THE MOST IMPORTANT FACTS AT A GLANCE

TO A HIGHER LEVEL

WOW-EXPERIENCES AT THE HIGHEST LEVEL

## What we offer you



### Fascination

Choreographies and unique storytelling in the night sky



### Sustainability

Live event highlights, free from fine dust, noise and garbage



### Innovation

Marketing communication with high media coverage



NEW WAY OF ENTERTAINMENT

# The **advantages** of drone light shows



## FASCINATION

Creativity, light and technology merge into a unique experience



## INNOVATION

Technical progress and innovation become tangible



## SUSTAINABILITY

No garbage  
No fine dust  
No noise



## NOVELTY

Never before experienced show element surprises and enthuses the audience



## SAFETY

Multi-redundant sensors, geofence and autopilot



## CREATIVITY

Logos, fonts, shapes and colours.  
Synchronous, dynamic and three-dimensional.

HIGHLIGHTS FOR EVERY EVENT

# Fields of application



VARIETY IN THE SKY

## Design examples



Logos and graphics



Fonts



Animated 3D objects



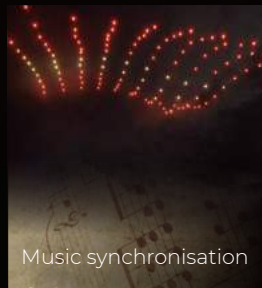
Animated sceneries



Flying video screens



Pyro drones



Music synchronisation



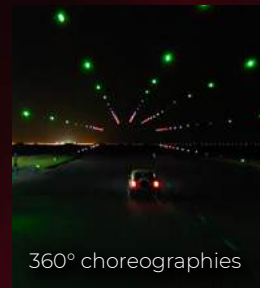
„Flying fireworks“



Interaction with objects,  
like QR codes



Combination of laser,  
light, music and video



360° choreographies



3D portraits



WE ACCOMPANY YOU FROM THE BEGINNING

# The project **schedule**



- Wishes
- Ideas
- Feasibility
- Offer
- Order



- Location Check
- Approval procedure
- Detailed planning



- Show design
- Programming
- Visualization
- Revision



- Delivery
- Rehearsals
- Adjustments
- Show(s)



- Debriefing
- Evaluation
- Documentation
- Media review

Phase 1

Phase 2

Phase 3

Phase 4

Phase 5

## BASIC REQUIREMENTS FOR A SUCCESSFUL DRONE LIGHT SHOW

# The 8 most important criteria

- 1 LEAD TIME**  
1-3 months, depending on permits, scope and location
- 2 AUTHORISATION**  
The consent of the responsible authorities is mandatory. We will gladly support you in this.
- 3 TAKE-OFF & LANDING ZONE**  
Depending on fleet size: from 1 sqm/drone, max. gradient of 10°
- 4 GROUND PROPERTY**  
Ideal: short lawn, dust-free paving, no coarse gravel or similar
- 5 SAFETY ZONE**  
Empirical formula:  
Flight altitude x 2 = necessary distance to the audience
- 6 RADIO & GPS SIGNAL**  
Perfect radio and GPS reception for safe flight control
- 7 AIRSPACE**  
Individual „location check“ clarifies the most important rules and restrictions
- 8 WEATHER**  
No precipitation and maximum 5 m/s wind during the show

VISIONS AND WISHES BECOME VISIBLE

## Visualization of the show contents

We enable the flexible creation of individual shows and coordinate content and procedure with you. With the help of advanced design software, including WYSIWYG 3D, we visualize and refine the programming and can give you insights at any time - as an image as well as a video preview.



Visualization as image



Realization



Visualization as video



Realization



WHEN THE QUANTITY MATTERS

## Comparison of drone number and effect



The number of drones determines how detailed fonts and images can be displayed. The more drones, the more it is possible to work with 3D and with sophisticated animations. Here is an overview in comparison.



WHERE WE COME FROM

## 25+ years of expertise in outdoor light staging

AO Drones is a division of Arts Outdoor Lighting Multimedia Events & Drones, a multimedia specialist based in Germany and the United Arab Emirates. AO developed the FALCON® series, the brightest searchlights in the world, and built a global company. Multimedia shows became AO's flagship products, such as 2000 Millennium Bell Berlin NYE, opening of Katara Amphitheater 2012, Burj Khalifa NYE 2018, 2019 & 2021, where light became an element alongside award-winning content, soundtrack and lasers. The Light Up 2018 show at Burj Khalifa was awarded the Guinness World Record for the largest light and sound show on a single building.

Since 2018, drone light shows under the AO Drones brand have been part of AO's repertoire. McDonald's Germany, Motorola's Razr product launch and the world's first music video drone show for Pnau feat. Ollie Gabriel are among AO Drones' first customers.



EVERY DRONE SHOW IS A UNIQUE OPPORTUNITY

## That's why **AO Drones**

### **PROXIMITY**

Our global locations enable simplified logistics & customs procedures. And we like it personal.

### **EXPERIENCE**

We have been staging outdoor light shows and shaping the entertainment industry for over 25 years.

### **RELIABILITY**

You can talk a lot. We also stick to it and act accordingly. Project management we can.

### **CONTACT TO AUTHORITIES**

Direct contact with official decision-making bodies is the result of our many years of work.

### **QUALITY OF SERVICE**

We take the time for you, your questions and wishes. What we do, we do with passion.

### **FULL-SERVICE**

Design, planning, approval procedures and implementation - all from one source.

### **ADD-ONS**

Multimedia productions with searchlights, laser show and video mapping

### **SCALABILITY**

Show concepts for every budget. No project is too big. No project is too small.

### **CREATIVITY**

A surprising idea remains the alpha and omega. We offer unique shows.

## HARDWARE FOR UNCOMPROMISING SHOW CREATION

# Numbers. Dates. Facts.

<p><b>1000s of Drones</b></p> <p>The control software developed for professional use can control thousands of drones simultaneously</p>	<p><b>31 min</b></p> <p>Maximum flight time incl. take-off &amp; landing phase. Ideal: 10-20 min/show.</p>	<p><b>6 - 10 m/s</b></p> <p>Maximum flight speed of fast formation flight</p>	<p><b>6 cm</b></p> <p>Formation up to 6 cm accuracy</p>	<p><b>840 lm</b></p> <p>Maximum luminous flux</p>
	<p><b>5.8G Wifi</b></p> <p>Network communication and multi-sensing redundancy</p>	<p><b>540 g</b></p> <p>Drone's weight with protector</p>	<p><b>500 m</b></p> <p>Maximum flight altitude</p>	<p><b>16.7 Mio</b></p> <p>Colour gradations</p>
				<p><b>-10 up to ~50 °C</b></p> <p>Working temperature</p>

ON THE ROAD ALL OVER THE WORLD

# Customers worldwide trust in the know-how of AO





# AO DRONES

Start now your  
**PROJECT REQUEST**

