

Pixel Light Show Drone

DYNAMIX



DESIGNED,
MANUFACTURED
& SUPPORTED IN
THE UK



WE'RE A TEAM OF
ENGINEERS,
OPERATORS, AND
ENTREPRENEURS

About Us

Our mission is simple: to design a product that is safe, effective, and easy to use. Managing hundreds of drones is a complex task, but we simplify this process for our operators;

We've focussed on creating a complete ecosystem that is simple and safe to use. From partnering with leading software providers to developing unique remote on/off power systems, smart batteries and chargers we're striving to ensure simplicity for our operators.

We're a team of engineers, operators and entrepreneurs supporting projects all around the world. Our ethos is to support our customers to ensure their operations are a success, from demonstrations to support operating live shows, we're here every step of the way.

AUTHORISED BY
THE CIVIL AVIATION
AUTHORITY



PIXEL

The 'Pixel' drone is designed for ease of use and usability in mind. It's quick setup, and seamless deployment in lightshow displays, utilising vibrant and high-performance LEDs for brilliant, captivating visuals make it the drone of choice.

Weighing just 400g, this compact drone is packed with features including remote power on/off, dual-band RTK, redundant communications and smart batteries for safer, simpler charging, with durable charging cases that charge up to 20 batteries at once.

A unique remote on/off system, featuring dual-band communication with WiFi and 433/915 MHz, allows users to control multiple aircraft remotely from a ground control station.



UK DESIGN
MANUFACTURED
LIGHTSHOW
DRONE

SMART
QUICK-CONNECT
2S LI-ION
BATTERY



UNIQUE REMOTE
POWER ON/OFF

DYNAMIX



The drone uses an F9P dual-band RTK positioning system, offering higher accuracy, faster survey times, and ensuring precise alignment of drones with each other during shows.

Pixel's compact design allows drones to be laid out quickly and ready to fly. With its increased accuracy Pixel can be placed with just 50cm spacing to other drones requiring much less space to operate.

Despite its small size Pixel can handle strong winds up to 25mph with its high thrust-to-weight ratio and agile handling.



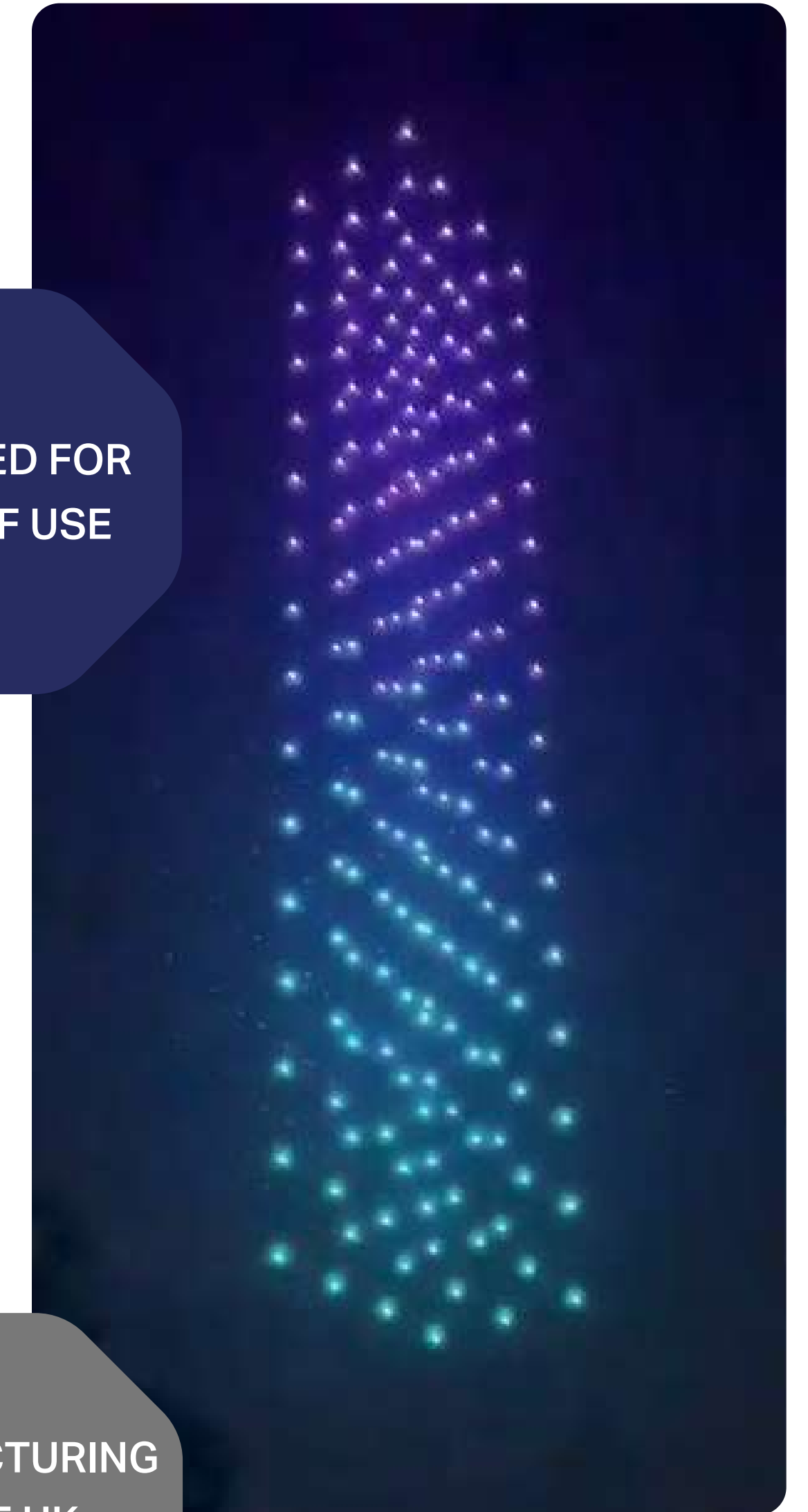
REMOTE
ON/OFF FOR
ALL DRONES



DESIGNED FOR
EASE OF USE



MANUFACTURING
IN THE UK
AND THE USA



Specification

Light Weight Drone	400 grams
Compact Design	295 mm size
Wind Limit	12 m/s
C2 Link	2.4 Ghz WiFi
Redundancy Channel	433 Mhz / 915 Mhz
Dual Band RTK GPS	F9P
Operational Range	1 KM
Smart Battery	2S Li-ion
Flight Time	21 min
Show Flight Time	15 min
Remote On/Off	Yes

WEATHERPROOF,
LIGHTWEIGHT &
COMPACT ONLY
400G

DUAL-BAND
RTK POSITIONING
WITH ZED-F9P



AGILE AND HIGH
WIND RESISTANCE
UP TO 25MPH

MANAGE
DRONE SWARM
OPERATIONS WITH
EASE USING
SKYBRUSH

Our Partners

We're partnered with SKYBRUSH and SKYSTAGE who have actively engaged in the development and testing of the Pixel Lightshow Drone.

Skybrush provides operators with a simple, intuitive software interface to plan, design, review and operate drone displays with ease. A Skybrush Pro software license is included with your Pixel purchase.

Skystage has developed a unique website for creating drone shows online without the need for prior experience. Their creative team can also create a fully customised show for you.

Using advanced software from Skybrush & Skystage, the drones can be controlled from the ground, with show designs easily uploaded and executed, enhancing safety and streamlining operations.

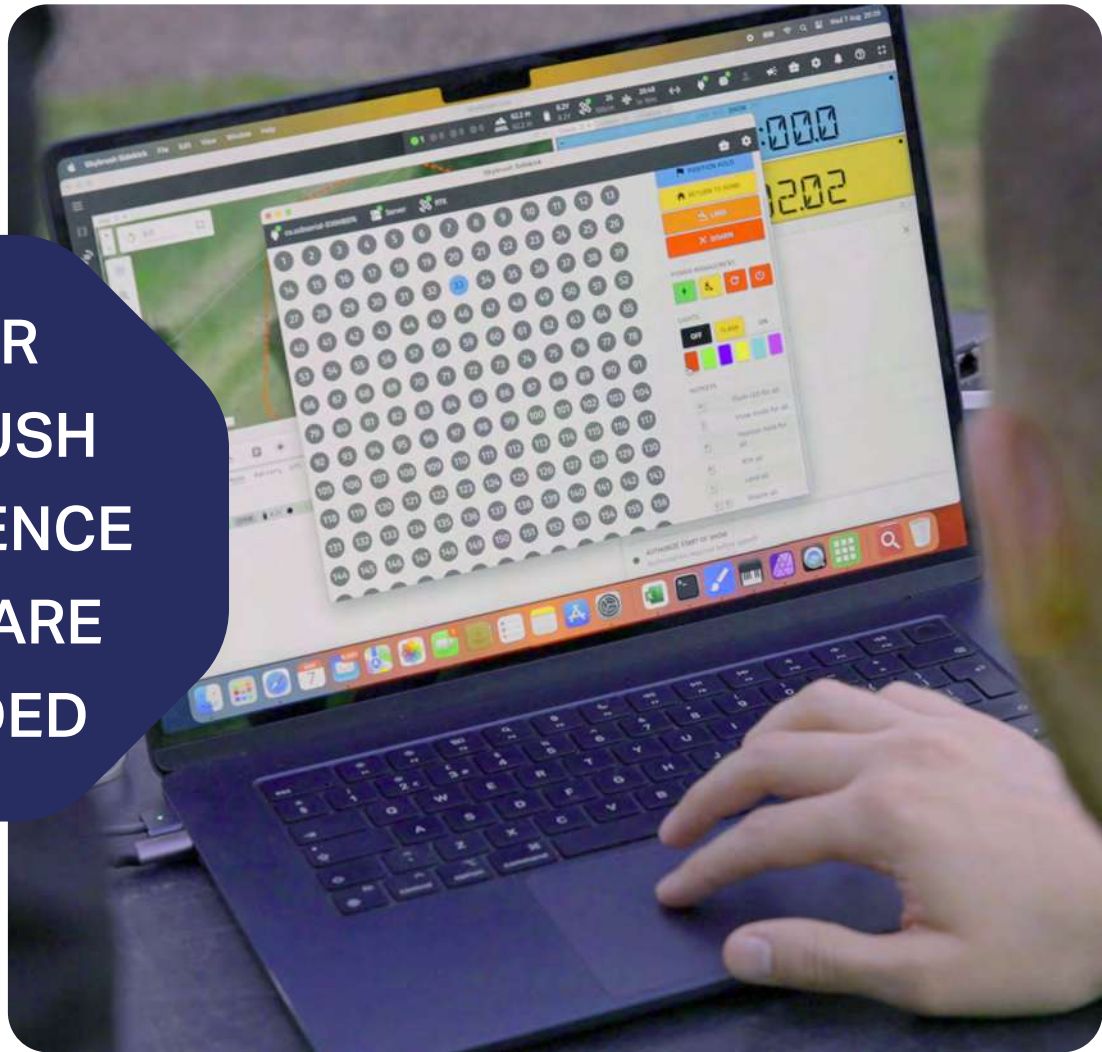


[Visit Skybrush](#)

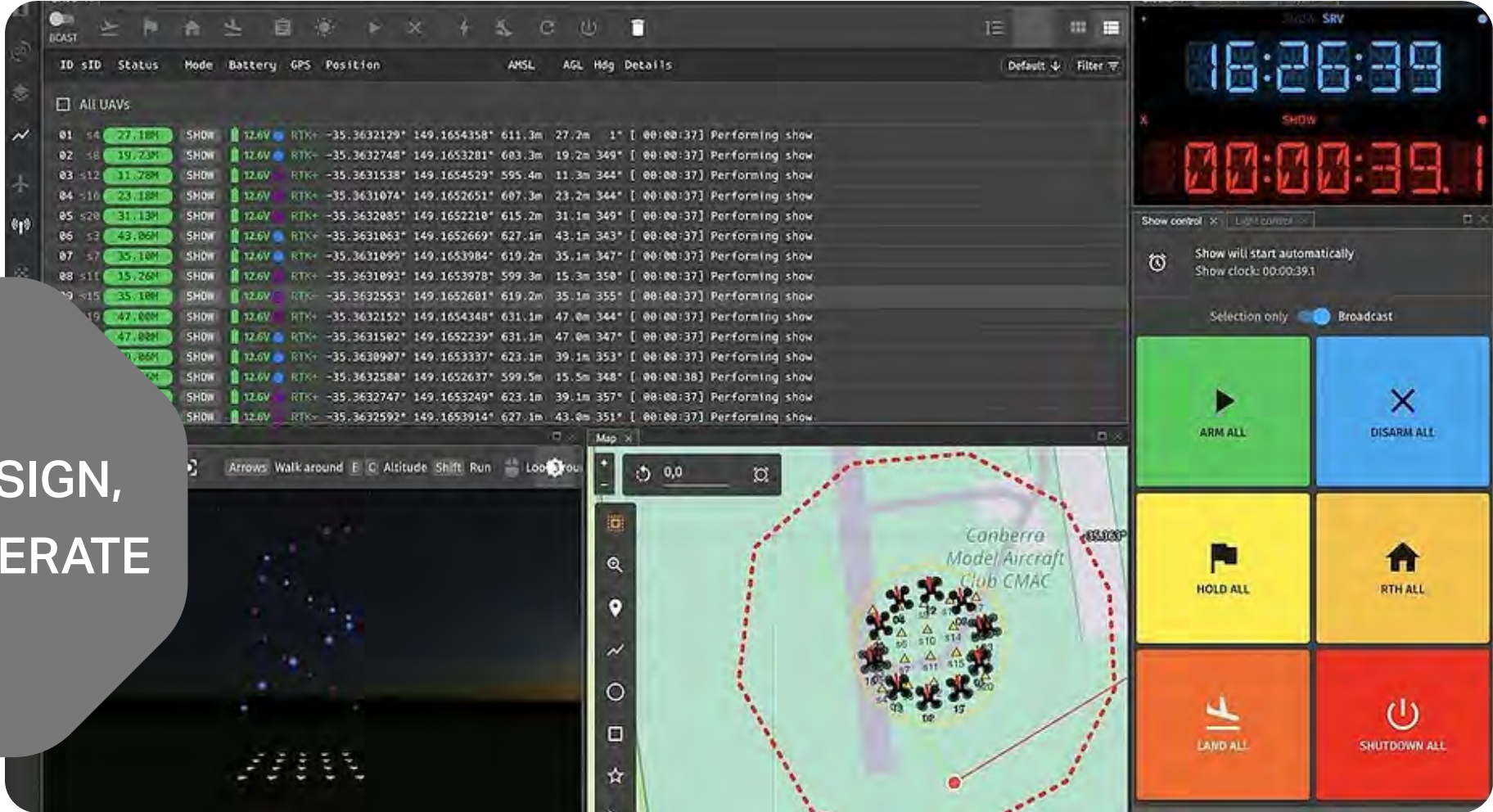
[Visit SkyStage](#)



1 YEAR
SKYBRUSH
PRO LICENCE
SOFTWARE
INCLUDED



PLAN, DESIGN,
VIEW & OPERATE



Ground Control System

A Ground Control Station (GCS) is the central command hub for managing and controlling your drone swarm.

Our GCS is equipped with a 2.4GHz WiFi Command and Control system, Access Points, A Secondary C2 link (422MHz or 915MHz), and RTK Base Station for ensuring precise coordination and real-time monitoring during operations

With 4G LTE support, the GCS system allows for easy on-site connectivity to map data online.

Simply connect the GCS to your laptop, attach the antennas and power, and you're ready to manage your drone swarm.

Note: Tripods are not included in the GCS bundle.

INTEGRATED
COMMAND AND
CONTROL SYSTEM



REDUNDANCY
433 Mhz / 915 Mhz
SECONDARY
CHANNEL

OUR GROUND
CONTROL STATION
FEATURES DUAL
BAND C2 LINK



Drone Carry Cases

Our rugged drone cases are designed for secure and reliable transportation, capable of holding up to 22 drones at a time.

Each case features three removable levels of inserts, allowing you to carry up to 8 drones at a time to the takeoff pads.

The cases are waterproof and are fitted with wheels and handles for easy mobility, ensuring your drones are well-protected during transit.

Whether you're moving across a site or traveling long distances, these cases provide the necessary protection to transport your entire fleet.

RUGGED
PIXEL DRONE
TRANSPORT
CASE



CARRY UP TO 22
DRONES PER
CASE SECURELY

SUITABLE FOR
INTERNATIONAL
SHIPPING





CHARGE UP TO
20 BATTERIES
SIMULTANEOUSLY



ROBUST AND
RUGGED PIXEL
BATTERY CHARGE
CASES

CHARGE 20
SMART BATTERIES
IN JUST
1.5 HOURS.

Battery Charging Case

Our rugged battery charging cases are designed to efficiently charge up to 20 batteries simultaneously, taking just 1.5 hours for a full charge.

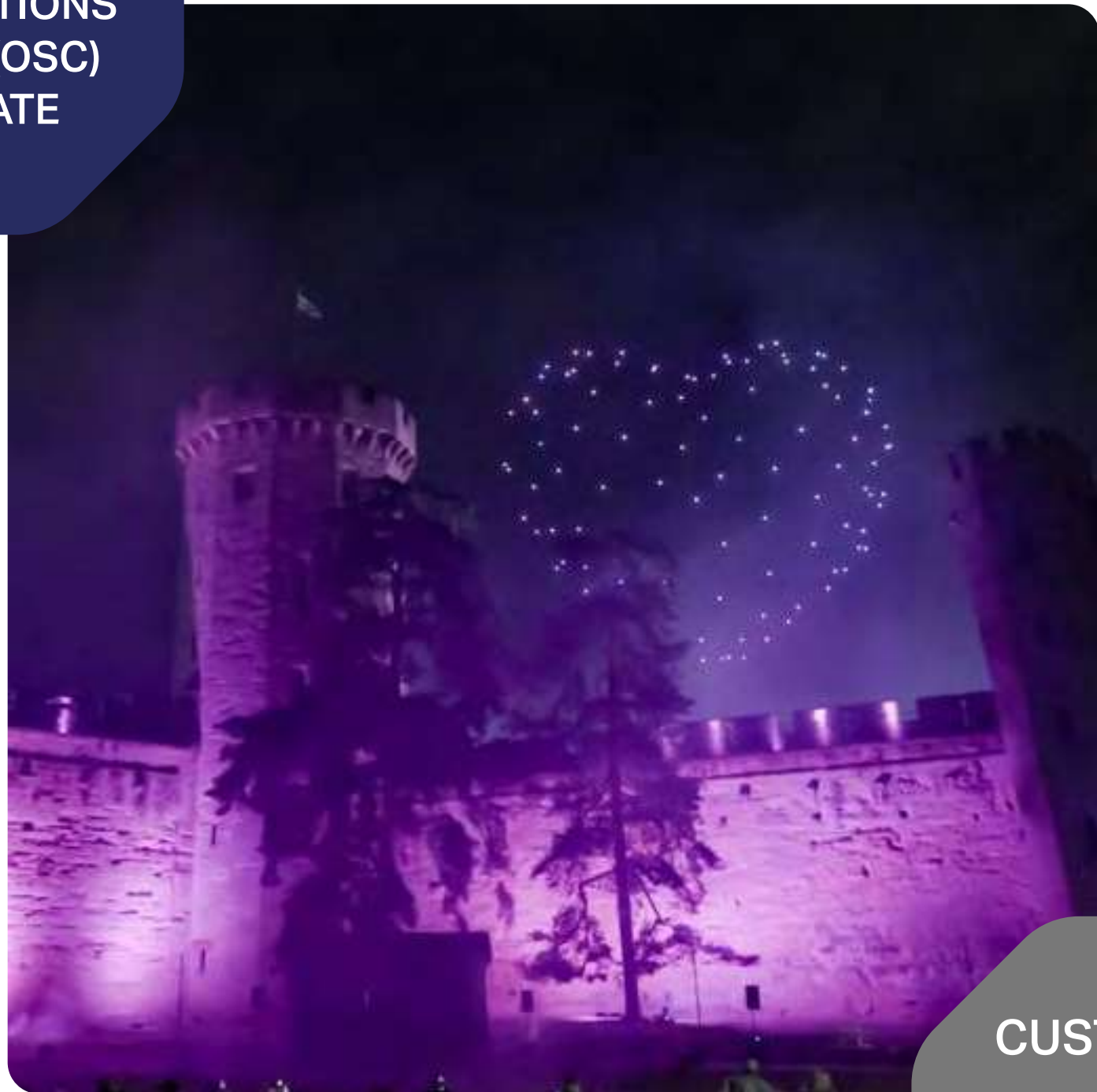
Equipped with a smart battery system, these cases offer easy and convenient charging for your operations.

The cases feature an LED charge status light for each individual battery, providing clear visibility of charging progress.

Included in the GCS bundle, these robust chargers ensure your drones are always ready for action without delay.

WE PROVIDE A
CAA APPROVED
UK OPERATIONS
MANUAL (OSC)
TEMPLATE

UP TO 15
MINUTES
SHOW TIME
(21MINUTES HOVER
FLIGHT TIME)



CUSTOMERS
CAN EXPERIENCE
A DEMO BEFORE
ORDERING

Operate Spectacular Displays

You can add extra drones to your swarm at anytime if required, we will set up new drones to add to your current Pixel Fleet.



Our Pricing

20 Drone Package

Includes:

- 20 Drones
- 1 Battery per Drone
- 1 Rugged 22-Drone Transport Case
- 1 Year Skybrush Pro License Software
- 3 Days of On-Site Training
- Technical Support

This package is tailored for smaller drone swarm displays and is a fantastic option for beginners in the industry.

Price: £22,995 (£1,149.75 each)

100 Drone Package

Includes:

- 100 Drones
- 1 Battery per Drone
- 5 Rugged 22-Drone Transport Case
- 1 Year Skybrush Pro License Software
- 3 Days of On-Site Training
- Technical Support

This package is tailored for getting started in the lightshow industry providing you with a good number of drones to get started with.

Price: £114,975 (£1,149.75 each)

200+ Drone Package

Includes:

- 200 Drones
- 1 Battery per Drone
- 10 Rugged 22-Drone Transport Case
- 1 Year Skybrush Pro License Software
- 3 Days of On-Site Training
- Technical Support

This package is for creating impressive large-scale drone displays, offering a discount on bulk drone purchases.

Price: £199,000 (£995 each)

Ground Control Station Bundle

Includes:

- 1 Ground Control Station Box
- 1 F9P RTK Base Station
- 1 WiFi Access Point
- 1 Smart 20 Battery Charger

This package gives you everything you need to operate a drone swarm up to 200 drones

Price: £2,495

Optional Extras

- | | |
|--------------------------------|------|
| • Smart 20 Battery Charger | £795 |
| • Spare Battery | £40 |
| • Additional Transport Case | £795 |
| • Additional WiFi Access Point | £179 |

Frequently Asked Questions

1

Is There a Minimum Order Quantity?

20 drones is the minimum order quantity, we are able to offer discounts on larger order volumes.

2

How Many Drones Are Needed For A Light Show?

This is entirely subjective although we have found 20-50 drones is enough to start with smaller events, with 100-200+ being more appropriate for larger commercial shows.

3

Can I Arrange A Demonstration?

Yes, of course. We can arrange a demonstration at our testing site here in the UK. Get in Touch Today!

4

Are Drones Able to Fly in the Rain?

Pixel has been designed to operate in moderate rain in the event of a shower during a show. If there is strong persistent rain before take-off we do not recommend flying.



5

Do You Provide a Complete Solution Including Training and Software?

Yes, we've partnered with Skybrush to offer an intuitive, easy-to-use software package. We also provide training and demonstrations before purchase.

6

What Permissions Are Needed to Fly a Drone Light Show?

You will need to check with your National Aviation Authority. We do provide a CAA approved operations manual for you to reference.

7

Can I Add More Drones at Anytime?

Yes, of course, if you would you like to expand your fleet then we can configure new drones to match your current setup free of charge.

Contact Us Today

Email: info@lightdynamix.co.uk

[Light Dynamix](#)

