

## Intel Breaks Guinness World Records Title and Lights Up the Sky at Winter Olympics with Intel Shooting Star Drones

Feb. 9, 2018 – Intel® drones lit up the skies above the Olympic Winter Games PyeongChang 2018 breaking a **GUINNESS WORLD RECORDS™** title and dazzling audiences around the world with a performance powered by Intel Shooting Star™ drones.

In a pre-recording broadcast at the opening ceremony, Intel set a new Guinness World Records title with the *"most unmanned aerial vehicles airborne simultaneously"* – 1,218 drones lit up the sky in colorful illustrations, including the iconic Olympic rings.

See below for additional information:

### Opening Ceremony

- 1,218 Intel Shooting Star drones took to the sky to set a new Guinness World Records title for the most drones flown simultaneously
  - This new record was achieved in December 2017 and was prerecorded for the opening ceremony
  - The previous record for the most drones flown at one time was set by Intel in 2016 with 500 drones flown simultaneously in Germany
- The drones painted the sky with colorful illustrations, including a snowboarder and the Olympic rings

### Intel's Drone Light Shows

- Intel created an entirely new nighttime entertainment concept powered by Intel Shooting Star drones
- Intel Shooting Star drones were used for previous light shows at various other high-profile events
- Intel Shooting Star drones are designed specifically for light shows and weigh only 330 grams – slightly more than the weight of a volleyball
- Intel Shooting Star drones feature built-in LED lights that can create more than 4 billion color combinations in the sky
- Intel Shooting Star drones are constructed with a frame made of flexible plastics and foam
- All the drones for these shows are controlled by one computer and one drone pilot

### Technical Specifications

Type	Quadcopter with encased propellers
Size	384 x 384 x 93 mm
Rotor Diameter	6 inches (~15 cm)
Maximum Take-off Weight	330 g
Typical Show Duration	5 - 8 minutes
Maximum Range	1.5 km
Maximum Tolerable Wind Speed	10 m/s
Maximum GPS Mode Airspeed	10 m/s
Maximum Light Show Airspeed	3 m/s

## **Animation and Operation**

The software and animation interface on the Intel Shooting Star drone system allows a light show to be created in a matter of days or weeks depending on the animation complexity. Intel's proprietary algorithms automate the animation creation process by using a reference image, quickly calculating the number of drones needed, determining where drones should be placed, and formulating the fastest path to create the image in the sky.

The light show control software also runs a complete fleet check prior to each flight and is able to select the most optimized drones for each flight based on battery life, GPS reception and more. The fleet size is dependent on the complexity of the animation needed.

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