

# THE CRANE GUY



## The FlyLine Ultra

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The FlyLine Ultra is a point to point, zip line style, cable cam system

Pick two points between 20 and 650\* feet apart

Attach a line of 8mm Dyneema\*\* rope between the anchor points

Hang the FlyLine Ultra trolley and remote head

Now your'e ready to FLY

The FlyLine Ultra cable cam system is designed and manufactured in the USA from aluminum, carbon fiber, and stainless steel. It's tight machining tolerances ensure a rigid & durable structure. The FlyLine Ultra trolley in conjunction with the DJI Ronin Gimbal which is equipped with all of the Cinemilled add ons\*\*\* so it can support longer and heavier camera package, can accommodate cameras like the Canon C500/300/100 series, Sony FS100/700, Red Epic or cameras similar in size.

Anchor points are fixed points like trees, truss, columns, beams, or other permanent structures. They can also be movable anchors, like a forklift, scissor lift, scaffold or similar. The anchor points must be able to withstand between 300 to 1,500 pounds of pulling tension at the rope connection point.

The FlyLine Ultra trolley is equipped with a Kenyon KS4 gyro to stabilize the system from most line sway. The trolley employs an ultrasonic motor driver and a specially designed multi-brush motor, both of which are almost silent. The result is an extremely stable and almost silent trolley. The trolley is powered by on-board lithium polymer battery packs. It's able to drive up a slope of slightly over 15 degrees at weight of around 30lbs and can travel on a level slope at up to 50lbs all up weight. It is possible to reach speeds of up to 45mph on an unsloped cable or move as slow as 18" per minute for smooth slow motions. Braking is done electrically and is known as a Asynchronous Regenerative Braking\*\*\*\* (ARB). The results with ARB are staggering. Putting as much as 50% of the power back into the battery for each acceleration/ deceleration pair. The benefit is, of course, a greater duration/distance from a set of charged batteries.

The FlyLine Ultra is controlled by two operators. One operator for the stabilized gimbal head, and the other "flies" the trolley along the fly line. Shots are viewed live at the camera operator station via the Ghost-Eye 400M\*\*\*\*\* wireless HD transmitter.

\*650 feet is the maximum length available as a standard package. Extra lengths, up to 1,500 feet, available at extra costs.

\*\*Dyneema® is an UHMwPE (Ultra High Molecular weight Polyethylene) fibre developed by DSM in the Netherlands little over 20 years ago. An ingredient material in many of our ropes, Dyneema® is light weight and renowned as "The World's Strongest Fibre™". The 8mm Dyneema is rated at 13,700 lb breaking strength. When stretched out to 100m and the FlyLine hung on the Dyneema, expected tension on the rope shall be less than 1,500 lb leaving a safety factor of just over 9.0

\*\*\*DJI Ronin Gimbal with Cinemilled parts for heavier and longer camera packages supports 16 lb maximum.

\*\*\*\*ARB is accomplished with an industrial robot motor driver which means you're putting power back into the battery when you decelerate or apply the brakes. Much like newer electric automobiles now do.

\*\*\*\*\*Ghost-Eye is a long range wireless HDMI/SDI transmission system that employs today's most advanced wireless video transmission technology. It can transmit a broadcast-class uncompressed 3G SDI/HDMI HD video signal with no compression and