

# 4Sky TECHNICAL DETAILS

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## **MOTOR WINCHES**

Four motor winches are installed one in each corner of the flying-area; each of them is winding a rope running through pulleys. Each winch weighs 300kg and measures 80 x 140 x 104 cm. The four winches are connected circularly with a multiple fiber optics cable (Single Mode) connected with the control unit at the operator desk. Maximum torque 406,66Nm

## **CABLE**

Model: Kevlar CamLine, with 4,6mm diameter and a weight of 18,3g/m. Maximum payload 958,40Kg

## **PULLEYS**

Made in aluminum with a maximum tested payload of 1961Kg (without losing faculties)

## **TRACTIVE FORCE AND CATERNARY SAG**

Each of the four ropes is loaded with a maximum tractive force of 80kg (will be limited by the servo-drive of each winch automatically), that means a catenary sag of 10% - this is equivalent to approximately 1/10 of the diagonal distance. A distance of 150 m matches a sag of 15 m

## **DOLLY**

Weight: 25kg (w/ camera). The power for the camera is supplied by four storage batteries which have to be changed after 3-4 hours. The dolly is two-axis gyro stabilized

## **POWER SUPPLY**

For each winch 380/410V 16A with 12A minimum (32A / 400V 3P+N+E Red Housing Plugs) must be protected with an error-current circuit breaker (with minimum 300mA differential). For the operator position 220V/240V 10A Schuko.

## **HD CAMERA / LENS**

Panasonic AK-HC 1800 HD / Canon 2/3" wide angle 14 x 4,3mm

## **CCU**

Camera and lens control should be operated by outside broadcast van

## **OPERATOR POSITION / CONTROL DESK UNIT**

The operator must have a clear view over the area the system is moving. The operator desk requires an area of 3 x 4 m

## **CABLE CONNECTION**

All signals are transmitted via fiber optics with no data loss, no wireless transmission (1x video camera image (HD), 1x Data (lens and camera functions control), 1x video PGM (HD), 2x audio 3-Pin XLR (Intercom), 1 x Tally 3-Pin XLR

## **SAFETY**

BGVC1 (in progress)

## **FORCE MAJEURE**

In case of danger due to not influenceable factors and unforeseen risks like heavy storms or thunder and lightning we reserve the right to cancel any operation of the system for safety reasons, disclaiming any liability

## **SECURITY**

The positions of the winches may not be accessible for unauthorized persons. Additional security staff may be required.