

# SPIDERCAM® SC250 FILM SETUP REQUIREMENTS

This document will give you an overview of component dimensions, power requirements, load bearings, etc. for the installation of a **spidercam**® SC250 Film. As every venue is different, please consult spidercam GmbH and arrange a site survey with an installation specialist to confirm the best possible installation layout of the **spidercam**® system.



## 1. CONTROL STATION

- The Control Station location must grant an unimpaired view of the entire Flying Area
- Footprint: Minimum 3m x 2,5m (10ft x 8ft)
- Weight without Operators: approximately 120kg (260lbs)
- Power requirements: 110VAC-230VAC, 16A, 50/60Hz, 1 Phase plus ground and neutral

### 1.1. CONNECTION TO THE BROADCAST COMPOUND / OB-VAN

Depending on the camera used the **spidercam**® SC250 Film will record directly to reel (35mm), to a Dolly-mounted data storage or can send an HD/SDI or 4k Signal in real-time to the control station, where it can be recorded or forwarded to the director's recording device.

#### **Option 1:** HD-Video

- 1x video BNC camera signal (HD/SDI)

#### **Option 2:** 4K Video

- Quad Link (4x BNC 3G HD/SDI)

#### Other

- 1x video BNC program (HD/SDI)
- 1x Ethernet, RJ-45 8-pin for RCP/CCU
- 2x 3-Pin XLR for intercom
- 1x 3-Pin XLR for tally



## 2. WINCHES

- No obstruction between the Winch and the respective Pulley for the catenary cable
- Winch dimensions: 148cm x 88cm x 87cm (58in x 34,5in x 34in)
- Winch weight: 315kg (694lbs)
- Winches must be protected against unauthorized access with security barriers and security personnel, or setup in an area that is inaccessible to the public
- Power requirement (**spidercam**® systems can be delivered in one of two configurations):
  - 400VAC, (-10% - +10%), 32A, 50Hz, 3 Phase plus ground and neutral.(IEC 60309 400V 32A 6h IP44 3P+N+G)
  - 480VAC (-10% - +10%), 30A, 50Hz/60Hz, 3 Phase plus ground and neutral. (IEC 60309 480V 30A 7h IP44 3P+N+G)

Each power supply has to be secured by an individual fuse and an earth leakage circuit breaker, which is immune to interferences of frequency modulators.



## 3. PULLEYS

- No obstruction between the Pulley and the Winch, as well as the Pulley and any possible Dolly position.
- Pulley Mounting Plate Dimensions: 30cm x 30cm (12in x 12in)
- Pulley weight: 5kg (11lbs)
- Pulley Load during regular operation: max 1.2kN
- Pulley Load Bearing Capacity: 10kN

### 3.1. DIMENSIONING THE ANCHOR POINTS FOR PULLEYS

The **spidercam**® Pulleys are designed to withstand forces of 10kN. The force exerted on the Pulleys by the system during operation does not exceed 1,8kN. The actual dimensioning of the anchor points depend on the local legal regulations, weather influences etc., and has to be determined by a local static engineer or specialist.



#### 4. DOLLY

- Flying Area must be completely unobstructed, e.g. no other cables, constructs or big screens in the Flying Area

#### 5. INTERCONNECTIONS

The Winches and Control Station need to be interconnected with Fiber cables. spidercam GmbH will provide heavy duty outdoor cables to connect them, and the setup crew will put them in place during the system setup.

#### 6. EXAMPLE INSTALLATIONS



