

BOWCAM SETUP REQUIREMENTS

1. GENERAL

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

2. 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

2.1.1. CONNECTION TO THE BROADCAST COMPOUND / OB-VAN

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

3. WINCHES

- No obstruction between the Winch and the respective Pulley for the catenary cable
- Winch dimensions: 163cm x 90cm x 88cm (64in x 35.5in x 34.5in)
- Winch weight: 395kg (870lbs)
- 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:
 - 400VAC, (-10% - +10%), 32A, 50Hz, 3 Phase plus ground and neutral.(IEC 60309 400V 32A 6h IP44 3P+N+G)

Each power supply has to be secured by an individual fuse and a B RCD (as per EN501778), which is immune to interferences of a power converter.

4. PULLEY-CRADLES

- No obstruction between the Pulley and the Winch, as well as the Pulley and any possible Dolly position.
- Pulley-Cradle mounting plate dimensions: 30cm x 30cm (12in x 12in)
- Pulley-Cradle weight: 15kg (33lbs)
- Pulley-Cradle load during regular operation: max 1.8kN
- Pulley-Cradle load bearing capacity: 10kN

4.1.1. DIMENSIONING THE ANCHOR POINTS FOR PULLEY-CRADLES

The **Bowcam** 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.

5. DOLLY

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

6. 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.

7. EXAMPLE SETUP

