CamBall 5 HD / 4K

Weatherproof PTZ Camera



- HD or 4K @ 50p or 60p
- 3G or 12G BNC output
- Serial, Fibre & IP built in
- DMX, Free D, M*, Motion Control Protocols
- Real Time Metadata for VR & AR
- 64 pre-programmed Moves
- Weatherproof & Rugged Carbon Fibre
- 18x Optical Zoom Lens
- Adjustable Dynamic Range up to HDR
- Full Matrix Control

The **Camball 5** is the most radical update of the Camball series. It now employs direct drive motors which are both more powerful, smoother and silent.

It has 16 bit positional metadata in Free-D format for VR and AR applications which is output as serial data and onto the IP network. Fibre is built in too and our unrivalled CCU control.

Because we build these in our own factory, custom modifications are also available.

iBase

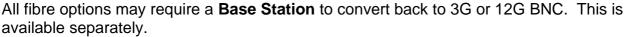
The **iBase** is standard with XLR4 power and control inputs, 3G/12G BNC output, genlock input, twin fibre and network connections.

Free-D is streamed onto the network at all times.

Standard 1/4" and 3/8" camera threads are provided underneath together with a rigging safety bond point.

Other options can be fitted to customer specifications;

- Lemo SMPTE connector with 48v power.
- Neutrik or other connectors
- Lemo replacement of XLR for IP66
- Fibre Optic Slip Rings (FORJ)
- Rain Wiper



Controllers

The most useful controllers to use with the Camball 5 is the Multi Function Controller in conjunction with the Remote Camera Panel Mk3.



These 2 controllers will give full access to all the features of the camera, including the pre-programmed moves and all the pre-set positions.

The **RCP** can be located remotely from the **MFC** and can control all the CCU functions of up to 4 cameras.



Specifications

Sensor: ½" Sony sensor. 3840 x 2160(4K), 1920 x 1080(HD)

3840 x 2160 @ **50/59.94,60**, fps 1920 x 1080p @ 50/59.94,60 fps 1920 x 1080i @ 50/59.94,60 fps

Lens: 18x Zoom 6.6 – 120mm, F1.4 – F28, Auto/Manual Iris. 49mm filter thread.

HFOV: 60deg. to 3.5deg. approx.

Min Illumination: 3.0 lux @ F1.4, video 50%, Gain 30dB

Gain: 0 - 30 dB

Shutter Speed: 50/60 to 10,000

White Balance: ATW, 1-Push, 5600k, 3200K, Manual,

Red Gain, Blue Gain

Black Balance: Master Pedestal, Red Ped, Blue Ped, Green Ped. (-100 to +100)

Chroma: 0 - 200%Detail: 0 - 7

Noise Reduction: Dynamic 1-5 or Off Gamma: Normal, +/- 2,

Dynamic Range: Low, Med, High (HDR - HLG curve)

Knee: 75%, 80%, 85%, 90%, 95%, 100%, Off (HDR mode)

Colour Space: Rec.709, BT.2020

Matrix: Hue, Sat, Depth, for Mg, Red, Yel, Gn, Cyn, Blue.

Power: 20W @ 12 - 24v

Inputs: 12v – 24v + RS485 control data via XLR4

48v – optional via SMPTE or XLR5

IP – optional via RJ45 Genlock – via BNC

Mstar, DMX or FreeD control protocol via Dsub or network

Fibre control – optional via ST, LC or SMPTE

Outputs: 3G or 12G – via BNC

3G or 12G over fibre - optional via ST, LC or SMPTE

Metadata (FreeD) – via Dsub. and IP network

Pre-Sets: 64 including Pan, Tilt, Zoom & Focus

Pan Tilt Angle: Tilt 280deg. Pan 340deg, (continuous with optional slip rings)
Pan Tilt Speeds: 10 gears, fully proportional from 0.01deg. sec. to 100deg/sec.

Weight: 3.7kg

Dimensions: H.231mm x W.166mm x D.190mm

Environmental: IP65 or IP66 optional

Temperature: -5 - +35deg C.

Details on specific functions on request. E&OE. Specifications may change without notice.

