

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**

All fibre options may require a **Base Station** to convert back to 3G or 12G BNC. This is available separately.



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 – 30dB
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.

