BR REMOTE
your vision
Broadcast Camera Systems
our focus

CamBall
4Ki

4K 50/60p, Weatherproof Camera

- **4K 50p or 60p**
- **12G BNC output**
- **Fibre output options**
- **HD / 4K switchable**
- **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** evolution continues with the new **Camball 4Ki** - the latest in the long line of the **Camball** models, now in full broadcast-standard 4K at 50/60p and with 18x optical zoom lens.

There is also a **VR** variant with 16bit absolute shaft encoders for VR and AR applications. All **Camball 4Ki** cameras have fibre and IP options 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 and a BNC genlock input.

The Dsub connector provides positional outputs and inputs in various formats.

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

The **iBase** can also be fitted with a number of other options;

- **Lemo SMPTE** connector with **48v** power.
- **48v** via XLR5
- **Fibre Control and Pictures** with ST, LC, Neutrik or other connectors
- **Control over IP** with an RJ45 IP input
- **Lemo** replacement of XLR for **IP66**

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

Controllers

The most useful controllers to use with the **Camball 4Ki** 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 up to 1km 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 @ 12v
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
	Fibre control – optional via ST, LC or SMPTE
Outputs:	12G – via BNC
	12G over fibre – optional via ST, LC or SMPTE
	Metadata (FreeD) – via Dsub.
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.

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