

HD COLOUR SUPER SPYBALL

Model SSB-HDZ *Now with Ultra Low Light Colour Camera*

Submertec's revolutionary Spyball combines a remote control underwater video camera with pan and tilt unit in one compact assembly that can rotate to look in any direction – without restriction.

The new Super Spyball is a completely new development that builds on the success of the original version but with significant changes to enhance performance, reliability and functionality. **(They are NOT interchangeable)**

Positional feedback on the pan and tilt motors provides the ability to move the camera by angle as well as speed. Pan and tilt speed is automatically reduced as the lens is zoomed in to ensure fine positioning even when zoomed in.

Left / right and up / down limits can easily be set as required. Multiple camera positions can be saved as presets together with zoom and focus settings for automatic return as required.



This model is fitted with an ultra low light colour zoom camera with 1080p HD-TVI video signal for use with cables up to 200m long.

HD-TVI monitors and DVRs are readily available or simply convert to HDMI / VGA.

Control of all Super Spyball functions is via Pelco-D protocol and additional non standard commands are incorporated to access special features that are not included in standard Pelco-D. The Super Spyball can also be controlled using Modbus.

Text can be embedded in the picture to identify camera location, number etc.

Improved shaft design and seals have been combined with internal water and humidity detection to provide on-screen advance warning that maintenance is required.

External Spyball parts are machined from solid Titanium and blue Acetal Co-Polymer to ensure long and corrosion free service in seawater. Use of an 8 pin wet mateable connector allows the cable to be connected even in adverse weather or even underwater if necessary.

The Super Spyball can be incorporated into an existing or new Pelco control network using the SS-CPE Pelco interface unit. An integrated converter provides HD-TVI and HDMI connections for display and record.

Alternatively, a robust custom control system can be produced for marine aquariums and zoos to allow operation by the public. Hidden controls can be incorporated to allow owners to preset the system as required.

SUPER SPYBALL Model SSB-HDZ SPECIFICATION

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Dimensions	160mm diameter sphere. (6.3 inches)
Weight	3.2Kg / 7.0lb in air 1.0Kg / 2.2lb in water
Operating Depth	300 Metres /1000 feet (500m pressure limit)
Movement	360 degree both axis—variable speed
HD Video	1080p / 720p @ 25fps or 30fps
Video Format	HD-TVI
Lens	10x optical zoom / up to 32 x digital zoom
Min Illumination	0.003 lux
Control Protocol	Pelco-D or Modbus via RS485
Baud rate	9600 or variable 2400-115200 via interface box
Power Required	24vdc / 40W

Spyballs are available in a number of configurations and with control options to suit a range of tasks from inspection to aquaculture – please visit our web site at www.submertec.co.uk to view these together with other Submertec products.



