

TRD New Beholder DS1 Manual

Beholder DS1 specification (32 bit system):

Height :300mm

Width:175mm

Depth :160mm

Net Weight (no camera) : 1090g

packed weight : 1790g

Box packing size:375mmx200mmx100mm

Max load weight : camera with lens 1700g

supported camera : canon 5D/6D/7D+16-35,24-105etc lens.

sony A7S series +24-70*12-35、A7R2、

panasonic GH4+12-35 etc

Direction shaft : 355°

Pitch : 355° , +-180° range

Rolling : 355° , +-60° range

Power : 3.7v 2600mah *3

working time : 3-4 hours (up to camera weight etc)

Max angle range : 90-180°

Products:



P/N : DS1

1. battery installing :

A. how to charge battery:

a. following pic 1、 pic2, let Micro USB charging cable insert into battery holder USBport , connect

with 1.5A-2A USB charger (iphone or samung charger or pc) , after connected ,

green light means connected.

some customer connected USB ---no green light --charger current less than 1.5-2A.

you can move 3pc battery (installed in battery holder, connected with USB) near your ear, you will hear noise in battery, it means still charging.

b. following pic 3 correct battery installing way , when charging battery, Red light means charging, Green light means full charged.

notice:

i . must use 1.5A-2A charger , otherwise battery holder light did not appear green or red.

USE less than 1.5-2A charger, battery holder light did not appear color, but still charging, move battery near ear, will hear battery noise, it means charging too.

ii . battery charging time 4-5 hours, you can buy fast charger 2-3 hours charging time



B. battery holder installing

a. as following pic, battery positive side up

b. battery negative side connected with spring part

c. 3pc battery installed on battery holder, then put into handle.

d. screw battery cap tightly .



Notice: you must install camera , then start the power.

2. camera installing :

A. install metal plate first as following pic, wide metal side face to camera lens part, metal plate install

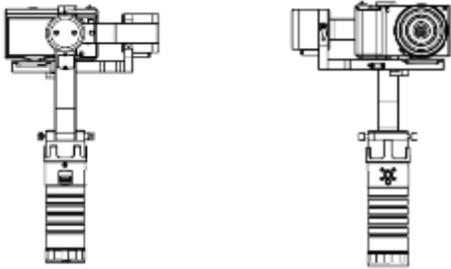
on the camera bottom side, screw no need to be tight, after camera balanced well, then tight the bottom screw .



A: installing plate



B: adjust camera front/back balance ,arm adjust , then lock pitch motor side 2 screw



C.adjust camera left and right balance ,arm adjust, then lock rolling motor side 2 screw.



D. adjust camera YAW balance, check pic above, hold camer as above, balanced, means YAW balanced. if not, adjust YAW motor side 2 screw to move arm, then tight screw after balanced.

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E. some camera no way to install, can use our special adapter metal pc.

installing step:

- 1.silicon tape stick to adapter. ;
2. adapter metal plate connect with camera botton side, screw into to connect
- 3.select best position hole in adapter plate, connect with camera botton side.
- 4.after installed adapter plate, make sure camera and metal plate no empty space, othewise easy to

cause gimbal vibration when operating.



adapter plate installing



standard metal plate installing

3. start gimbal instruction:

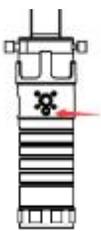
A.starting

a.Notice :

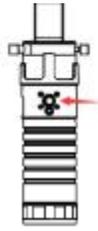
① must install camera, then ok to start gimbal power.

Beholder DS1 had 32 bit control system, double IMU.

b.joystick /power button operation:



power button



joystick button

when start gimbal, press the green power button, gimbal 90 degree up against the table level as pic following:



when power on , gimbal will go into following mode automaticly.

Joystick button--push left/right/up/down, gimbal will move left/right/up and down.

B. photoing other mode:

straight quick press the Joystick button, gimbal will go into lock mode.

straight press the joystick for 2 seconds, gimbal will go into half following mode.

C. DS1 calibration way:

when gimbal working some time, drift or appear inclined condition,

you need to calibrate the gimbal.

when you do calibration, gimbal must be on the level table, keep the gimbal balanced and no moving condition

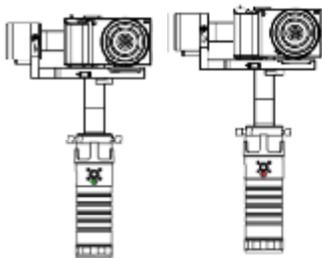


gimbal must be in still position.

gimbal control board side had one pc white color metal bar, pree one time, wait 5 second, let system do calibration.
(do not touch gimbal when calibration)



D. battery operation time



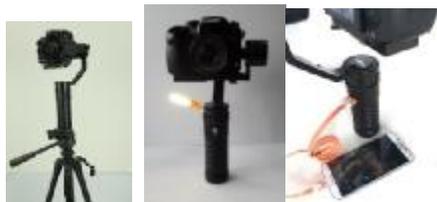
when see
green light , good to operate.
when see red light, need to charge.
when see flashing red light, must stop and charge battery

4. gimbal extension function:

A.ok to connect to tripod etc (1/4standard screw hole in our gimbal botton cap) ,

B.connect USB-LEDlight , night shooting

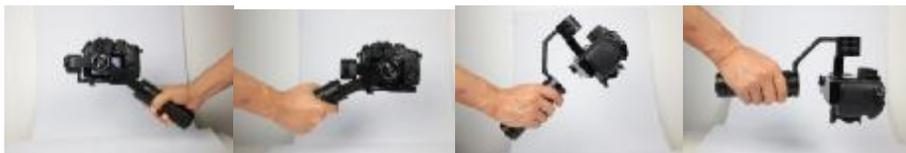
C.connect cell phone, for cell phone charging.(no need to power on gimbal)



5. supported camera style:

Beholder DS1support less than 1.7KG camera, support canon 6D/5D/7D、supported A7R2、A7S+24-70/12-35, GH4+12-35, GH3+14-140 etc camera

6. gimbal shooting way demo:



正手持左 45° 正手持右 45° 正手持俯拍 45° 正手持俯拍 90°



横手持右侧拍 横手持前右拍 横手持右拍 横手持前拍 横手持左拍

7. Notice:

1. DS1 setting down for all data, no need to do calibration when operating.
when gimbal working some time, drift or appear inclined condition,

you need to calibrate the gimbal. calibration detail step check info above

any question, email to xmhobbiesinc@gmail.com or check www.cnchelicopter.com

