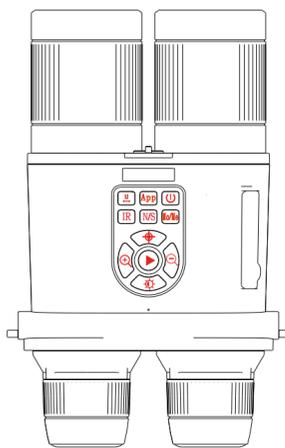


Digital Binoculars User Manual

Low-light & full-color night vision/Manual focusing



Basic Adjusting Operation:

How to adjust the binoculars with clear?

Firstly, this product is kind of hard to adjust, please kindly be patience when adjusting, but when you know how to get it work, it is easy for adjusting. The following is the step for how to get clear images.

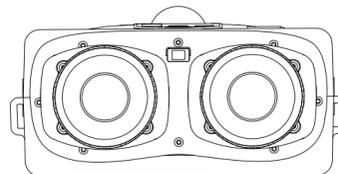
Step 1: Removing the lens cover.

Before you target the object, please make sure that the lens cover is removed. Some customers may forget it and then say it can't see anything.



Step2: Adjusting Eyepieces.

The silicone protective cover of the left and right eyepiece is rotated slightly by hand, so that the display screens can reach the best clear state respectively.



Adjust clockwise or counterclockwise

1

Step 3: Adjusting the Pupil.

After power on the binoculars, the two display screens may be showed, you can move eyepiece with inward or outward by hand until the two display screens merges into one.



Step4: Adjusting Objective lens.

Adjusting the right objective lens slowly and patiently to focus the target. Usually, if you focus far object, then please adjust the lens Counterclockwise. In contrast, adjusting slowly and slightly Clockwise for targeting near object. The left one can't be adjusted and rotated as infrared night vision lamp. Please kindly be patience when adjusting, we have tested several times, as long as we adjust slowly and patiently, the target will be very clear.



2

Caution

- When installing batteries, be sure to install them correctly according to the positive and negative poles in the battery compartment.
- Objective lens and eyepiece are precise optical devices. Please keep them properly to prevent collisions, scratches and corrosion.
- The usb cable and av line are customized exclusively. If you need to use them, be sure to use this original lines to avoid causing related dysfunction.
- Do not use alcohol and other corrosive liquids to wipe the appearance. The appearance is a rubber paint surface treatment process, which will be eroded by corrosive liquids such as alcohol.

Specification

Angle of View	4.8°	Power	7W(MAX)
Mag of objective	8X	Battery	9000mA LI-CON
Objective Lens	52	SD-Card	T-Flash(MAX 64GB)
Focus range	1m-∞	Mag of digital	10X
Num of screens	2	Power of LaserIR	3W(MAX)
Pixel per-inch	1440*1440	Distance Measurement	500m/1500m Optional
Sensor	200w Super sensitive image sensor	Battery life	8H(typ)
Video resolution	Up to 1920*1080	Photo resolution	Up to 12M
WiFi	iOS&Android	Compass	Yes
GPS	Yes	Pressure&Altitude	Yes
Gyroscope	Yes	Goniometer	Yes
Night Vision	Infrared & Lowlight full color	Dimensions	237*151*77mm
Weight	880g (With Battery)	Microphone	Yes
Work environment	5 C ~ 35 C 30%-90%	Storage environment	-20 C ~ 60 C 10%-90%

3

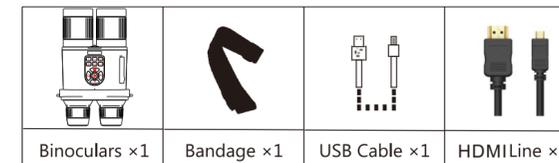
Warm Prompt

The system can be customized according to customer requirements, which is characterized by 5x / 8x optical lens. And the combination of 200W low light level night vision and 1600W daytime high-definition sensor. Thus, the intelligent digital binocular telescope with multi-functional combination can be customized to adapt to different use scenarios. At the same time, the system can select the image transmission system and PTZ system. The image transmission system can complete local remote deployment and 4G remote deployment.

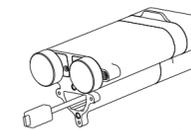
Product Introduction

The digital binoculars are designed with excellent optical, electronic and mechanical systems, and have clear objective imaging, stable electronic function and comfortable eyepiece. The digital binoculars allow you to view distant objects at the same time, take photos and videos, and record wonderful moments at night and day.

Contents in the Box

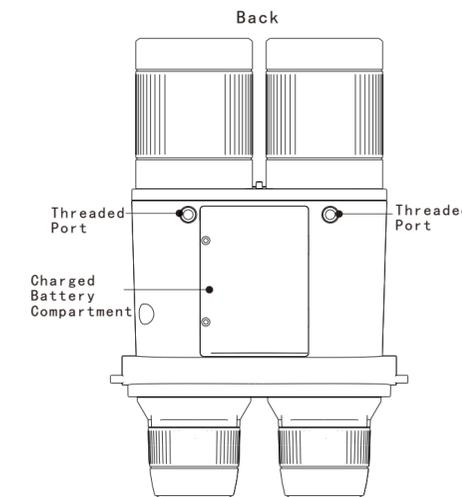


Warm prompt: the real accessories may be different from pictures.



Warm tips: the laser ranging + laser infrared complementary lamp integrated module is an optional accessory. Please contact the customer service for specific specifications.

4



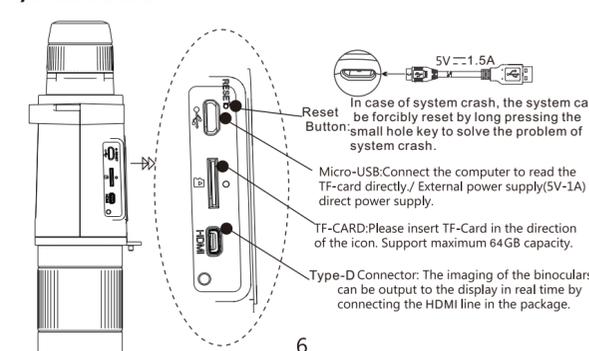
5

Operation Instruction

Key Operation

- ▶ Turn on/off the wifi function.
- ▶ Laser Rangefinder Short Press: In manual ranging mode, short press ranging once time.
- ▶ Short Press: In manual ranging mode, short press ranging once time.
- ▶ Preview: Set up from IR0 to IR3. IR0 stand for low brightness, IR3 stand for high brightness.
- ▶ Preview: Object enlarge. Menu: Last sub-item.
- ▶ Short Press: Take photo or video switching.
- ▶ Long press: Menu entry mode.
- ▶ Warm Prompt: The brightness in night vision mode can be set up from IR0 to IR3 according to scene environment. Adjust the object lens to match the objects at different distance, so you can see clear imaging.
- ▶ App key only be used when you need insert the TF-card.
- ▶ Press 3 seconds for power on or off.
- ▶ Centering display mode switching
- ▶ Switch between the search image mode and the normal image mode. The search image mode is a simulated thermal image, ignoring the image gray scale, and the target presents a high contrast state.
- ▶ Display brightness adjustment
- ▶ Preview: Function for take a video. Menu: Function for confirm.
- ▶ Preview: Object reduction. Menu: Next sub-item.

I/O Instruction



6

The digital binoculars uses object lens to take image, and image sensors to imaging, see the imaging on the screens through the eyepieces. The imaging adjustment is carried out according to the steps described below, and clear scene images can be observed.

Eyepieces Adjustment

The eyepiece system adopts near-eye display to optimize the optical design. It is a binocular structure and can comfortably view the display imaging. The imaging adjustment needs to complete the eyepiece imaging adjustment first.

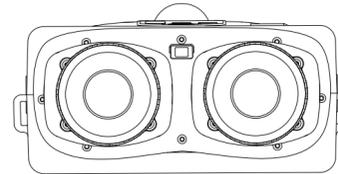
1 Pupil Adjustment

After power on the digital binoculars, the two display screens are viewed. At the same time, the eyepiece is moved inward or outward by hand. The best comfortable condition is to watch the two fusion display screens with the left and right eyes, that is to adjust the best pupil distance for the observer.



2 Eyepiece clear adjustment

The silicone protective cover of the left and right eyepiece is rotated by hand, so that the left and right display screens can reach the best clear state respectively.

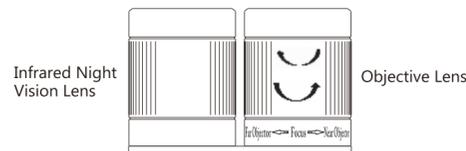


Adjust clockwise or counterclockwise

7

Objective Lens Adjustment

The objective lens adjustment system adopts high magnification, wide aperture objective lens, with clear imaging, high light transmission, large magnification imaging and other characteristics.



Adjust clockwise or counterclockwise

After power on the digital binoculars, the observer aligns the object lens with the object to be observed. Rotate the right objective lens clockwise or counter-clockwise with your hand and adjust it to the best visual effect.



Warm Prompt: The lens of the left infrared night vision lamp can not be rotated and adjusted for fixed installation; the observer needs to adjust the right objective lens to match the visual focal length when observing objects at different distances.

8

Troubleshooting

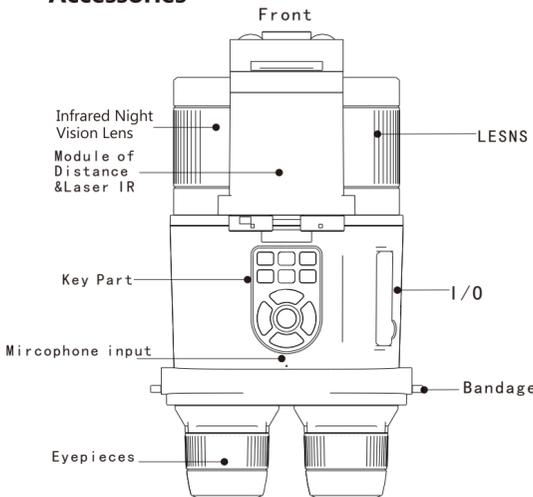
- 1 Unable to power on the digital binoculars
 - Please check whether the battery is sufficient.
- 2 Observe the distant view clearly but close range is unclearly
 - Please adjust the objective lens to achieve clear state.
- 3 Watch the screens blurred
 - Please adjust the eyepiece to achieve clear state.
- 4 Unable to view the scene in the dark night
 - Please turn on the night vision function, and the key on the touch button unit is marked with IR.
- 5 Unable to take photos or videos
 - Please ensure that the SD card has been inserted correctly.

Rangefinder Specification

Laser Wave	900-908nm
Laser type	LD
Range	5-1200m
Resolution	0.1m
Accuracy	+/-1m (5-100m); +/- (1+L*0.25%)m, (100-600m, L is target distance)
Correct rate	98%

9

Accessories



10

Screen transmission with WiFi

Step1: Please download app form app store for ios or android, search the "ismart dv" as key words.



Step2: Please setup the "ismart dv" app in your device such as smartphones or tablets with ios or android system.

Step3: Please insert one TF-card into the connetor of binoculars.



Step3: Please turn on the binoculars, then press the App key. You will see the wifi icon become green from gray.



Step4: Please setup your wifi of your smart device, you will see COOKIE_XXXXXX, then connect to the COOKIE_XXXXXX net. The password is "1234567890"

Step5: Please open the "ismart dv" app in your smart device, then add new camera, use wi-fi connect.

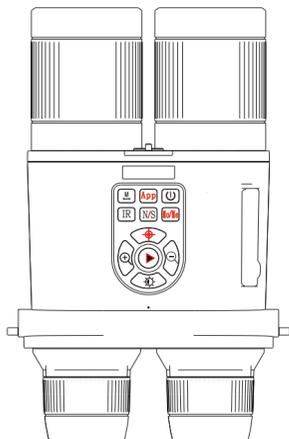


Step6: Congratulations, you will see the image on your smart device the same as the binoculars.

11

BNB898数码双筒电子望远镜

用户指南



微光全彩夜视&主动红外夜视/手动调焦版

尊敬的客户：

感谢您选择我们的产品，真诚的希望我们的产品能带给你优良的体验，请使用本产品前阅读用户指南，并妥善保管用户指南。

基础调节说明：

如何调节看到清晰的目标物图像？

首先，初次使用该设备，可能因为习惯性问题，导致调节不出清晰的目标画面，不必着急，请耐心的按照如下步骤进行，一旦您熟悉了设备的调节成像的方法，操作将变的非常简单。

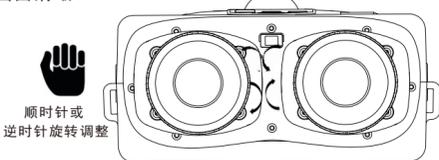
步骤1：移除物镜保护盖

在您进行设备使用前，请确保保护盖已经从物镜口移除，并妥善保管好保护盖，以便您长期未使用设备，物镜口落入灰尘以及异物等。造成物镜的沾污及刮花等损坏。



步骤2：目镜屈光度调节

请先开启设备，通过目镜看到显示屏出现画面，通过长按Mo/Me按键进入菜单模式画面。此时通过分别闭右眼，睁左眼/闭左眼，睁右眼并分别旋转左右目镜，调节屈光度，直到画面清晰。



屈光度调节

1

步骤3：瞳距调节

启动双筒数码望远镜后，观看两幅显示屏画面，同时用手向内或向外拨动目镜，左右眼观看两幅融合显示屏为最佳舒适状态，即为调整到适合观察者的最佳瞳距。



瞳距调节

步骤4：物镜调节

启动双筒数码望远镜后，调节右边硅胶套上丝印有

far objector ← Focus → near objector

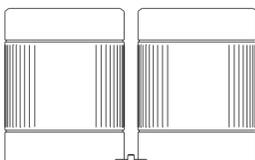
字样的物镜镜头，针对远近不同的目标物，按照图示字样的方向进行旋转调节，直到画面清晰，请耐心等待，当你掌握了远近物体对焦与物镜旋转的关系，便可快捷的进行操作，在不同远近目标物的观测间



2

物镜系统调节

物镜调节系统采用8*52，高倍率、大口径的物镜成像光学组件，具有成像清晰，高通光量，大倍率成像等特点。



启动数码望远镜后，观察者将物镜对准需要观察的物体用手顺时针或逆时针旋转右侧物镜光学镜头，调整至观察物体达到视觉最佳清晰效果即可。



温馨提示：左侧红外夜视镜头不可旋转调节，为固定安装；观察者对不同距离的物体进行观察，需要调整右侧物镜光学镜头，以匹配视觉焦距。

8

注意事项

- 安装电池时务必按照电池仓内正负极标识进行正确安装。
- 物镜及目镜为精密光学器件，请妥善保管，防止碰撞，刮花，腐蚀。
- 配件内的数据线及AV视频线为专属定制，如需使用到这些配件，务必使用本定制原装线，以免造成相关功能障碍。
- 请勿使用酒精等具有腐蚀性的液体擦拭机身外表，机身外表为橡胶漆表面处理工艺，会被酒精等腐蚀性液体侵蚀损坏。

可视角	4.8°	功率	7W(MAX)
物镜倍率	8X	电池	9000mAh LI-CON
物镜直径	52mm	SD-Card	T-Flash(MAX 64GB)
成像距离	1m-∞	数字变焦	1X-10X
显示屏数目	2	激光红外功率	3W
显示成像	1440*1440	激光测距	5-1000m
图像传感器	200w超感光Sensor	工作时间	8H(TYP)
摄像像素	Up to 1920*1080	拍照像素	Up to 12M
WiFi	iOS&Android	电子罗盘	支持
GPS	支持	海拔气压	支持
陀螺仪	支持	角度传感器	支持
夜视能力	微光全彩&红外夜视	尺寸	237*151*77mm
重量	880g	麦克风	支持
工作环境	5C~35C 30%-90%	存储环境	-20C~60C 10%-90%

温馨提示：系统可根据客户需求进行定制，特点在于可以进行5倍/8倍光学镜头的组合，以及200w微光夜视与1600w白天高清晰sensor的组合。从而定制完成具有多功能组合的智能数字双筒望远镜，适应不同的使用场景。同时系统可进行图传系统与云台系统的选配。图传系统可完成本地远距离部署与4G远程的部署。本规格为单sensor手动调焦版。

3

常见问题处理

- 1 无法开启双筒数码电子望远镜
 - 请检查电池电量是否充足；
- 2 观察远景清晰，看近景不清晰
 - 请重新调整物镜对焦，达到清晰状态。
- 3 观看显示屏内容模糊
 - 请重新旋转调整目镜，达到清晰状态。
- 4 黑夜环境无法观看景物
 - 请打开夜视功能；触控按键单元上的标有“IR”字样的按键。
- 5 无法拍照或录像
 - 请确保已经并正确插入SD卡。

激光测距规格

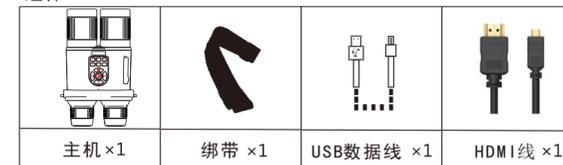
激光波长	900-908nm
激光器类型	LD
测距范围	5-1200m
测量分辨率	0.1m
测量精度	+/-1m (5-100m) ; +/- (1+L*0.25%)m, (100-600m, L为目标距离)
准确率	98%

9

产品介绍

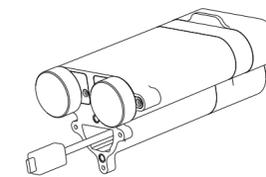
此系列数码双筒电子望远镜采用优异的光学、电子、机械系统融合设计，具有清晰的物镜成像，稳定的电子功能及舒适的目镜成像。同时具备夜视与白天的望远功能，尤其是其微光全彩夜视功能，性能出众，可在观看远处物体的同时，进行拍照、录像，记录精彩的瞬间。是一款同时集成图像传输，GPS、电子罗盘传感器，角度传感器，海拔气压传感器等多功能一体的智能数字双筒数字望远镜。

组件



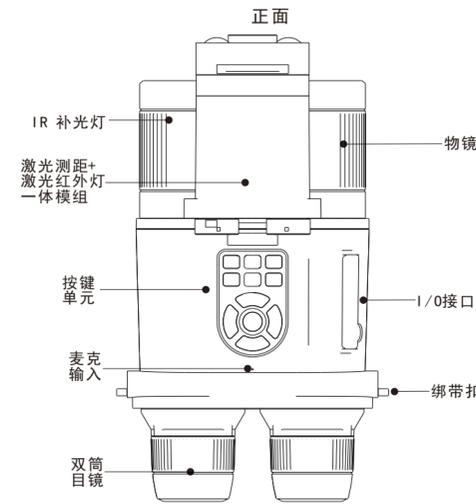
温馨提示：由于所选款式，本手册所示配件与实物可能有所不同。

温馨提示：激光测距+激光红外补光一体模组为选购配件，具体规格可联系客服询问。



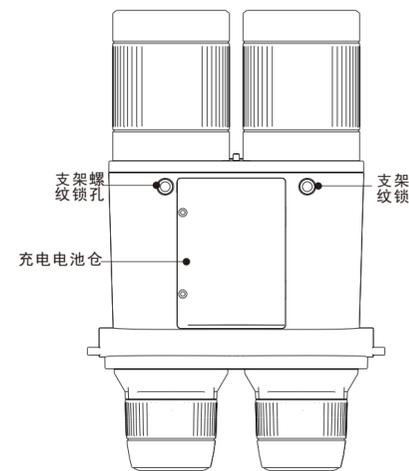
激光测距+激光红外补光一体模组

部件



10

反面



充电电池仓

5

图像传输->显示平板/手机显示终端（WiFi连接）

步骤1：请从应用商店下载应用程序，搜索关键词“ismart dv”。



步骤2：请安装“ismart dv”程序在智能终端上，支持IOS或android系统

步骤3：请插入TF-Card到设备的接口处。



步骤4：请打开设备，按设备上“App”按键，显示屏右上角wifi图标由灰色变为绿色。



步骤5：打开智能设备的无线网络连接，可以看到:COOKIE_XXXXX, 连接此网络，初始密码是：“1234567890”

步骤6：打开“ismart dv”程序，加载新的camera,选择wifi连接



步骤7：恭喜你，连接设置成功，设备图像通过无线网络连接已经传输到智能终端上，你可以在智能终端设备上观测目标图像。

11

操作说明

按键操作

设备开启与关闭WiFi连接功能

激光测距

短按：手动测距模式下，每次短按测距一次

长按：手动测距模式和自动测距模式切换

预览：在正常观测预览模式下，此按键可进行红外夜视灯亮度的调整。IR0:最低亮度，IR3:最高亮度

预览：在正常观测预览模式下，此按键可对目标物进行数字放大。菜单：在菜单模式下，此按键为返回上一个子菜单。

短按：拍照和录像模式切换

长按：进入菜单模式

长按3秒进入开机/关机

分位准心显示模式切换

搜索图像模式与正常图像模式切换

搜索图像模式为伪热图像，忽略图像灰阶；目标物呈现高对比状态，可快速找到目标物

显示亮度调整

预览：在正常观测预览模式下，此按键为拍照/录像确定键

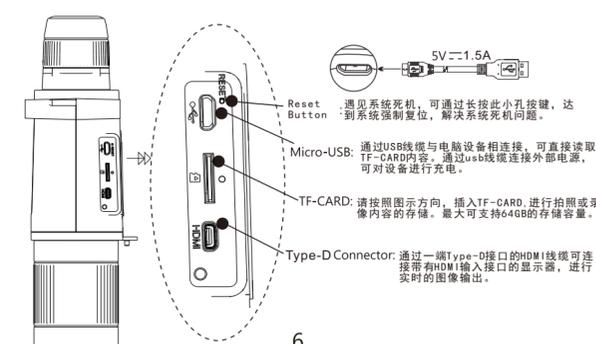
预览：在菜单模式下，此按键为菜单内容选择确定键

预览：在正常观测预览模式下，此按键为对目标物进行数字缩小。菜单：在菜单模式下，此按键为进入下一个子菜单。

温馨提示：红外夜视模式下，可根据实际环境情况，进行IR0-IR3的亮度选择，输出不同补光强度的红外灯功率，达到实际目标物观测的匹配效果。建议在有微光非全黑环境下，可采用正常全彩模式此设备的特征功能就是微光全彩夜视，无需开启红外补光，也可达到清晰微光全彩成像。

需要开启设备WiFi功能与终端手机或平板进行图像传输功能，请务必先插入TF-Card，否则此功能无效。

I/O 接口说明



6

步骤1：目镜屈光度调节

请先开启设备，通过目镜看到显示屏出现画面，通过长按Mo/Me按键进入菜单模式画面。此时通过分别闭右眼，睁左眼/闭左眼，睁右眼并分别旋转左右目镜，调节屈光度，直到画面清晰。



屈光度调节

7

步骤2：瞳距调节

启动双筒数码望远镜后，观看两幅显示屏画面，同时用手向内或向外拨动目镜，左右眼观看两幅融合显示屏为最佳舒适状态，即为调整到适合观察者的最佳瞳距。



瞳距调节

7