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Beagle V2

3D Printer Camera

Quick Guide Manual



Manual-Download



Beagle V2 Firmware Download

Beagle V2 camera supports
online upgrade



Beagleprint App Download



The lens has been adjusted,
DO NOT knob it before the WiFi connection.



PACKING LIST



Beagle V2



Gimbal x1
Tripod x1



Micro SD
Card x1
(Insert in camera)



Quick Guide
Manual x1

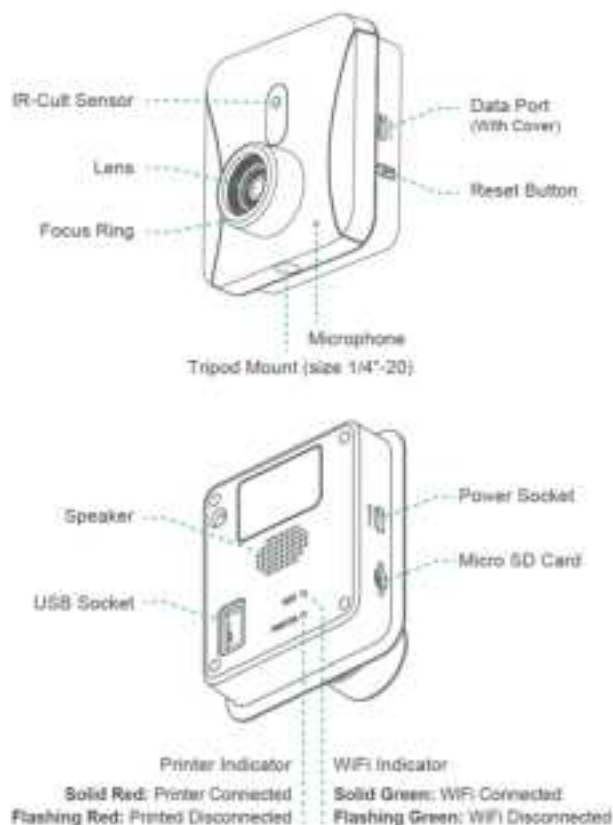


Power
Plug x1



USB-Type-C
Cable 1.5M x2
(For power)

CAMERA INTRODUCTION



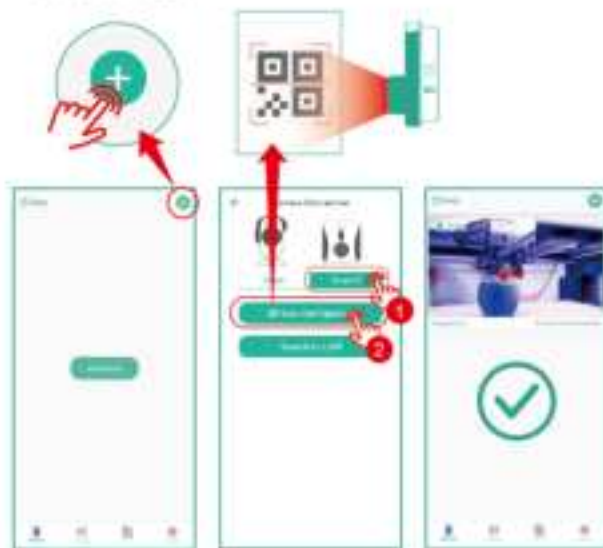
ADD THE CAMERA

Download Beagleprint.
Register an account and log in.



Power up the Camera until you hear the voice prompt "Camera is ready for Wi-Fi configuration", (expected within 1 minute).

Click + to add the camera and select the "QR Scan Configuration" for WiFi connection.



FIRST USE

Confirm Your Printer Type

To determine if your printer uses Klipper or Marlin, you can check at the following website: Why is this important? The camera connection method varies.



3D Printer Camera Compatibility

<https://www.mnion.net/pages/3d-printer-camera-compatibility>

[illegible]

1.Klipper Machine connection mode

Find the machine's IP address. 

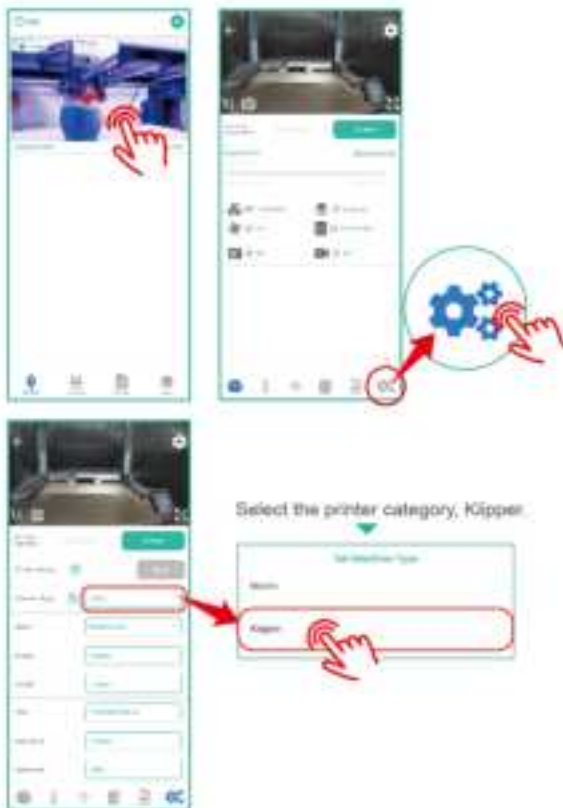
*You can find the IP information on the printer screen or check the printer's IP address in the router settings.

*The BeagleV2 Camera and Klipper machines connect via the network (no need to use a USB cable to connect the printer and camera).

*Generally, you only need to ensure that the camera and the printer are on the same network.

How to know if the printer and camera are on the same network? You can tell by the IP address. An IP address consists of 4 parts, and they are on the same network if the first three parts are the same. For example, 192.168.0.99 and 192.168.0.83.

Open Beagleprint, find and click on the camera, enter the dashboard interface, then find the next setup and click to enter.



Select the printer category, Klipper

Enter your printer mode->Enter the printer IP address->save



Successfully connected to the printer.

*What to do if you can't connect to the printer?

Troubleshooting steps:

1. Ensure the correct IP address is entered in Beagleprint. For example, for Ender3 V3/SV07, you should enter {IP address + port number}, such as 192.168.0.30:7125. Somepad may have different addresses corresponding to different ports.
2. Restart the router, restart the camera, kill and reopen Beagleprint, and try again.

Remember to check the printer's IP address, as it may change after restarting the router.

Start a print job from the Beagle-print app.



Monitor the print job in the Beagleprint app.



Upload files and start printing from the Fluidt interface.



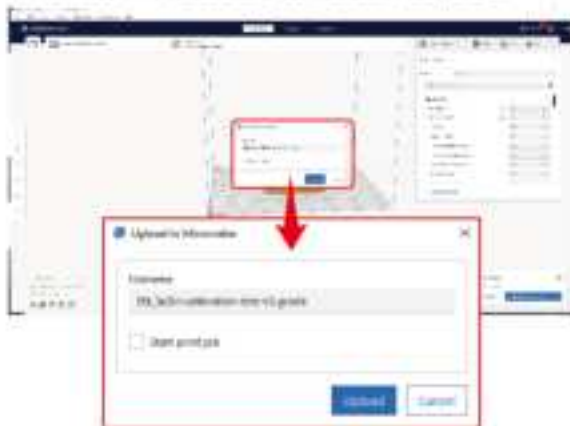
Upload files and start printing from the Mainsail interface.



Upload files from the OrcaSlicer slicer software and start printing



Upload files from the Cura slicer software and start printing

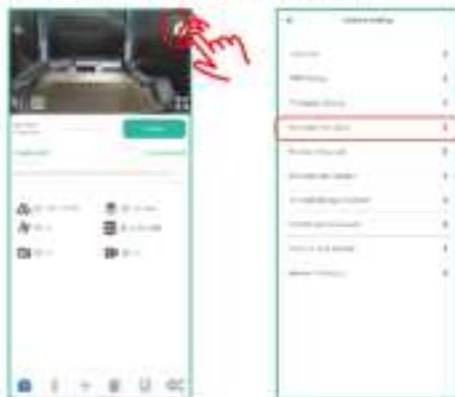


After printing is complete, you can also view the generated time-lapse video in the video file list in Boagieprint.



ADDING CAMERA TO FLUIDD/MAINSAIL

1. Find the Camera IP through the Beagleprint app.



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2. In Mainsail/Fluidt, find "Add Camera" and enter the Camera IP (refer to the specific settings in the image).



Camera Url Stream <http://192.168.0.55/pcam/mjpeg.cgi>



Camera Url Stream <http://192.168.0.55/pcam/mjpeg.cgi>

Camera Url Snapshot <http://192.168.0.55/images/snapshot0.jpg>

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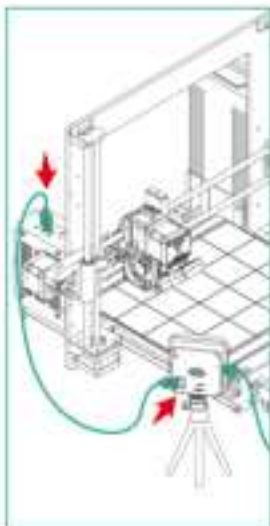
2.Marlin Machine connection mode

Click on the device on the device page to enter the device control page and set the printer model.

*Click on the corresponding space to perform the operation.

Use a USB cable to connect the Camera to the printer USB port.

*After the printer is started (when the printer screen is operative, the printer is considered to have completed the startup).



Connect the Camera by clicking the "Connect" button to connect the printer.

*After successful connection, the button will change to "Disconnect". Also, "Print OFF" only indicates that there is no current printing process.



Click "+", upload the G-code file, and click "Print" to start printing.



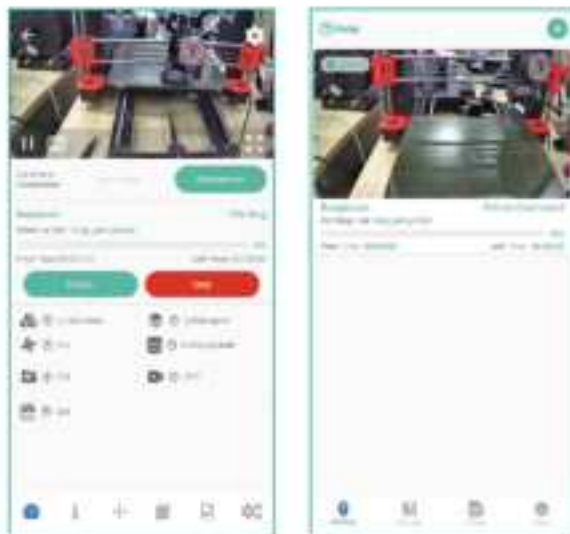
*For auto-leveling printers (such as the Ender3 S1, Anyubic Vyper, and Anyubic Kobra Max), you need to enable "First Layer Compensation" in the slicing software slice.

Cura slicer

Preferences->Printers->Machine Settings->Star Code->M420 S1(OR G28)

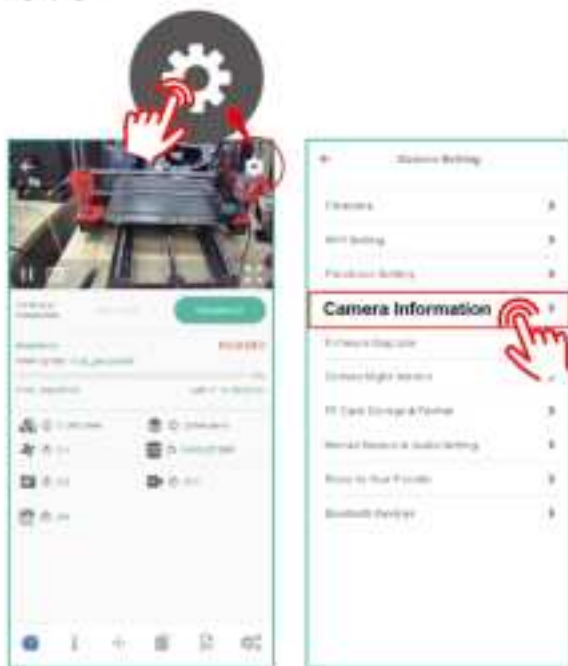


On the dashboard page or device page, you can monitor the progress of the printer's printing task and pause or stop the printing operation.



WEB PAGE FOR MARLIN PRINTERPAGE

In the Beagleprint app, click on Settings, find the IP address in the Camera Information page, and use a browser to enter it to access the login page.



Find the IP address

Enter IP address, Enter the password (default password is "admin") and click the confirm button to log in.

The Camera is connected to the same network (same subnet) as the computer/tablet/phone using the browser.

Once logged in successfully, you can connect to the printer via the "Connect" button in the upper left corner.

If it says "Connected", it means the camera has been connected to the printer.



Then, on the Dashboard page, find "Printable Files List", click "Connect", select the G-code file to be uploaded, and click the printer icon to start printing.

CUSTOMER SUPPORT

On the Dashboard page, find the "Status & Control" page, where you can monitor the printing progress, such as the number of layers and height, and pause or cancel printing as needed.



Please visit the Minton official website for more machine usage and maintenance tutorials



Join our Facebook group to communicate with us, our users, fans, and other members through Facebook



FB Group: Minton Official Group



If you need human assistance,
you can email: support@minton.net
and we will contact you within 24 hours.

ATTENTION

Please **DO NOT** cut off the power of the Beagle V2 camera when it's connecting to the 3d printer or printing; **DO NOT** disconnect the camera from the printer when it is connected to the printer and transmit gcode files through the camera for printing. Otherwise, it will cause printing failure and damage the camera's firmware. In this case, the camera cannot work typically; this problem is the user problem, not a quality problem. Hence, please ensure that you cannot disconnect the camera from the power supply and the USB cable connected to the printer when the camera is working, and the 3d printer is printing.

The Beagle camera only supports one printer connection for control, allowing four users to simultaneously log in and access the camera (including mobile phone and computer users). Therefore, please make sure it's securely accessing the device to prevent bad guys from accessing the camera or printer and the environment to cause damage.

At the same time, we recommend that you do not let the 3d printer perform the 3d printing work completely unattended. Please come to the printer and watch the real printing progress of the printer regularly to prevent further deterioration of the situation when an abnormal condition occurs.

This camera shortens the distance between the user and the printer. The user is obliged to ensure the reasonableness and legality of the use of the product and avoid infringement of third-party rights, including but not limited to publicity rights, intellectual property rights, data rights, or privacy rights. At the same time, since the customers' use and storage of this camera are beyond our control, we are not responsible for possible personal injury or property loss.

This manual is for reference only. In any case, we have the right to modify and improve it without notifying users. If you want to know the latest instruction manual, you can go to the official website for more information.

FCC WARNING STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: water or an experienced radio/TV technician for help.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.



SPECIFICATION

Model	Beagle V2
Video Compression	H.264/MJPEG
Video Resolution	1080P
Night Version	Yes
Frame Rate	Up to 25fps
Auto Time-lapse Video	Yes
WiFi Connectivity	Supports 2.4GHz/5GHz
Compatibility	Marlin & Klipper FDM 3D Printers
Connect to Printer	USB Cable
Files Storage	Micro SD Card
Power Source	Plug-in
Lens Adjustable	Manual Knob
1/4" Screw for Tripod	Yes