Cherry Home

GEN 2 BASIC CARE
User Guide

The Home AI that cares
for your loved ones.

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VVDN Technologies
VVDN is a technology innovation company providing broad spectrum of embedded design services and ODM capabilities of Networking, Wireless, IOT and Cameras. Headquartered in Gurgaon, India; VVDN combines a passion for client satisfaction, technology innovation, deep industry and business process expertise and a global, collaborative workforce, that embodies the future of work. Being an ISO certified ODM, our main focus is to provide qualitative embedded system solutions.

Corporate Office
B-22, Infocity 1 Sector-34,
Gurgaon-122001, Haryana, India
Tel No: +91 124 4284250

US Office
Suite# 307, 1735 North First Street,
San Jose, California, 95112

E-MAIL
info@vvdntech.com

WEBSITE
www.vvdntech.com

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1 About This Document

This document helps you to understand and operate the Cherry Gen2 Basic Care device.

1.1 Intended Audience

The intended audiences for this document are End Users of this product

1.2 Document Conventions

The different conventions used in this document are explained in the following table:

Document Conventions

Convention	Description
Note	Note provides information about important features or instructions. This appears with a background.

Table 1: Document Conventions

2 Overview

Cherry Gen2 Basic Care is the AI based IP Camera system, Its AI understands and analyzes what's going on at Camera and learns people's behaviors to detect accidents and send alerts to the family members and caregivers. Cherry Camera also boasts a unique approach to maintaining people's privacy, as its computer vision algorithms turn people on video into virtual skeletons while all of the information is processed on-device.

Key Features:

Smart Detection: Cherry Camera devices have advanced AI that can detect not just basic falls but also complex situations and anomalies, like when a person falls behind an obstacle, changes their gait abruptly, or goes to the bathroom and doesn't come back. The team developed a unique proprietary training system so Cherry Camera's AI only needs to see a particular concept one time to recognize it in every situation and from every angle.

Activity Tracking: Cherry Camera also can detect the person's activity and provide insights and recommendations based on changes in their behavior. It provides daily reports to family members and caregivers to ensure a safer and more independent life.

Privacy: All video footage is processed on the device and isn't uploaded to the cloud. The privacy setting replaces the person with a stick figure to give a basic understanding of what might have happened without intruding into anyone's life.

No Maintenance: There is no need to remember to wear and charge anything in order to stay safe, no need to press anything in case of an emergency, therefore — no accidental activation.

Better Lifestyle: Seniors that require constant monitoring and do not have money for 24/7 caregivers might end up in a nursing Camera, where they'd lose the comfort of having their own Camera. The safety provided by Cherry Camera allows these people to live as they're used to and preserve their privacy.

Figure 1: Cherry Gen2 Camera

3 Accessories

The following accessories are included with Cherry Camera:

Items	Description
	Power Adaptor - 5V@2.5A power supply adaptor with Micro-B plug

Table 2: Device Accessories

4 Getting Started

Learn about your Camera's hardware, assembly procedures, and how to get started using your new device.

4.1 Get to know Cherry Cam

Refer below image to understand each and every component of Cherry Camera. It will help user to better understand and implement all instructions given in this manual.

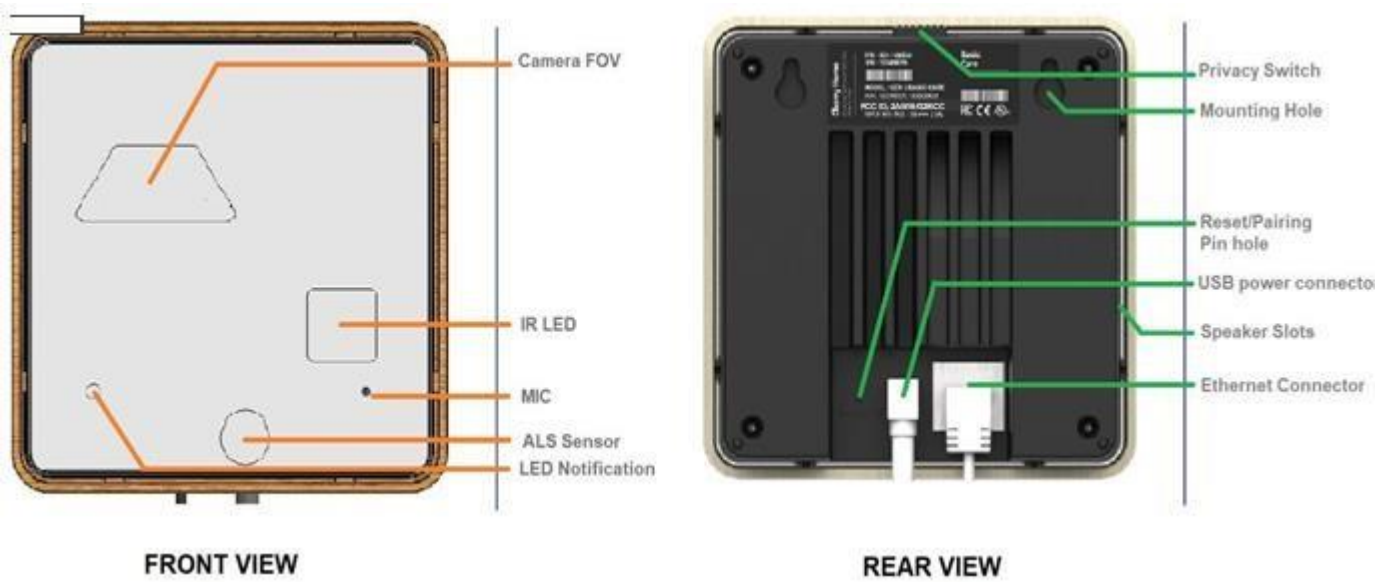


Figure 2: Cherry Cam Components

4.2 Cherry Notification LED Status

Cherry Notification LED Color	Indication	Duration
White Led Flashing(Faster rate)	Device is trying to connect in normal mode.	Until Connected.
Solid White light	Device connected successfully	10 Sec
Orange LED Flashing(Slower rate)	Pairing mode (Pairing going on)	Until done
Orange LED Flashing(Faster rate)	Device is having network error	Until reconnected
Blue LED flashing(Slower rate)	Device is in Ideal mode	Until pairing switch is pressed
Blue LED flashing(Faster rate)	Audio Playback	Until Audio Playback is going on
White LED flashing(Slower rate)	Device in firmware Upgrade mode	Until firmware upgrade
Orange flashing(Faster rate) and Solid white stable for 10 Seconds	When Ethernet connected or removed and get the IP address and Gateway IP	10 Sec

Table 3: Cherry Notification LED Status

4.3 Installation

The Cherry Cam can be mounted on the wall using two M3.5 screw as shown below. After installation, if cherry cam streams smoothly in RTSP streamer, then it is a good place for this device.

Note: Before mounting, kindly make sure to test if the desired installation location has good Wi-Fi reception.

Figure 3: Cherry Cam Installation Steps

1. **Ideal Installation Height**: Around head-height i.e. 1.82m/ 6ft from the ground.
2. **Mounting Screw Holes:** If mounting to a wooden surface, fix the screw directly to the surface. If mounting to masonry surface (bricks, concrete), insert wall plugs before screwing the wall.

   Notes: Use the Inclinometer to fix two screw for avoiding tilting of device.
3. **Wire Connection**: Plug the power adaptor to AC socket and connect the right angle micro USB plug back of the device, similarly connect the right angle RJ45, if Ethernet connection is required.

5 Video Streaming using VLC

5.1 Steps to pair Cherry cam and stream over VLC

Step1. Power on & boot the cherry camera

Connect the Cherry Camera to 5V power adapter and switch on the camera. BLUE LED will blink after successful booting. This is kept for indication that device is booted up successfully.

Step2. QR code validation & Scanning

Prerequisite:

Make sure the Room is well lit and Laptop screen has good brightness for better clarity.

Step-2.a: Prepare the QR code with following JSON structure, Add the respective/required values.

Example:

```
{
  "wifi_ssid": "TP-LINK_50AA",
  "wifi_security": "wpa-psk",
  "wifi_secret": "passkey123",
  "connect_url": "http://<Cherry_PC_IP>:<PORT>/",
  "rtsp_userid": "cherry",
  "rtsp_secret": "cherry123",
  "camera_name": "living"
  }
```

Wifi: You can change the Wi-Fi parameters and others parameters values as per requirement. Please copy the complete text including { to } (including the curly braces)

RTSP security :

"rtsp_userid": "cherry",

"rtsp_secret": "cherry123",

These two parameters are added for setting username and password for RTSP security. If user want disable the RTSP security, then he need to pass NULL in QR code:

Example:

"rtsp_userid": null,

"rtsp_secret": null,

Validate the JSON structure using the link *https://jsonlint.com/*

Note: Make sure the JSON is correct. Otherwise any random error might occur.

Step-2.b: Generate the QR code from *https://www.the-qrcode-generator.com/* and save it in your Laptop/PC.

Step-3: Press the PAIR/FC button of cherry camera for the 5-10 sec.

The cherry camera will go in pairing mode and Orange LED will start blinking till QR code is scanned successfully.

Pairing button is present at the back of the device.

Figure 4: Pairing and Reset

Step-4: Show the QR code to the cherry camera from your Laptop/PC.

White LED will start blinking while Wi-Fi connection is being established (till done). Solid white LED will lights up for 10seconds and cherry camera will reboot after wifi connection has been made successfully

Below is the setup shown for reference:

Make sure the QR code is big enough on the screen(Full screen)

- Make sure the Device is stable and facing the Laptop which has QR code, Find reference setup images below.

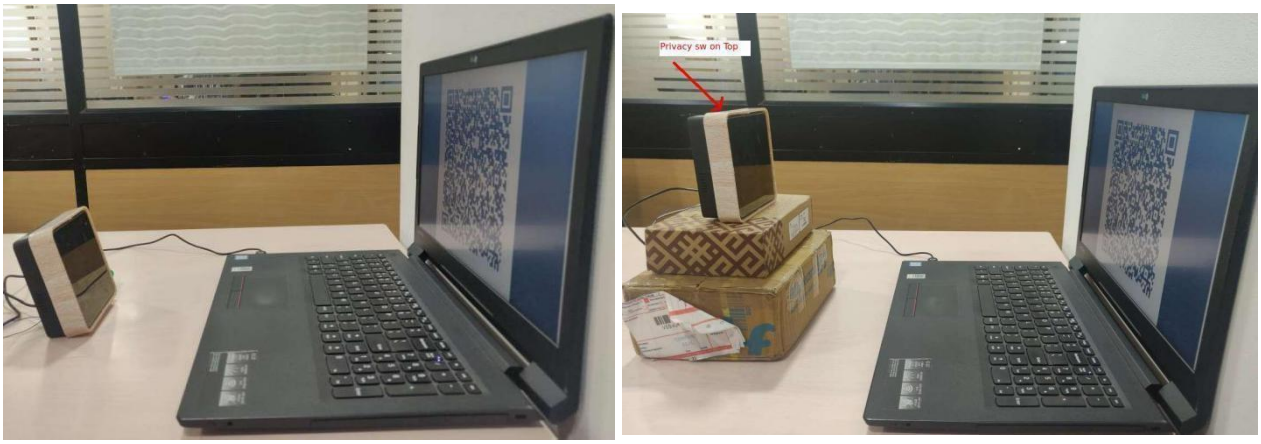
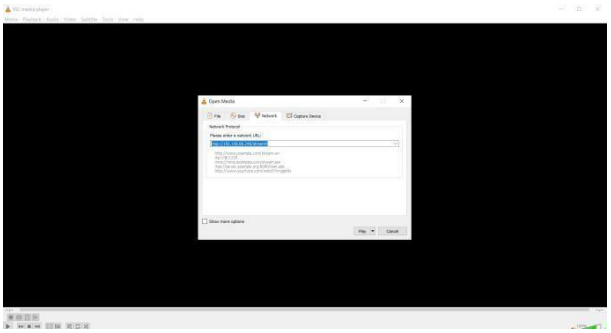


Figure 5: QR Code Scanning

Cherry camera will connect to router with the given SSID and Password in the QR code.

Step-5: Get the IP of the connected camera using the AP's GUI or by typing the ifconfig in the UART console of the device.

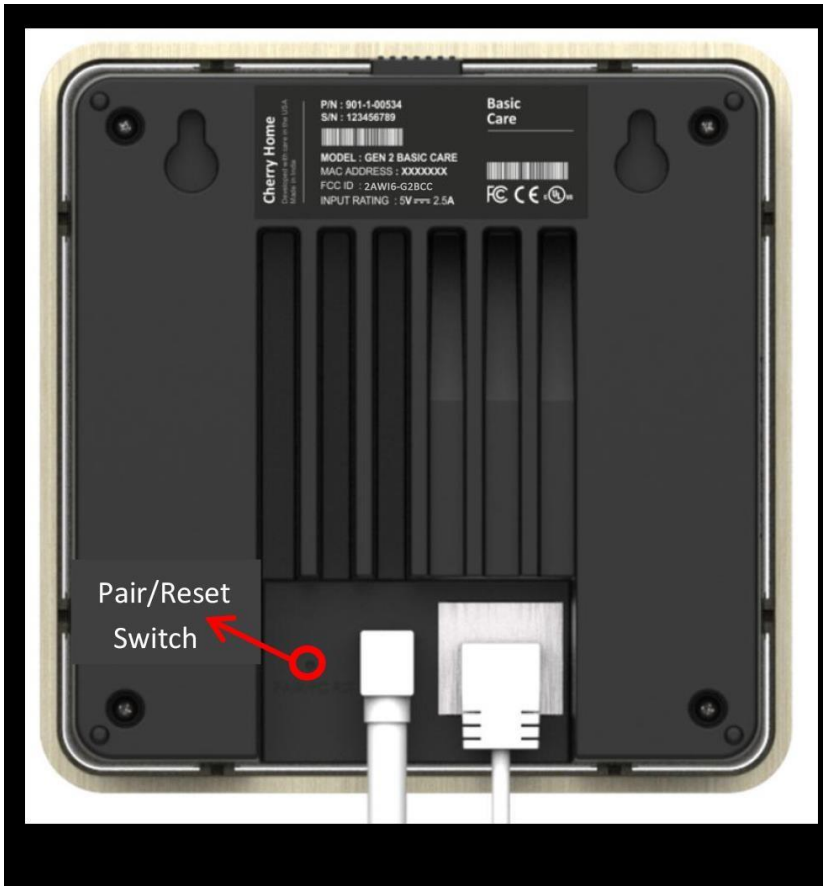
Step-6: Opening the RTSP Stream in VLC, Press control +N. Replace the Yellow highlighted with your IP of camera. e.g "rtsp://192.168.88.248/stream0"



Please provide the "rtsp_userid" and "rtsp_secret" which used for JSON QR code reation, I.e

"rtsp_userid": "cherry", "rtsp_secret": "cherry123".

6 Product Functional Features



FCC INFORMATION

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

1. This transmitter must not be co- located or operating in conjunction with any other antenna or transmitter .
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance which states in DoC between the radiator and your body.

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

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

This equipment has been verified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user’s authority to operate this equipment.

Changes or modifications to this equipment not expressively approved by the party responsible for compliance, or operation of this product in any way other than as detailed
to by the User Manual could void the user's authority to operate this equipment.
To insure the safety of many users, the FCC has established criteria for the amount of radio frequency energy various products may produce depending on their intended use.
This product complies with FCC radiation exposure limits under the following conditions:

- The base must be placed to allow a minimum of 20 cm (8 inches) between the antenna and all persons during normal operation.
- **This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.**
- The base must not be collocated or operated in conjunction with any other antenna or transmitter.