

# SmartCam Web Preview User Manual

Document Version: v1.5

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## Document Version(s)

Revision	Date	Description	Author
V1.0	2022.05.17	Version 1	Ming Miin
V1.1	2022.06.09	Revised Version: - updated guide for latest Chrome version (101)	Ming Miin
V1.2	2022.06.28	Revised Version: - updated with script to install SmartCam Web Preview if it is not installed by default	Ming Miin
V1.3	2022.07.19	Revised Version: - Along with the new version release, remove chrome extension configuration as a prerequisite	Ming Miin
V1.4	2022.07.20	Revised Version: - Change in styling and sections breakdown. - Added guide on updating software	Ming Miin
V1.5	2022.07.22	Revised Version: - Added hardware dependencies	Ming Miin

## About SmartCam Web Preview

**SmartCam Web Preview** is a web application that captures video feed from SmartCow cameras and displays the live video stream on any compatible web browser. The application is preinstalled on all SmartCow cameras and is available to all SmartCow users.

You can use this application to preview the captured video feed and adjust the camera's position and angle as needed. To use this application, you must first discover SmartCow Cameras within your local area network using the **SmartCow Discovery Tool** ([See Section 1.0](#)).

## Hardware dependencies

When choosing to power SmartCam through POE, please make sure that the power supply of the POE switch selected is at least 30W and in compliance with IEEE 802.23at (POE+) standard.



## Prerequisites

- Please make sure that SmartCam is connected to the Internet via a discoverable public IP address and within the same network as the Discovery Tool and the SmartCow Web Preview.
- Supported operating systems for **SmartCow Discovery Tool**:  
Windows 10 and 11, and Ubuntu 18.04 AMD64 machines
- Supported browsers for **SmartCam Web Preview App**:  
Google Chrome

## 1.0 Downloading SmartCow Discovery Tool

To use the SmartCam Web Preview application, you must first discover SmartCow Cameras within your local area network using the **SmartCow Discovery Tool**.

From the table below, You can download the tool based on the operating system you are running.

Version	Available downloads	
0.0.1	<a href="#">Free Download</a> 	<a href="#">Free Download</a> 

### 1.1 Installing and configuring the tool on Ubuntu

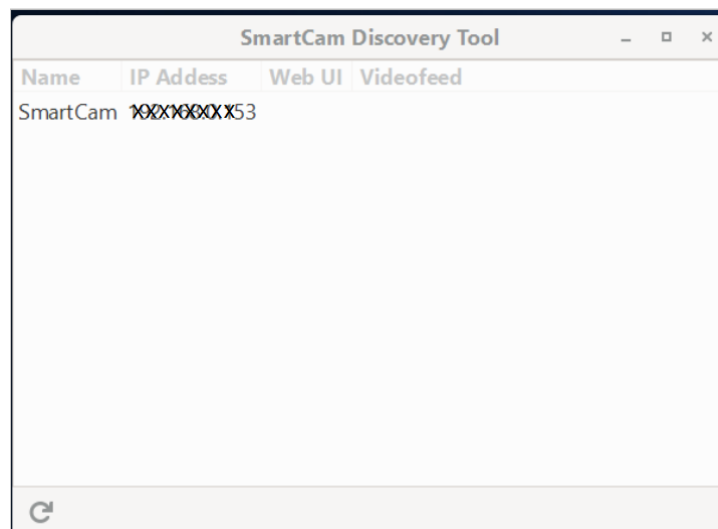
1. To install the smartcam-discovery package, run the following command.

```
sudo apt install [path/to/.deb file]
```

For example:

```
sudo apt install smartcam-discovery_0.0.1-bionic_amd64.deb
```

2. Run the Smart Discovery tool on your computer to get a list of cameras on your local network. You can view the camera's name and IP address as shown in the following figure.

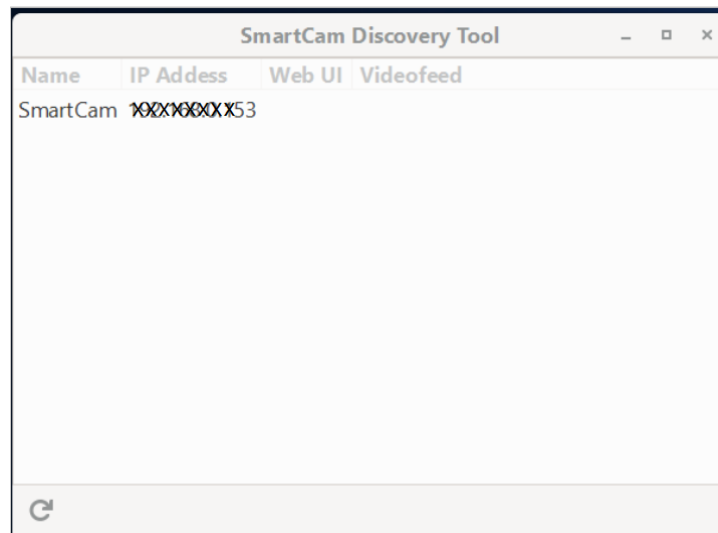


## 1.2 Installing and configuring the tool on Windows

1. Extract **SmartCamDiscoveryInstaller.exe** from the downloaded ZIP file.
2. Run the installer. By default, a desktop shortcut is created, and the system prompts you for firewall access during the first time you launch the tool. You can use the tool for discovery after allowing firewall access.

**Note:** If you are prompted with a warning window, select **More Info** and click on **Run Anyway**, and then proceed with the rest of the installation steps.

3. Run the Smart Discovery tool on your computer to get a list of cameras on your local network. You can view the camera's name and IP address as shown in the following figure.



## 2.0 Running Web Preview App on SmartCam

1. To ssh into your SmartCam, use the discovered IP address and then run the following command.

```
ssh nvidia@192.168.xxx.xxx  
default password: nvidia
```

2. To launch the Web Preview App on your SmartCam, run the following command.

```
smartcam-web-preview
```

3. If the application is not installed and the command above failed to run, please reach out to the SmartCow team for the credentials to download the application from the apt repository.

```
user=xxxx  
password=xxxxxxxxx  
  
sudo apt update  
sudo apt install -y curl ca-certificates  
  
curl -sLf "https://$user:$password@smartcow.io/apt/gpg.key" | sudo apt-key  
add -  
  
echo "deb https://smartcow.io/apt/repo/smartcam-web-preview-dev $(grep  
'^DISTRIB_CODENAME=' /etc/lsb-release | cut -f2 -d=) multiverse" | sudo tee  
-a /etc/apt/sources.list.d/smartcow-repo.list  
  
echo "machine smartcow.io login $user password $password" | sudo tee -a  
/etc/apt/auth.conf.d/smartcow-repo.conf>/dev/null  
  
sudo apt update  
sudo apt install -y smartcam-web-preview
```

4. When the application is running, type the IP address with port number :8080 on your browser to check the camera feed preview.

## 3.0 Updating Web Preview App to new version

To run the new version of Web Preview App, please run the following commands.

```
sudo apt-get install --only-upgrade smartcam-web-preview
```

Please refer to the release note provided to you by the SmartCow team for the updated details in the new version.

## Troubleshooting and contact information

- If you are unable to discover any cameras after running the discovery tool, check that firewall access is enabled and that the cameras are installed on the same network as your computer.
- If you encounter any issue after running the web preview from Google Chrome (for example, preview not available, invalid webpage), run the application in debug mode using the following commands and forward the logs to the SmartCow personnel whom you are liaising with.

```
export GST_DEBUG="*:3"  
smartcam-web-preview --verbose --debug
```