

Ucam Plus App

Android WiFi

User Manual

Ver 1.2

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Chapter 1: System Requirement & Software


1.1 Hardware Requirement

Android smart mobile phone, or Android Tablet series.

1.2 Operational System Requirement

Android 3.0 or higher.

1.3 Software Installation

Step 1: Install Ucam Plus  app for Android from the supplied CD or download and install app for Android in Google Play.

Step 2: After installation, the following icon will appear in your Android menu interface.



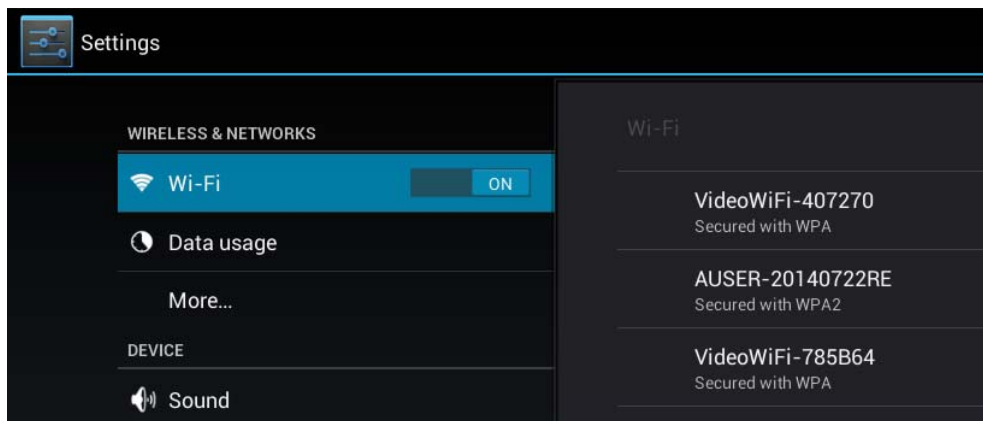
Chapter 2: WIFI Connection

***** The WiFi microscope cameras have their own wireless network. They work independently of local WiFi networks. They can be configured to work on your local network, but they work best on the camera WiFi.**

***** You may need to try establishing the connection a few times before establishing a successful connection. Simply repeat the WiFi connection instructions until successful.**

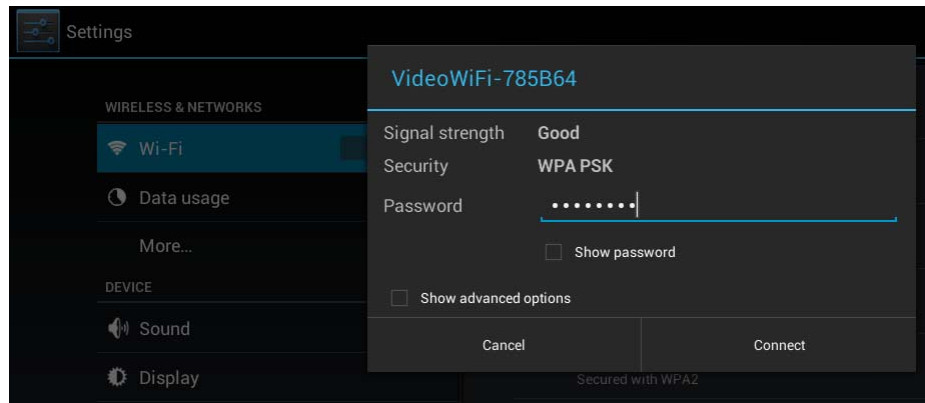
Step 1: Turn the work mode switch on your WiFi camera to WiFi work mode. Wait for about 20 seconds until the green WiFi indicator light flashes.

Step 2: Ensure your WiFi is turned on in your Android device



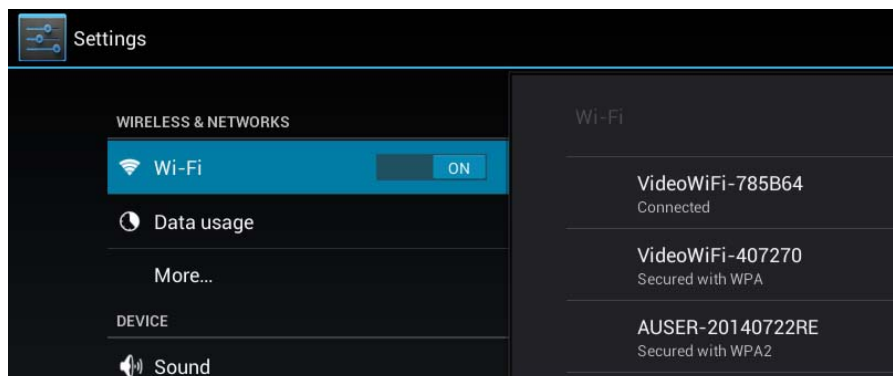
Note: **The original WiFi name of WiFi camera is VideoWiFi-xxxxxx.** Xxxxxx is the internal identification number and differs in each camera model. You can change the WiFi network name. See 4.2.2. below.

Step 3: Enter connection code and process connection.




Note: The factory default WiFi password is **12345678**. You can change the WiFi password. See 4.2.2. below.


Step 4: Click connection and wait for a few seconds. When “connected” appears, Android device has been successfully connected to WiFi camera.




Step 5: After successful WiFi connection, exit the setup page and return to the main menu.

Click icon  on your desktop to process WiFi Macro Camera software and enter into the below interface.







Step 6: After entering the interface, click image preview function button  for the preview screen to appear.

Chapter 3: Operating Instructions

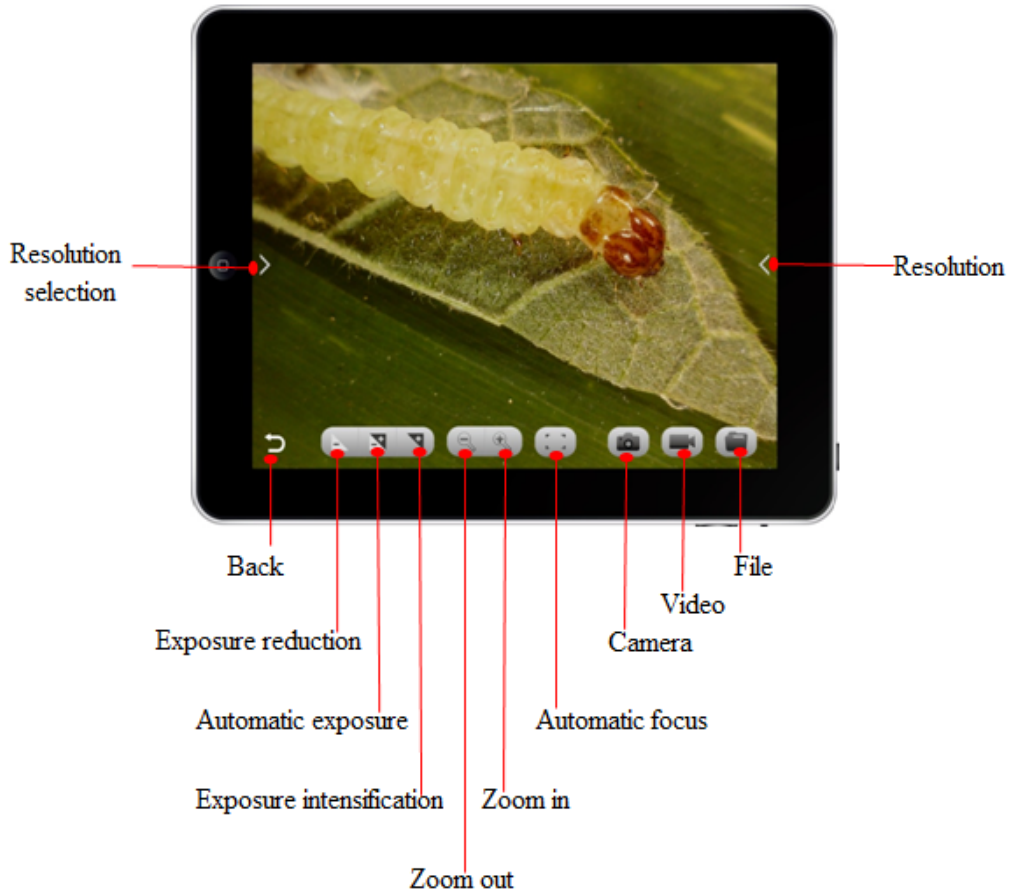
Click icon  on system desktop to display the following interface.



1.  Preview: click to enter WiFi camera image preview interface.
2.  Parameter setup: set parameters relevant to camera.
3.  File: check photographs and video files.
4.  Help: refer to software instruction help.



3.1 Preview









Preview screen is as follows:



3.1.1 Function menu

Touch the screen to display the function menu. Touch again to hide the function menu.

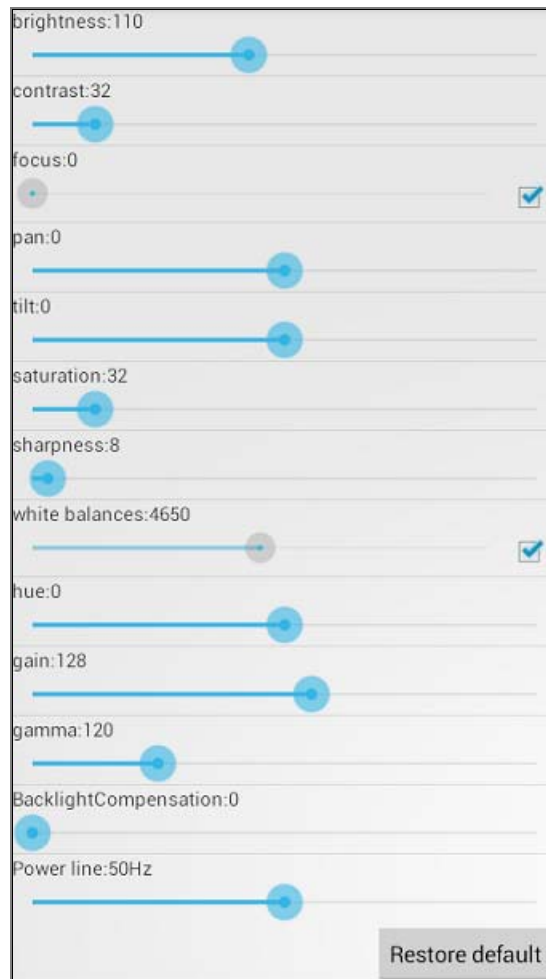
- | | | | |
|--------------------|---|---|--|
| Back | : |  | Return to the previous page. |
| Exposure reduction | : |  | Reduces exposure when the preview screen is too bright or when viewing a darker screen. Requires manual exposure mode below. |

Automatic/Manual exposure	: 	Automatic/manual exposure switch button.
Exposure intensification	: 	Intensifies exposure. Requires manual exposure mode.
Zoom out	: 	Zoom out is divided into 6 degrees with 1 degree minimum.
Zoom in	: 	Zoom is divided into 6 degrees. Available for lower resolutions only: 640x480, 800x600. 1024x768. 1280x720
Automatic focus	: 	Automatic focus button. (selected models only)
Camera	: 	Capture current preview image and save it to the specified file folder.
Video	: 	Record video button.
View files	: 	View photo and video files.

3.1.2 Parameter Adjustment Menu

Click ">" on the left side of the screen to display the camera settings. Click "<" or the middle screen to hide parameter adjustment menu.

All the camera settings have been optimized by the factory. However, you can adjust them, as required: Click "Restore to Default" at any time to reset to the factory settings.

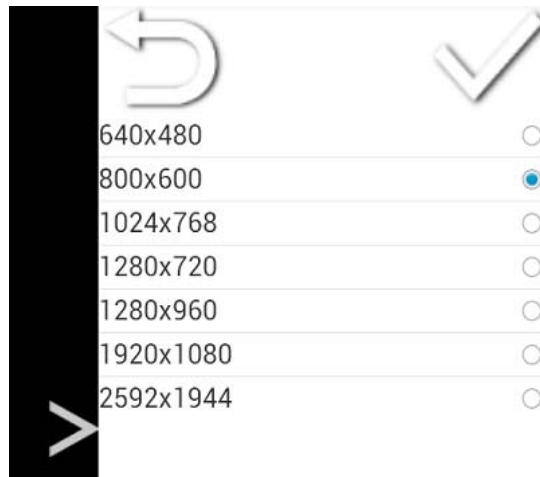


- Brightness : Adjust the brightness of your images.
- Contrast : Adjusts image contrast
- Focus : Auto focus button although we recommend using the microscope. (Selected models only)
- Full Screen : Enables full screen preview.
- Tilt : Moves the image up and down.
- Saturation : Adjusts the image saturation
- Sharpness : Adjusts the image sharpness. When over adjusted, it will increase the noise ratio.
- Auto White Balance : Auto white balance when checked.
- Hue : Adjusts the hue.
- Gain : Adjusts the gain.
- Gamma : Adjust the gamma.
- Backlight contrast : Adjusts image contrast

- Power line : Adjust power supply frequency. Required if you see stripes or little ripples.
- Reset to factory defaults : Restore to original factory default settings.

3.1.3 Resolution Selection Menu

Click "<" on the right side of the screen to pop up resolution selection menu. Click ">" or the middle of the screen to hide resolution selection menu. You can adjust resolution from the factory default 800x600. Click "set resolution" to display the below screen. Slide up and down to change resolution. After selection, click to confirm your choice.



After selecting a resolution, wait 10 seconds for the change to become effective. You can connect up to ten Android or iOS devices as per the following chart:

Number	Resolution	The max connection number
1	640x480	10
2	800x600	8
3	1024x768	8
4	1280x720	8
5	1280x960	7
6	1920x1080	5
7	2592x1944	3

3.2 Setup


3.2.1 AP Client Mode Setup

Special instruction:

The AP client mode needs connecting to a wireless router, so you must know in advance the required wireless router's name and password.

1. Encryption must be WEP, WPA-PSK or WPA2-PSK.
2. Wireless DHCP must be enabled and IP addresses available.
3. Under AP client mode, image will first be transmit to wireless router and then to Android device. Therefore, it needs twice the image transmission bandwidth than wireless router. Under this mode, image transmission speed is slower than that under AP mode.
4. Image transmission requires significantly greater bandwidth. As a result, AP client mode works less well with multiple devices.

Setup steps are as follows

Step 1: click setup function button  under the homepage and enter setup page shown as below.

Mode Setting
AP/STA Mode Setting
wifi Data Modity
SSID/PSK Modity
Restore default

Step 2: select AP/AP client mode setup. After entering the below image, select AP client mode.

<p>Current mode:AP Mode</p> <p>The IP of current Device:</p> <p>NOTE: Searching, Please do not return</p>
AP Mode
AP Client Mode
Found and Linked
Back

Step 3: After entering AP client mode, the software will locate your WiFi router. Select the router you need to connect or enter the needed router name and enter the password. Then click "Confirm" to enter the below image (shown as below).

Please choose Router SSID

VideoWiFi-407270

VideoWiFi-407270

Please input Router KEY

OK Cancel

Finding SSID

Please choose Router SSID

VideoWiFi-407270

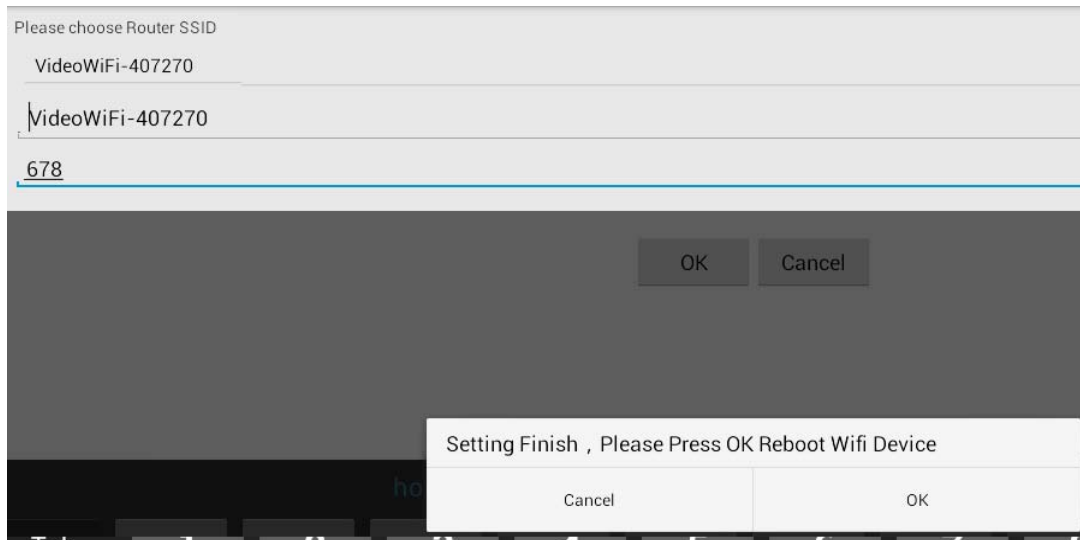
VideoWiFi-407270

678

OK Cancel

Current mode: AP mode


Step 4: After clicking OK, the following interface will appear. Select OK and enter switching AP client.

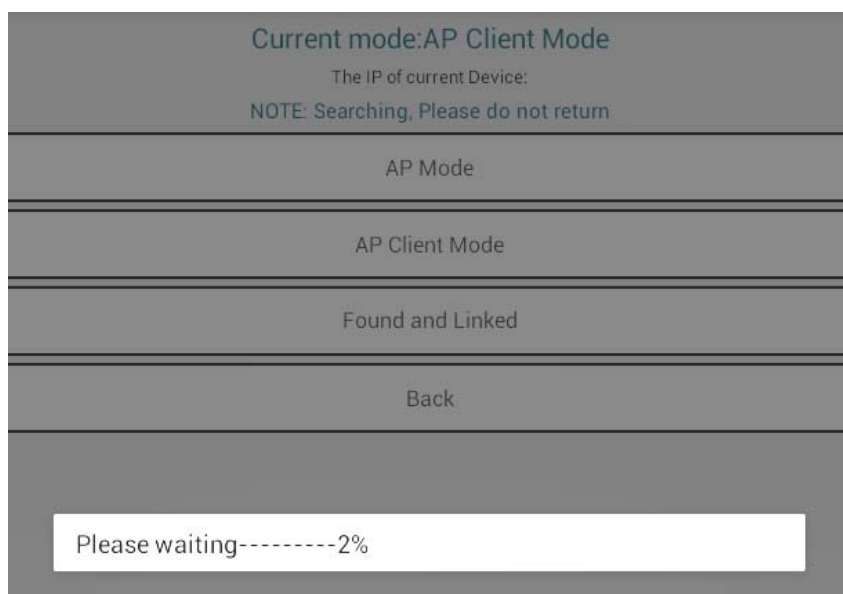


Please click OK to restart WiFi camera

Step 5: The device will start again automatically. Exit the software until WiFi indicator of the WiFi camera flashes.

Step 6: Open Android device, click setup  to enter WiFi setup interface, select and connect the above wireless router.


Step 7: After “connected” displays, process WiFi Macro Camera software again. Enter the interface, select  to enter AP/AP client mode setup and select “find device”.



Note: Depending on the signal strength of router and the number of connected devices, the connection time may take 2 to 200 seconds. Sometimes, the WiFi camera may not be found.

<p>Current mode:AP Client Mode</p> <p>The IP of current Device:192.168.0.107</p> <p>NOTE: Searching, Please do not return</p>
AP Mode
AP Client Mode
Found and Linked
Back

Successfully found
WiFi camera is available!

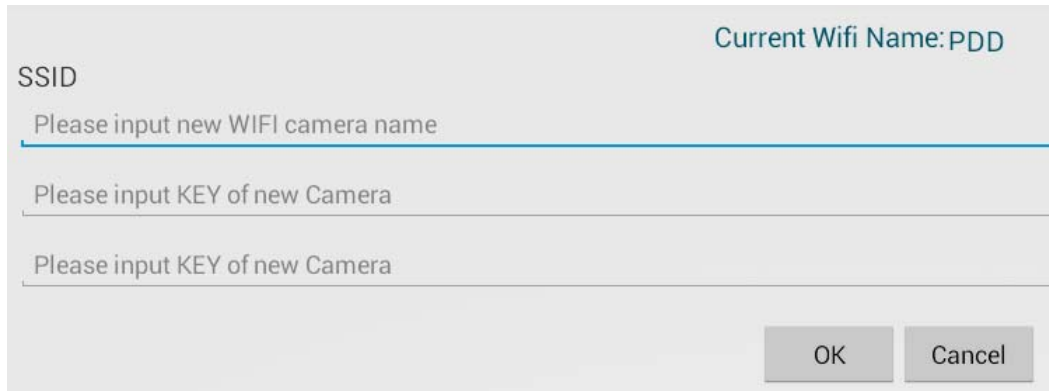
Step 8: After identifying the IP, return the main menu, click camera icon  and wait for a few seconds for the preview screen.

3.2.2 Modify WiFi camera SSID/PSK

Step 1: Enter the main interface, click icon  and enter the setup interface, shown as below.

Mode Setting
AP/STA Mode Setting
wifi Data Modity
SSID/PSK Modity
Restore default

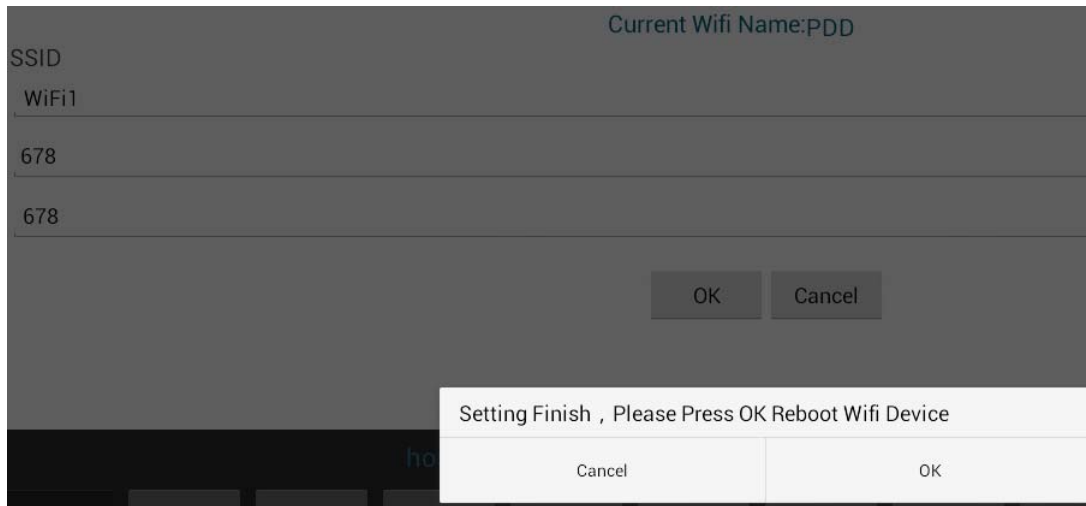
Step 2: Select “modify WiFi camera SSID/PSK” to enter modification interface. Enter the modified WiFi name in “SSID”.



Step 3: Please enter WiFi original code in “WPAPSK”. The factory default code is 12345678. The third and fourth lines are the newly set code and the two codes must be same. After editing, click “OK” and the software shows “restart WiFi camera” to complete modification.



Step 4: After setting user name, original password and new password, click OK button. Displays process “setting”. Changes are successful (If it prompts “current WiFi code is not entered correctly and please enter again”, please check the password and enter it again.)

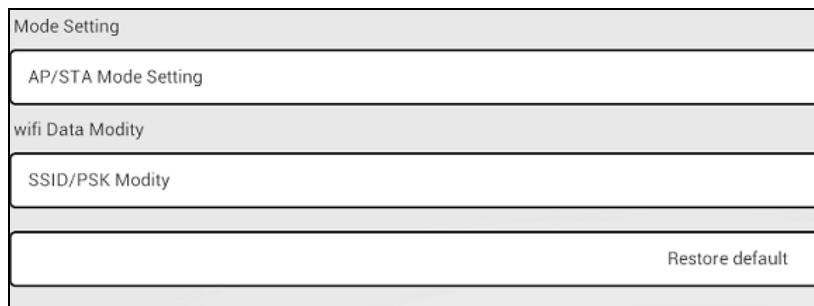


Setting , SSID/PSK is set successfully, Please connect WiFi camera!

Step 5: Exit the software, go to the ANDROID device wireless local area network and connect the camera. The camera name is the newly modified WiFi name and the password is the modified one. Reenter the software to use by new WiFi name.

3.2.3 Restore All Setup

Resets all settings to factory defaults.



3.3 Image and Video File Browsing

Go to the main menu and select  to see your photos and videos.



3.4 Refer to Help

In the main menu, click help button  to check App instruction manual, App version and firmware version.