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## How to Upgrade CAM6351 to Version fr20130223NSA

Application Notes

Version <1.0>



Technical Support Team

## 1 Preface

This document will instruct user to upgrade CAM6351 firmware from version **fr20121220NSA** to **fr20130223NSA**.

The CAM6351 upgrade package includes below two folders and two .bin files. Each folder contains a firmware file name as `ulmage_userland`.

- Folder
  - `fr20130223NSA`
  - `transition254to310`
- Bin file
  - `main_M05D_2D2D.bin`
  - `switch_SP2D_4838.bin`

The CAM6351 need to hardware reset during upgrade process then camera IP address will return to **192.168.0.250**. To prevent IP collision we recommend upgrade one camera at one time if user has multiple CAM6351.

Generally, all software versions are same as below before upgrading the firmware. Please follow below list to determine which firmware to use and how to apply the firmware.

Software version	fr20121220NSA
Switch version	SP1D-CFAF
Main version	M02D-5853
Module version	CC114

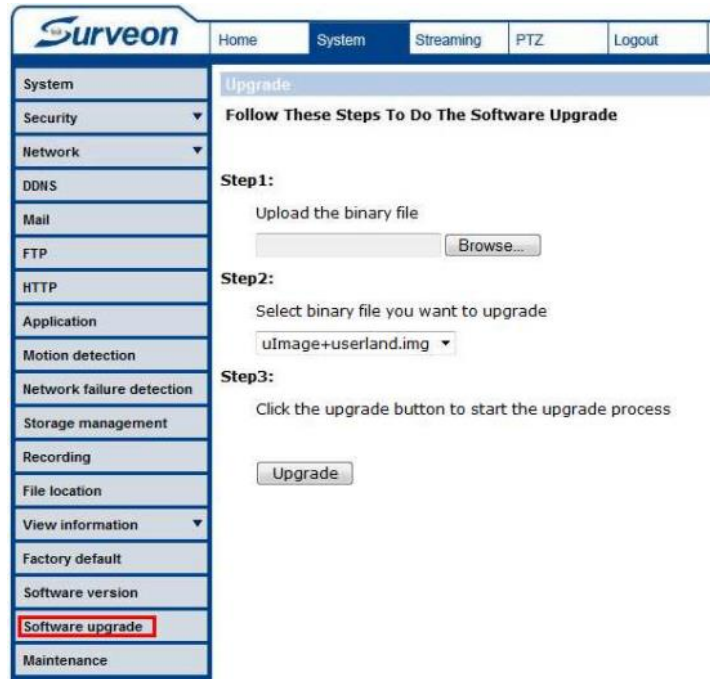
## 2 Upgrade software version

2.1 Upgrade firmware "**ulmage\_userland**" which in "**transition254to310**" folder.

2.1.1 Access CAM6351 via IE6 or above version.

2.1.1.1 IP address: 192.168.0.250

2.1.2 Go to System/Software upgrade.

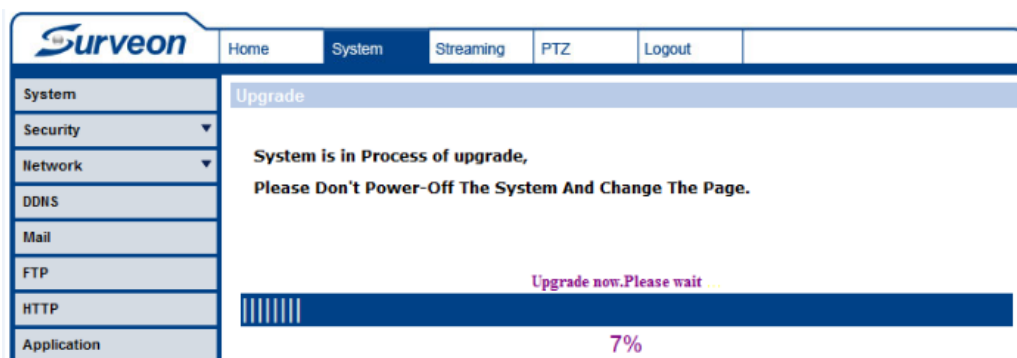


2.1.3 On **step 1**, click “Browse...” button then go to “**fr20130223NSA upgrade package\transition254to310**”.

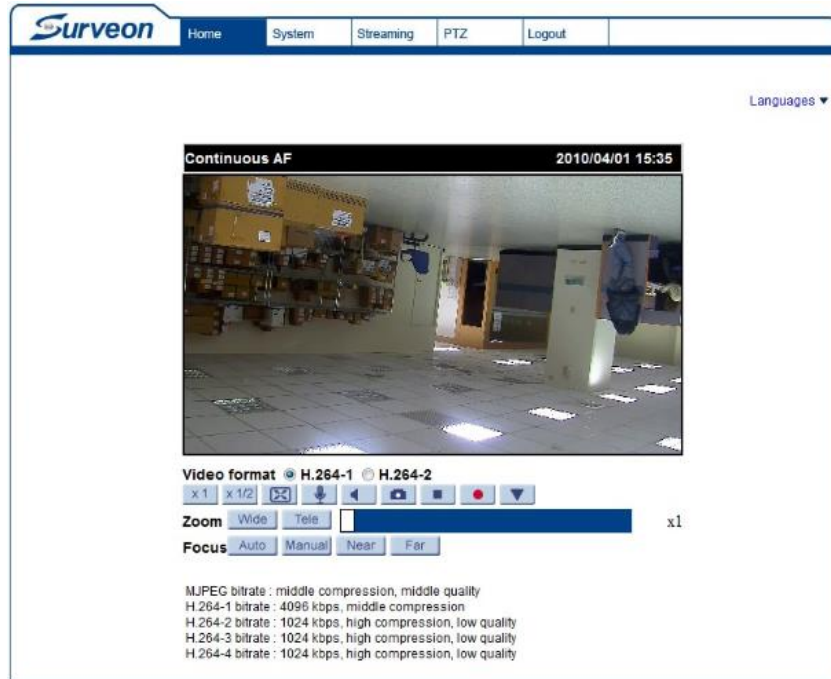
2.1.4 Choose the firmware “**ulmage\_userland**”.

2.1.5 On **step 2**, choose “**ulmage + userland.img**”.

2.1.6 On **step 3**, click “Upgrade” button to start to upgrade.



2.1.7 After upgrade is finished, the panel will return to “**Home**”.



2.1.8 Press reset button for 5 second at the bottom of CAM6351 to reset camera to default.

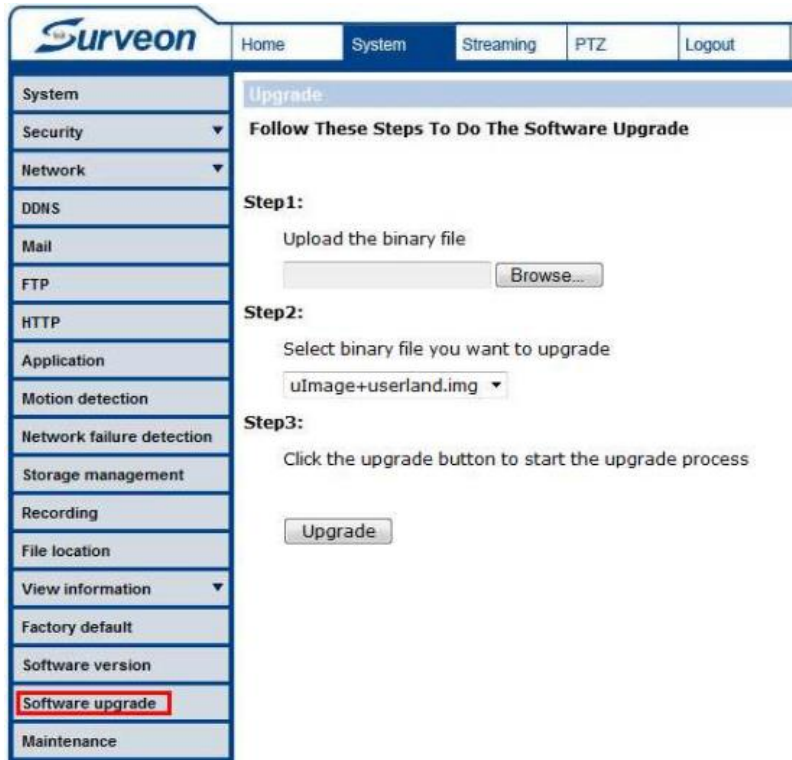


2.2 Upgrade firmware “ulmage\_userland” which in “fr20130223NSA” folder.

2.2.1 Access CAM6351 via IE6 or above version.

2.2.1.1 IP address: 192.168.0.250

2.2.2 Go to System/Software upgrade.

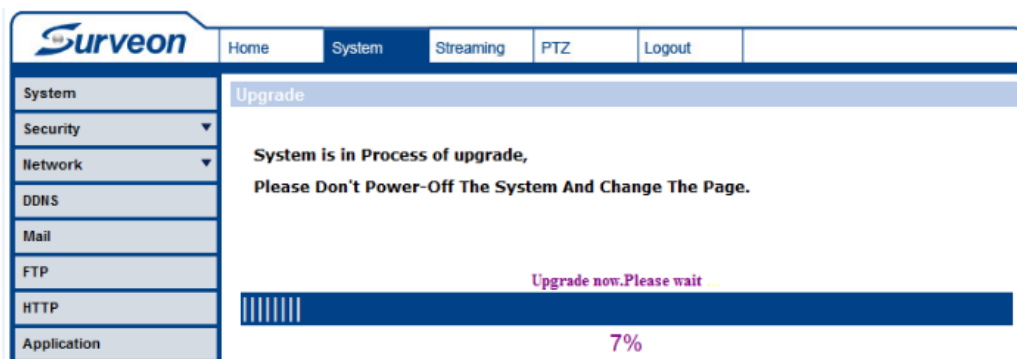


2.2.3 On **step 1**, click “Browse...” button then go to “**fr20130223NSA upgrade package\fr20130223NSA**”.

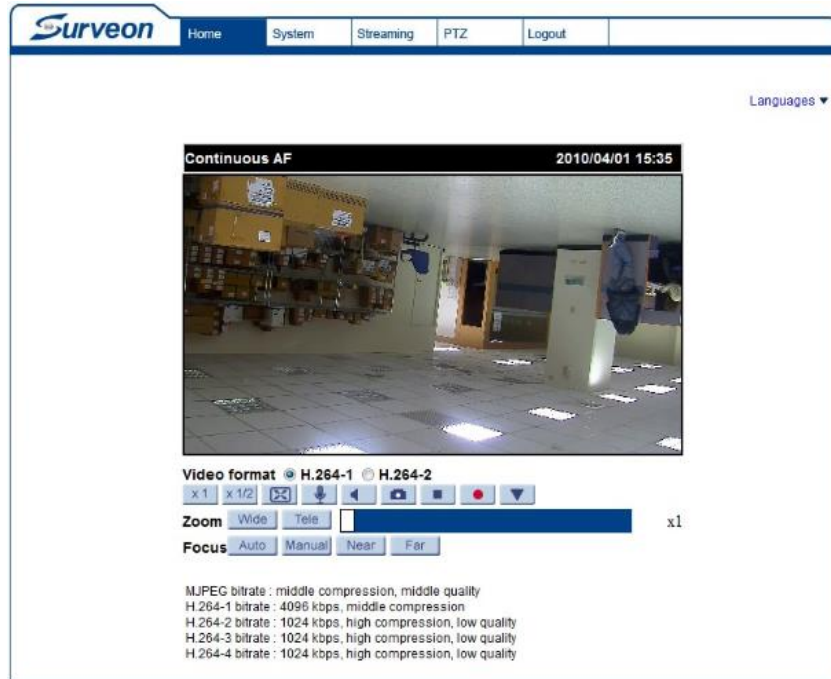
2.2.4 Choose the firmware “**uImage\_userland**”.

2.2.5 On **step 2**, choose “**uImage + userland.img**”.

2.2.6 On **step 3**, click “Upgrade” button to start to upgrade.



2.2.7 After upgrade is finished, the panel will return to “**Home**”.

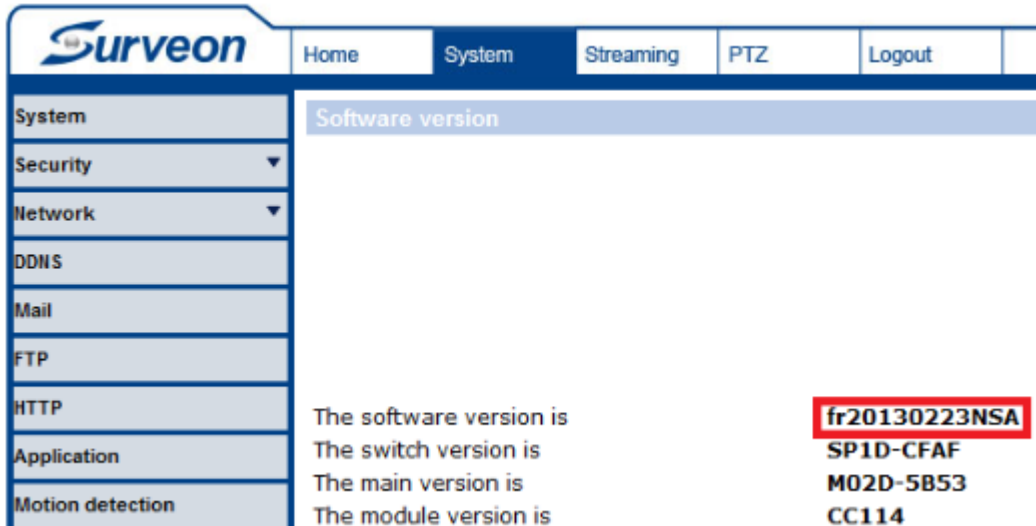


2.2.8 Press reset button for 5 second at the bottom of CAM6351 to reset camera to default.



2.3 Go to System/Software version.

2.4 Check the software version is changed to **fr20130223NSA**.



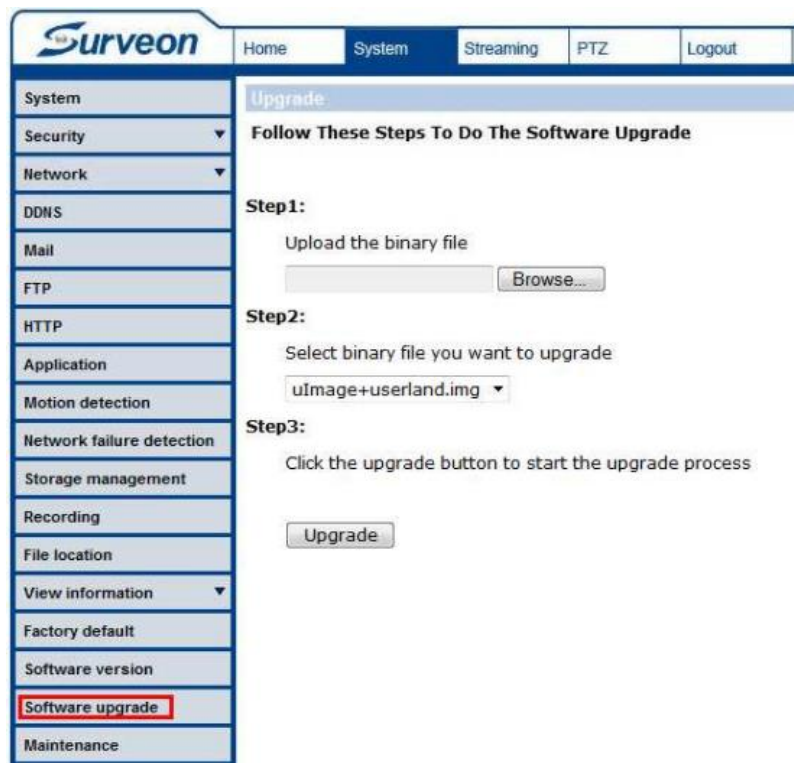
2.5 User then can go to **“3. Upgrade switch version”** to upgrade switch to latest version.

### 3 Upgrade switch version

3.1 Access CAM6351 via IE6 or above version.

3.1.1 IP address: 192.168.0.250

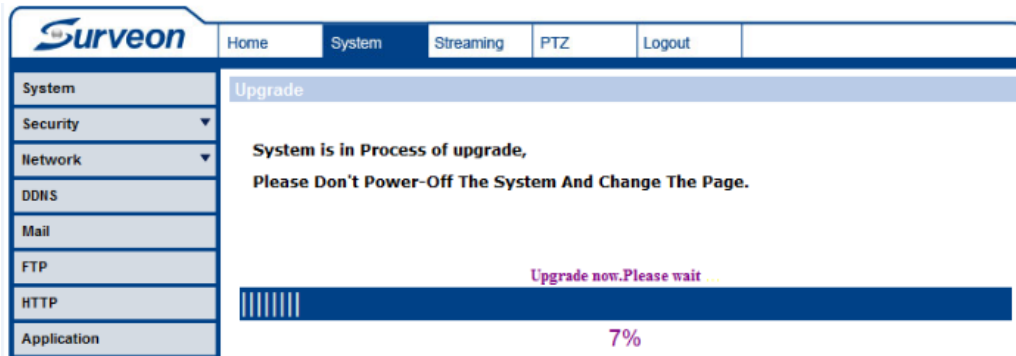
3.2 Go to System/Software upgrade.



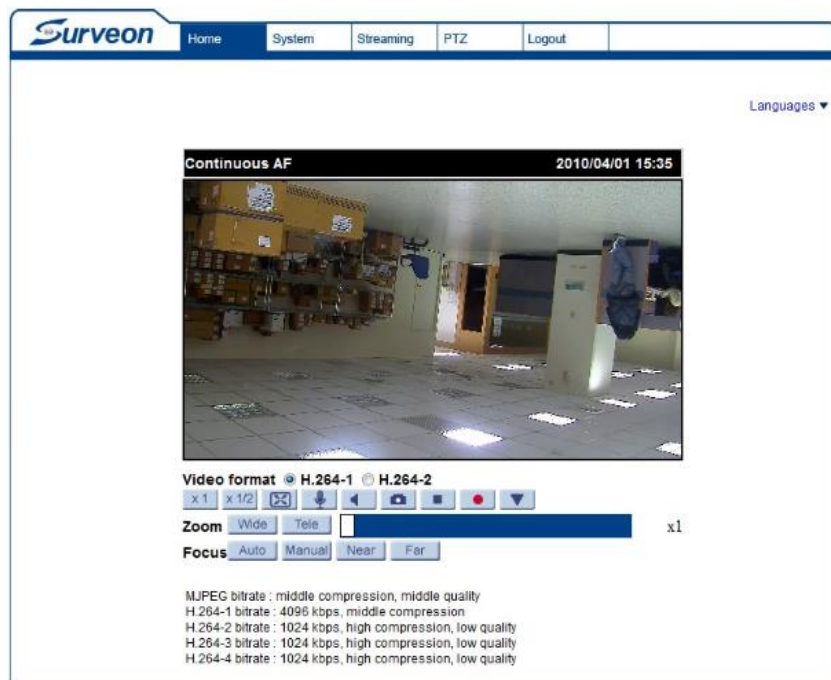
3.3 On **step 1**, click “Browse...” button then go to **“fr20130223NSA upgrade**

package” folder.

- 3.4 Choose the firmware “switch\_SP2D\_4838.bin”.
- 3.5 On **step 2**, choose “switch.bin”.
- 3.6 On **step 3**, click “Upgrade” button to start to upgrade.



- 3.7 After upgrade is finished, the panel will return to “Home”.



- 3.8 Go to System/Software version.
- 3.9 Check the switch version is changed to **SP2D-4838**.



The screenshot shows the Surveon web interface. The top navigation bar includes Home, System, Streaming, PTZ, and Logout. The left sidebar menu is expanded to the System section, which includes options like Security, Network, DDNS, Mail, FTP, HTTP, Application, and Motion detection. The main content area displays the 'Software version' page with the following text:

The software version is **fr20130223NSA**  
 The switch version is **SP2D-4838**  
 The main version is **M05D-2D2D**  
 The module version is **CC114**

3.10 User then can go **“4. Upgrade main version”** to upgrade main to latest version.

#### 4 Upgrade main version

4.1 Go to System/Software upgrade.

The screenshot shows the Surveon web interface with the System menu expanded to the Software upgrade page. The page title is 'Upgrade' and it contains the following instructions:

**Follow These Steps To Do The Software Upgrade**

**Step1:**  
 Upload the binary file

**Step2:**  
 Select binary file you want to upgrade

**Step3:**  
 Click the upgrade button to start the upgrade process

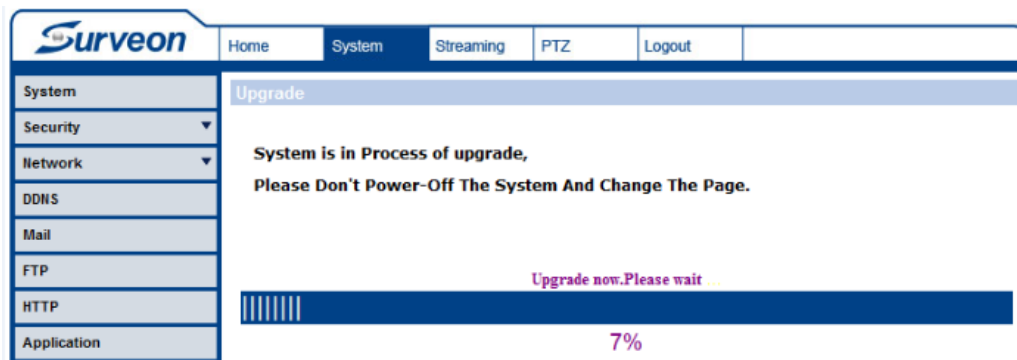
The 'Software upgrade' option in the left sidebar menu is highlighted with a red box.

4.2 On **step 1**, click “Browse...” button then go to **“fr20130223NSA upgrade package”** folder.

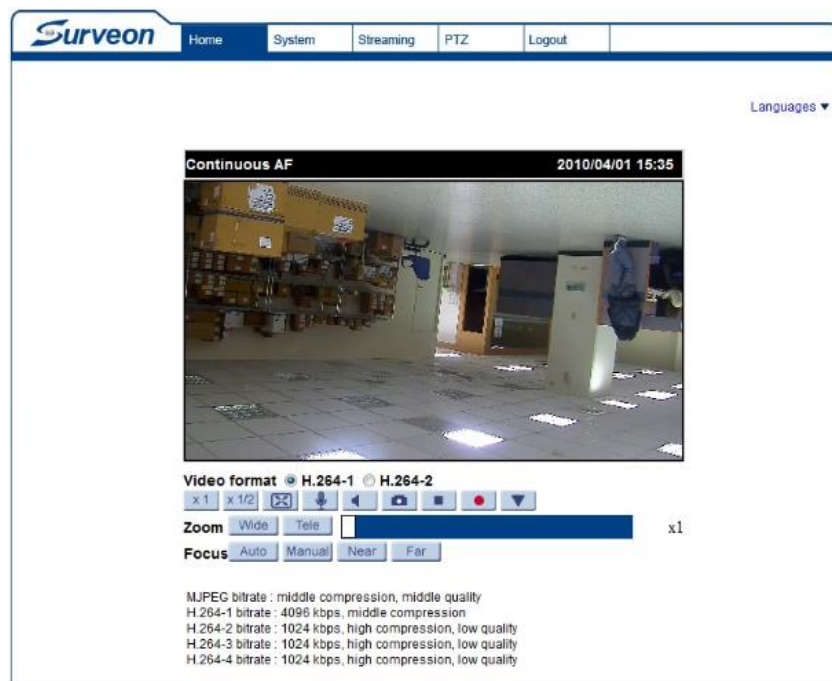
4.3 Choose the firmware **“main\_M05D\_2D2D.bin”**.

4.4 On **step 2**, choose **“main.bin”**.

4.5 On **step 3**, click “Upgrade” button to start to upgrade.



4.6 After upgrade is finished, the panel will return to “Home”.



4.7 Go to System/Software version.

4.8 Check the main version is changed to **M05D-2D2D**.

The screenshot shows the Surveon web interface. At the top, there is a navigation bar with the Surveon logo and menu items: Home, System, Streaming, PTZ, and Logout. On the left, a sidebar menu is open, showing options like System, Security, Network, DDNS, Mail, FTP, HTTP, Application, and Motion detection. The main content area is titled 'Software version' and displays the following information:

- The software version is **fr20130223NSA**
- The switch version is **SP2D-4838**
- The main version is **M05D-2D2D** (highlighted with a red box)
- The module version is **CC114**

4.9 Please check all software version are same as below after upgrading the firmware.

Software version	<b>fr20130223NSA</b>
Switch version	<b>SP2D-4838</b>
Main version	<b>M05D-2D2D</b>
Module version	CC114