



Until recently the Fish Eye cameras did not have a SUB STREAM, which made it difficult for the NVRs to display them in a multi view environment (often a NO RESOURCE message would come up) as well as streaming Fish Eye cameras required more bandwidth. With the most recent firmware revision **v5.0.9** a sub stream has been added to some of the working modes of the camera.

The Fish Eye cameras have multiple working modes:

- With firmware prior to **v5.0.9** those are:
  - a. Real Time Mode ENABLED
  - b. Real Time Mode DISABLED
  
- With the latest firmware **v5.0.9** those modes are:
  - a. Mode 1
  - b. Mode 2
  - c. Mode 3
  - d. Mode 4

**Table 1** describes the modes of the firmware prior to **v5.0.9**

MODE	STREAMS	RESOLUTION (3MP)	RESOLUTION (6MP)
Real Time Enabled	1 Fish Eye Stream (main)	2048x1536	3072x2048
	4 e-PTZ Streams (main)	800x600	1024x768
Real Time Disabled	1 Fish Eye Stream (main)	1536x1536	1280x1280
	1 Panorama Stream (main)	1600x1200	2048x1536
	4 e-PTZ Streams (main)	800x600	1024x768

**Table 1**

To upgrade the camera to the latest firmware **v5.0.9** , first download the firmware from the FTP:

Then, log in to the camera and go to:

# TECHNICAL BULLETIN

## CONFIGURATION→ADVANCED CONFIGURATION→SYSTEM→MAINTENANCE

On the bottom of the page locate the **REMOTE UPGRADE** area, browse to the firmware file and press **UPGRADE** (Figure 1).

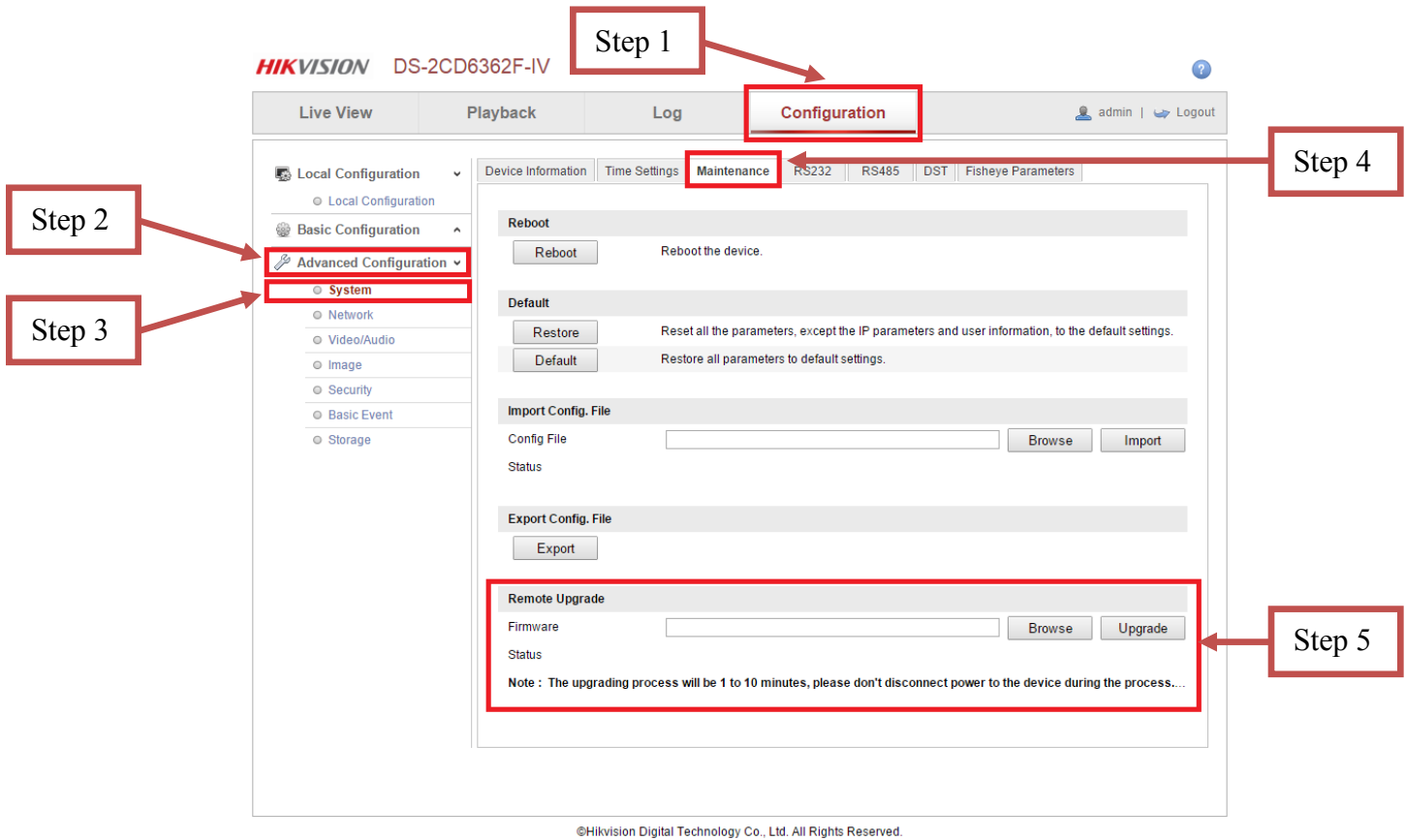


Figure 1

After the firmware has been upgraded, the camera will have the new additional operating modes as well as some stability improvements.

# TECHNICAL BULLETIN

**Table 2** describes the modes of the **v5.0.9** firmware.

MODE	STREAMS	RESOLUTION (3MP)	RESOLUTION (6MP)
Mode 1	1 Fish Eye Stream (main)	1536x1536	2048x1536
	1 Panorama Stream (main)	1600x1200	1280x1280
	3 e-PTZ Streams (main)	800x600	1024x768
Mode 2	1 Fish Eye Stream (main)	2048x1536	3072x2048
	4 e-PTZ Stream (main)	800x600	1024x768
Mode 3	1 Fish Eye Stream (main)	1536x1536	2048x2048
	1 Fish Eye Stream (sub)	720x720	720x720
	3 e-PTZ Streams (main)	800x600	1024x768
Mode 4	1 Panorama Stream (main)	1600x1200	2048x1536
	1 Panorama Stream (sub)	704x480	704x480

**Table 2**

The default mode with the firmware prior to **v5.0.9** is set to the **NON REAL TIME** mode. After upgrading the firmware to **v5.0.9**, the default working mode will be set to **MODE 3**.