

<b>Title:</b>	Fish Eye Camera General Information	<b>Version:</b>	v2.0	<b>Date:</b>	031416
<b>Product:</b>	DS-2CD6xx2F-I(V)	<b>Page:</b>	1 of 3		
<b>Action Required:</b>	None, Information Only				

## Summary

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 build 141009** a sub stream has been added to some of the working modes of the camera.

## Working Modes

The Fish Eye cameras have multiple working modes:

- With firmware prior to **v5.0.9 build 141009**:
  - a. Real Time Mode ENABLED
  - b. Real Time Mode DISABLED
  
- With the latest firmware **v5.0.9 build 141009**:
  - a. Mode 1
  - b. Mode 2
  - c. Mode 3
  - d. Mode 4

**Table 1** describes firmware modes prior to **v5.0.9 build 141009**

MODE	STREAMS	RESOLUTION (3 MP)	RESOLUTION (6 MP)
Real Time Enabled	1 Fish Eye Stream (main)	2048 x 1536	3072 x 2048
	4 e-PTZ Streams (main)	800 x 600	1024 x 768
Real Time Disabled	1 Fish Eye Stream (main)	1536 x 1536	1280 x 1280
	1 Panorama Stream (main)	1600 x 1200	2048 x 1536
	4 e-PTZ Streams (main)	800 x 600	1024 x 768

**Table 1**

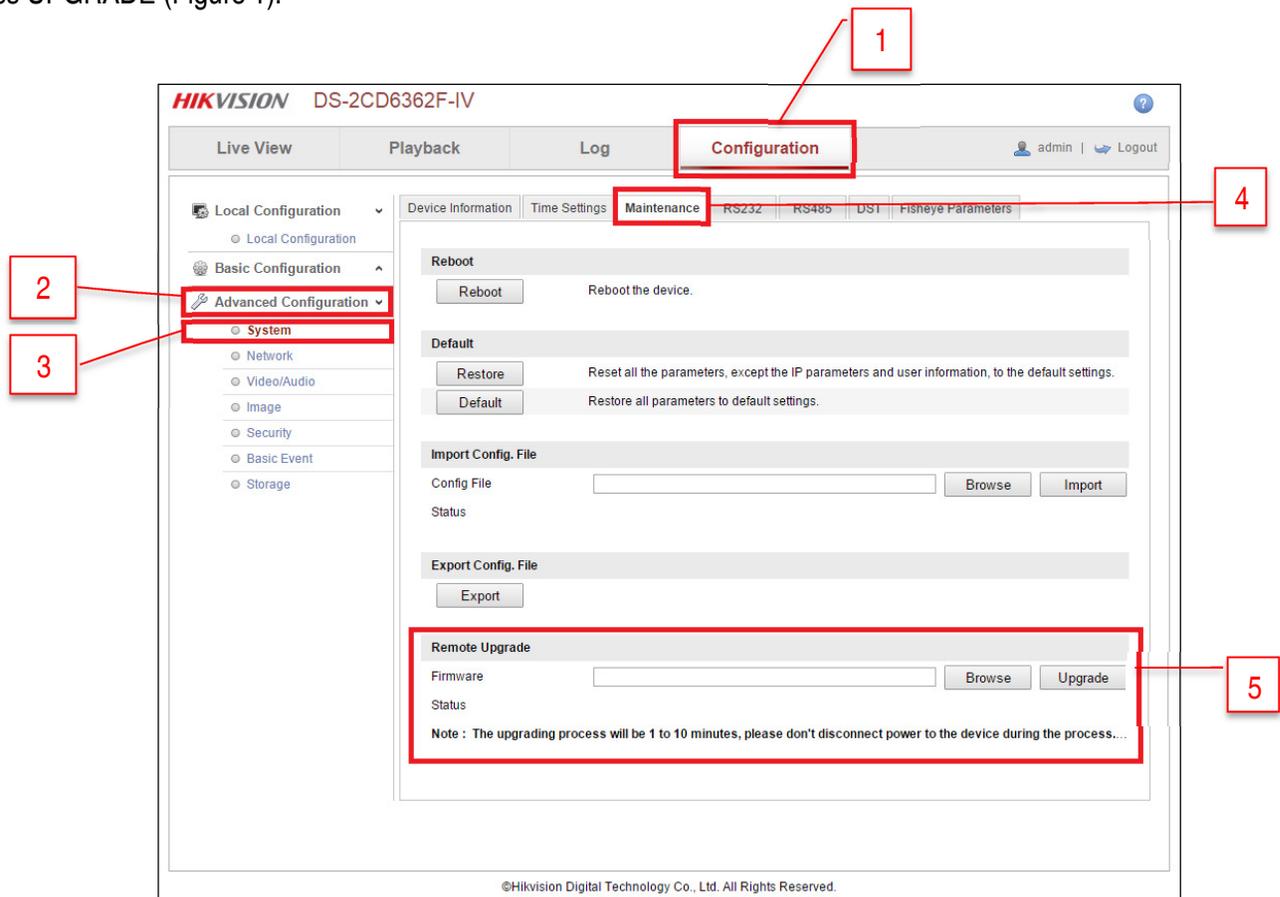
## How To Upgrade the Camera Firmware

1. Download **v5.0.9 build 141009** from the link below:

[https://www.dropbox.com/s/sakz1slo8ouep50/DS-2CD63xxF-I%28V%29%28S%29%20Firmware v5.0.9 141009.zip?dl=0](https://www.dropbox.com/s/sakz1slo8ouep50/DS-2CD63xxF-I%28V%29%28S%29%20Firmware%20v5.0.9%20141009.zip?dl=0)

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2. Log in to the camera.
3. Go to CONFIGURATION > ADVANCED CONFIGURATION > SYSTEM > MAINTENANCE.
4. On the bottom of the page, locate the **REMOTE UPGRADE** area.
5. Browse to the firmware file.
6. Press UPGRADE (Figure 1).



**Figure 1**

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

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Table 2 describes the v5.0.9 build 141009 firmware modes.

MODE	STREAMS	RESOLUTION (3 MP)	RESOLUTION (6 MP)
Mode 1	1 Fish Eye Stream (main)	1536 x 1536	2048 x 1536
	1 Panorama Stream (main)	1600 x 1200	1280 x 1280
	3 e-PTZ Streams (main)	800 x 600	1024 x 768
Mode 2	1 Fish Eye Stream (main)	2048 x 1536	3072 x 2048
	4 e-PTZ Stream (main)	800 x 600	1024 x 768
Mode 3	1 Fish Eye Stream (main)	1536 x 1536	2048 x 2048
	1 Fish Eye Stream (sub)	720 x 720	720 x 720
	3 e-PTZ Streams (main)	800 x 600	1024 x 768
Mode 4	1 Panorama Stream (main)	1600 x 1200	2048 x 1536
	1 Panorama Stream (sub)	704 x 480	704 x 480

**Table 2**

### Default Modes

- Firmware Prior to v5.0.9 Build 141009 — NON REAL TIME mode
- Firmware v5.0.9 build 141009 — MODE 3