# Basic Foscam / Router Configuration Setup

This code was developed for the SensorHub open-source project - <http://www.opensensorhub.org/>.

Set up of the systems includes the following steps:  
  
1. Attach the video camera to a router. The router will identify the camera and assign an IP address as shown in Figure 1.

2. Set port forwarding with the device IP address and port number – as shown in Figure 2. This will allow the user to see the video camera from an external website.

3. Obtain the Primary and Secondary DNS Server addresses from the router – as shown in Figure 3.

4. Log into the Foscam video camera and disable the P2P setting – as shown in Figure 4.

5. Set up the IP configuration (still logged into the Foscam video camera) – as shown in Figure 5. The IP address (at the top) will be the one assigned by the router. The Gateway and Subnet Mask IP addresses should be whatever your computer is using. The primary and secondary DNS server addresses will be the ones obtained from the router.

6. The final step is to attempt to log in externally – that is via the IP address of the router (can be obtained from <http://whatismyipaddress.com/ip-lookup>). The web browser URL would be the IP address and port number – as shown in Figure 6.   
  
  
  
YouTube Videos for Reference  
  
<https://www.youtube.com/watch?v=KVRhQfLe9U8> - Foscam Client Demo - Demonstration of web browser client with Foscam video camera.

<https://www.youtube.com/watch?v=lkrasJy7bb8> - Foscam Client & Java Demo - Demonstration of both web browser client (view images) and Java pan / tilt driver (move camera) with Foscam video camera.

<https://www.youtube.com/watch?v=-ZygZxXFSC8> – Foscam Client & Java with parameters Demo – Demonstration of both web browser (view images) and Java driver with Foscam video camera. Both can set speed parameters, waypoints, etc.

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| Figure 1 – Router ID of Foscam Video Camera |

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| Figure 2 – Port Forwarding Set in Router for Foscam Video Camera |

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| Figure 3 – Obtain Primary and Secondary DNS Addresses from Router |

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| Figure 4 – Disable the P2P Setting in the Foscam Video Camera |

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| Figure 5 – Setup the IP Configuration of the Foscam Video Camera |

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| Figure 6 – Testing of Ability to Access Admin Part of Foscam Video Camera from External Web Browser |