

STORM IP CAMERA



Introduction

The Storm Camera is a small, lightweight IP Based 1080p/720p camera housed in a durable titanium alloy. It has a wide power range, 2000m depth rating, and easily integrates with VideoRay Mission Specialist ROV's (Remotely Operated Vehicles) via our custom 9-Pin cable.

Specifications

- **Housing Material:** Titanium Alloy
- **Window:** Sapphire Glass
- **Field of View:** 77 degrees in water
- **Power:** 15-32v DC @ 2.5W
- **Video Format :** H.264 & MJPEG
- **Resolution:** 1080P & 720P
- **Frame Rate:** 25/30 FPS
- **Weight in Water:** 180g
- **Diameter:** 30mm
- **Length (Exc. Conn.)** 131mm

VideoRay Factory Settings

The Storm Camera comes programmed from VideoRay with the following settings

- **Network:**
 - **Address:** 192.168.1.123
 - **Netmask:** 255.255.255.0
 - **Gateway:** 192.168.1.1
- **Video Stream:**
 - **Type:** H.264
 - **Resolution:** 720P (1280 x 720)
 - **Frame Rate:** 25 FPS
 - **Rate Control:** Constant Bit Rate
 - **AVG Rate:** 3000kb/s

How To View Video Stream: Option 1

- Plug the included **USB Drive** into an external computer running Windows
- Install **vlc-2.2.4-win32.exe** from the **USB Drive**
- Open Tools on the **USB Drive** and copy “**Storm IP – 200ms**” on to the Desktop of the external computer
- Set the external computer’s Static IP Address Information as follows
 - **Address:** 192.168.1.6
 - **Netmask:** 255.255.255.0
 - **Gateway:** 192.168.1.1
- With the external computer connected to the ICB via ethernet cable and the system powered on, open “**Storm IP – 200ms**” from the desktop

How To View Video Stream: Option 2

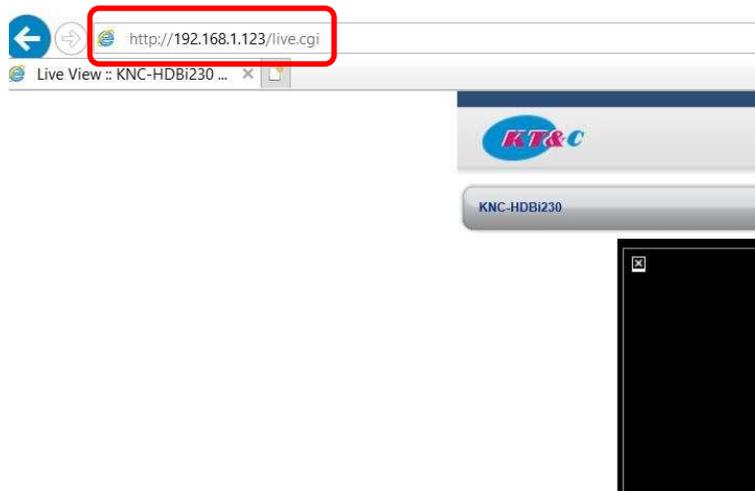
Alternatively, the video stream can be viewed via **Gstreamer** on the ICB by issuing the following terminal command

- `gst-launch-1.0 rtspsrc latency=100 location=rtsp://192.168.1.123/stream0 ! queue ! rtph264depay ! avdec_h264 ! xvimagesink`

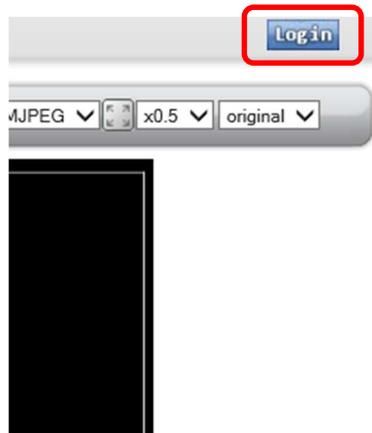
How To Change Settings

VideoRay has preset your Storm Camera with optimal settings at the factory, but we recognize that you may have unique requirements. Modifications to the camera's settings can be made via web browser. All settings must be made using Internet Explorer from a Windows based PC.

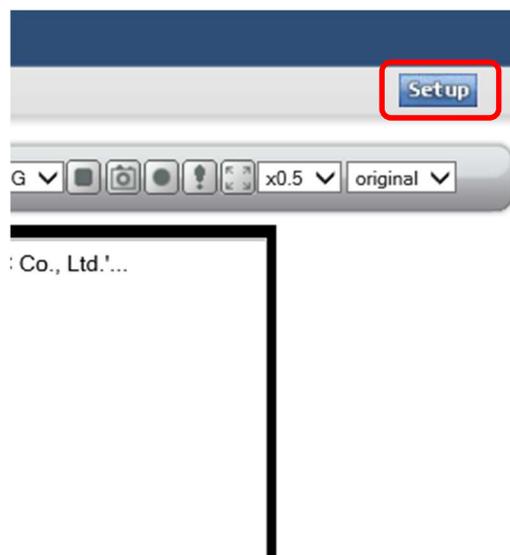
- With the camera connected to your Mission Specialist ROV and powered up, connect a PC via ethernet cable to the ICB.
- Open Internet Explorer and go to the following web Address
 - **192.168.1.123**



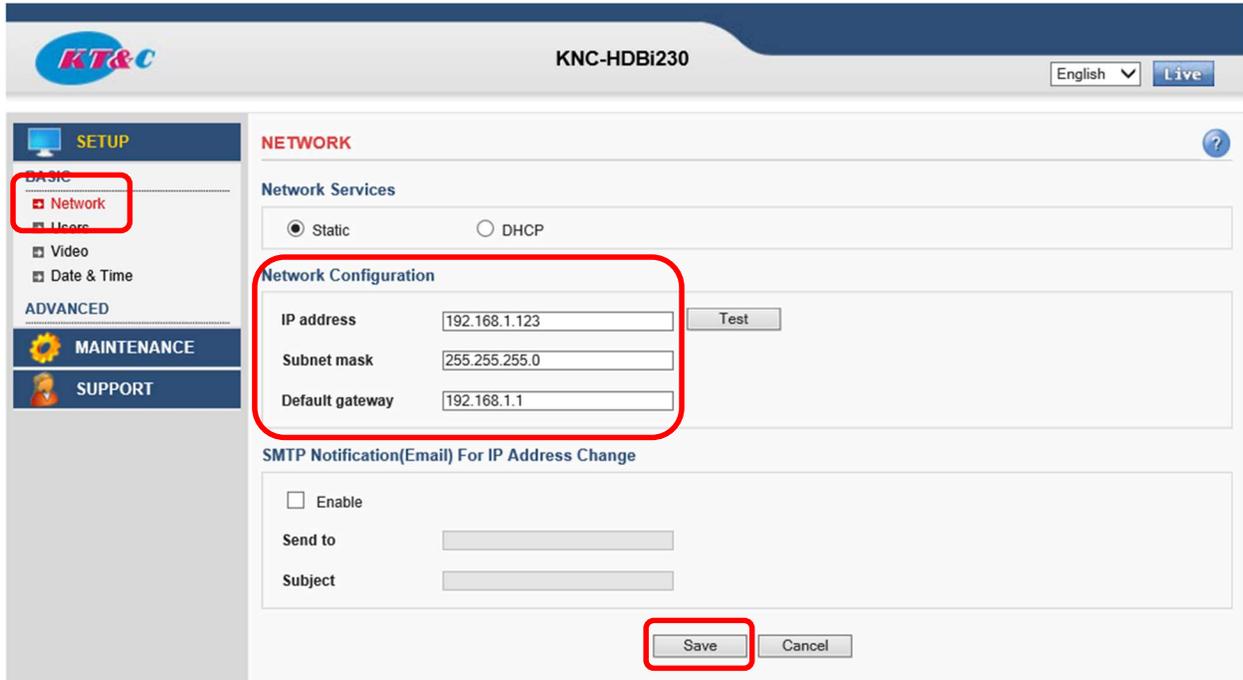
- In the top right corner click “Login” and use the following user ID & Password
 - User ID: admin
 - Password: admin



- Once logged in click “Setup” in the top right corner



- The first page is the Network page, make the required changes then click “save”



- Along the left hand side click “video” this page will bring up the video options (Framerate & Resolution), make the required changes then click “save”

