

# Device: JVC GY-HM660, GY-HM8x0 series and GY-HC900



## Important Notice:

The JVC RCP Device Core will be available in final release January 1st 2020. A beta version will be available until end of August 2019. From September 2019 to December 2019, the JVC RCP Device Core will be unavailable for SKAARHOJ branded controllers (but it will work on Connected Cam Studio RCPs exclusively in this period).

## Introduction

The Device Core "JVC RCP" is used for controlling the JVC GY-HM660, GY-HM8x0 series and GY-HC900 cameras and allows to control most parameters of the cameras through the official HTTP based API. The Device Core is still in beta.

## Setting up Camera

In order to control the camera a USB/Ethernet adapter must be utilized from the USB2.0 HOST port on the camera, if no native port are on the camera. All communication between a SKAARHOJ interface and the camera is done via wired IP. This tutorial illustrates setup for a JVC GY-HM660U.

For the JVC GY-HC900 the ethernetport directly on the camera can be used.



A number of actions are required for a SKAARHOJ controller to communicate with the camera. Basically the IP address of the camera must match the IP address of the JVC Device Core on a SKAARHOJ controller. This is an example using IP 192.168.10.249.

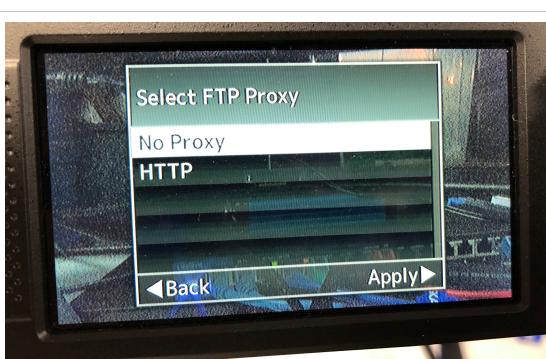
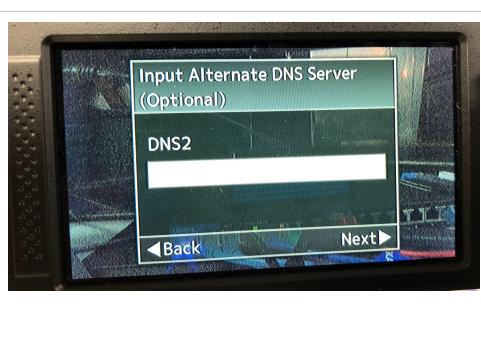
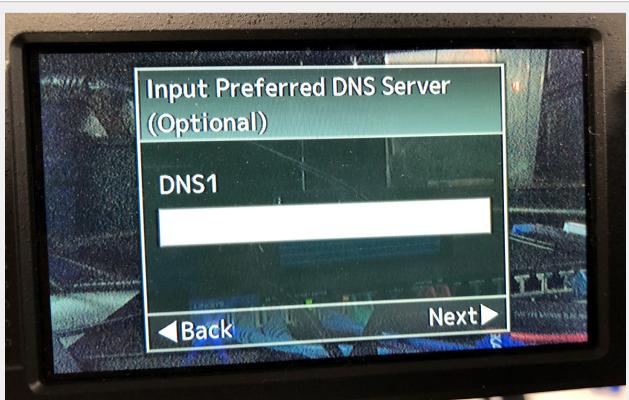
### Set Static IP

Main Menu → System → Settings → Connection Setup...

You can use the Wizard to guide you to set the following addresses

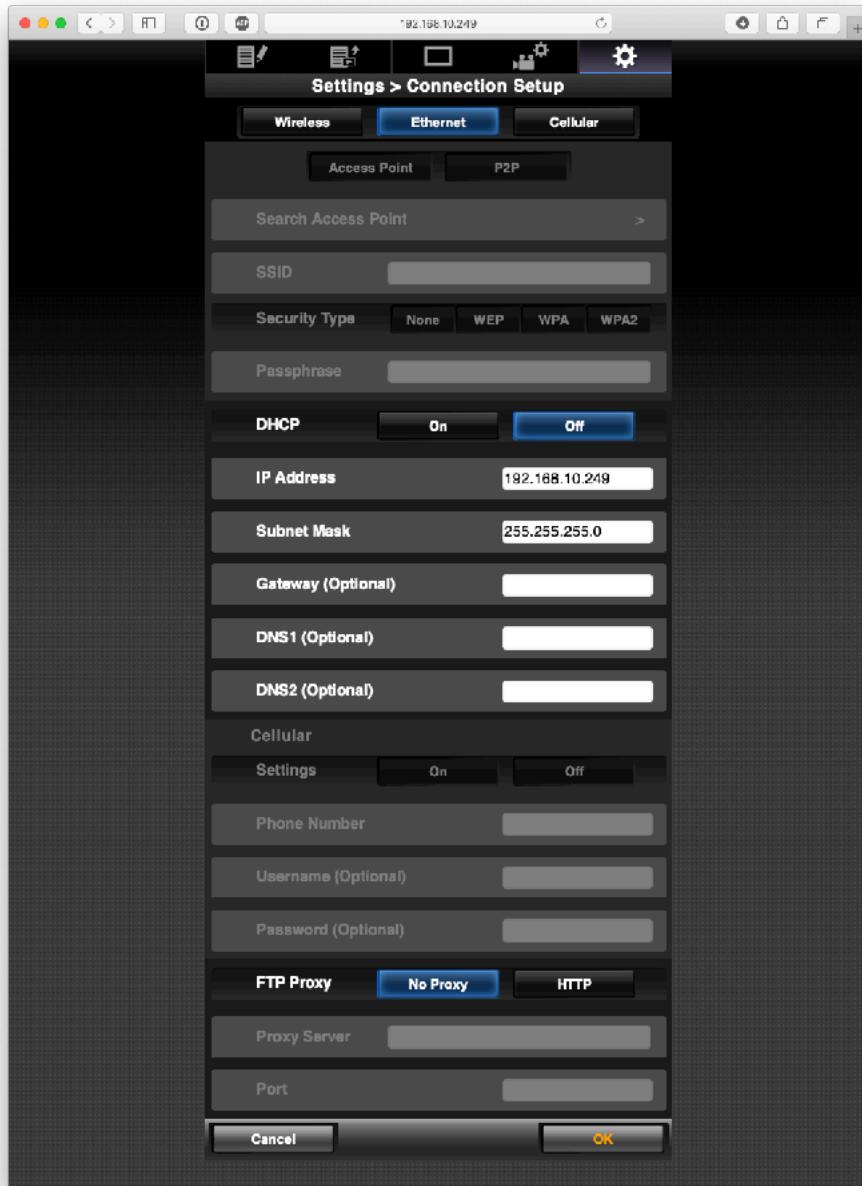
- DHCP: **OFF**
- IP ADDRESS: **192.168.10.249**
- SUBNET MASK: **255.255.255.0**





## SKAARHOJ DEVICE CORES

The configuration can also be set on the web interface of the camera it self (if Web Access have been enabled)



## Enable Web Access

Web access must be enabled on the camera with

Login Name: prohd

Password: skaarhoj

In order for our controllers to authenticate with the cameras.

**JVC GY-HM660U      Main Menu → System → Settings → Web...**

**JVC GY-HC900      Main Menu → Network → Web...**



Set Web Access to On



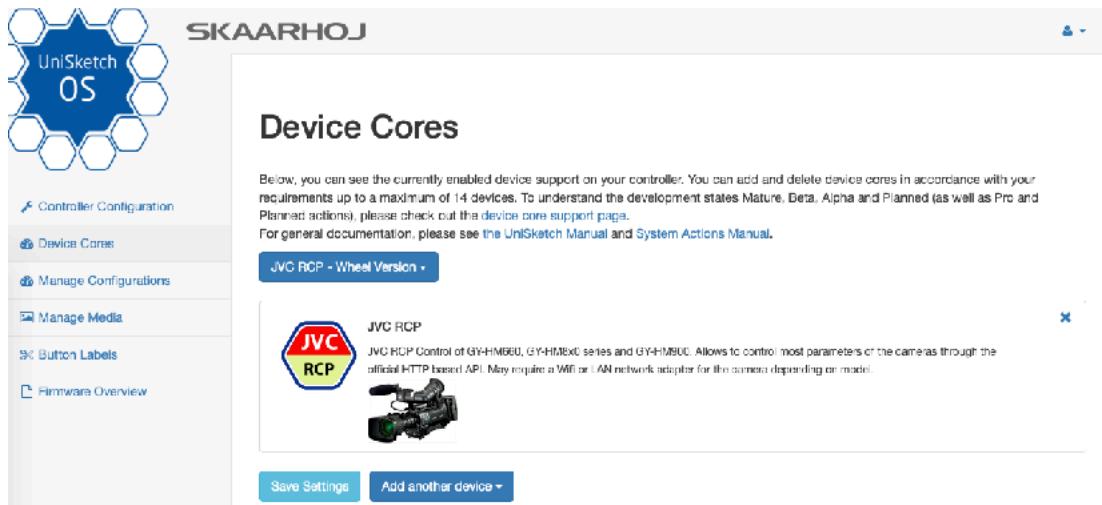
Set "Login Password" to: skaarhoj



Example on GY-HC900

## Setting up Controller

If you are not using a default configuration then the Device Core “Panasonic Cinema Cams” must be added to your controller



The Device Core *must* have the IP address matching, the one set on the camera it self (see “Setting up Camera” section).

**Devices Settings**

**Controller IP Settings**

- IP: 0.0.0.0
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.10.1
- DNS: 192.168.10.1

**JVC RCP**

IP: 192.168.10.249

**IP Configuration**

Use DHCP

IP Address: 192.168.10.99

Subnet: 255.255.255.0

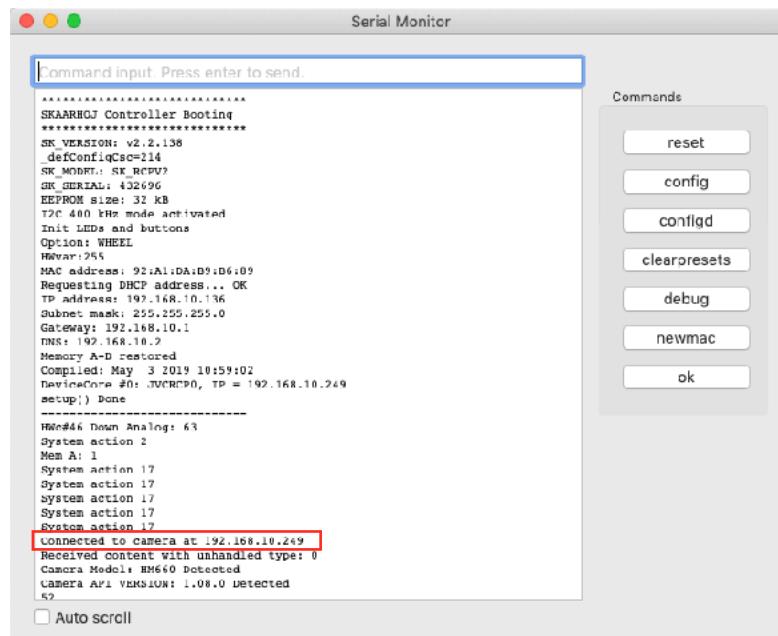
Gateway: 192.168.10.1

DNS: 192.168.10.1

JVC RCP: 192.168.10.249  Enabled

**Save IP Settings**

Connection to the camera can be confirmed from the Serial Monitor with the command: *Connected to camera at 192.168.10.249*



## SKAARHOJ DEVICE CORES

This is a overview of the actions implemented in the Device Core

- JVC RCP: Zoom
- JVC RCP: Zoom (Binary)
- JVC RCP: Recording
- JVC RCP: Streaming
- JVC RCP: Full Auto
- JVC RCP: Master Black
- JVC RCP: Iris
- JVC RCP: Iris Push Auto
- JVC RCP: Iris Mode
- JVC RCP: Gain Mode
- JVC RCP: Ae Level
- JVC RCP: Shutter Speed
- JVC RCP: Shutter Mode
- JVC RCP: WB Mode
- JVC RCP: WB OnePush
- ✓ JVC RCP: WB Paint
- JVC RCP: Focus Mode
- JVC RCP: Focus OnePush
- JVC RCP: Focus
- JVC RCP: User Switch
- JVC RCP: Menu
- JVC RCP: Menu Navigation
- JVC RCP: Detail
- JVC RCP: Tally
- JVC RCP: Speed Limit

At this present time only a default shipping config with the JVC camera for the RCPv2 exist. We recommend only to control **one** camera per SKAARHOJ controller.