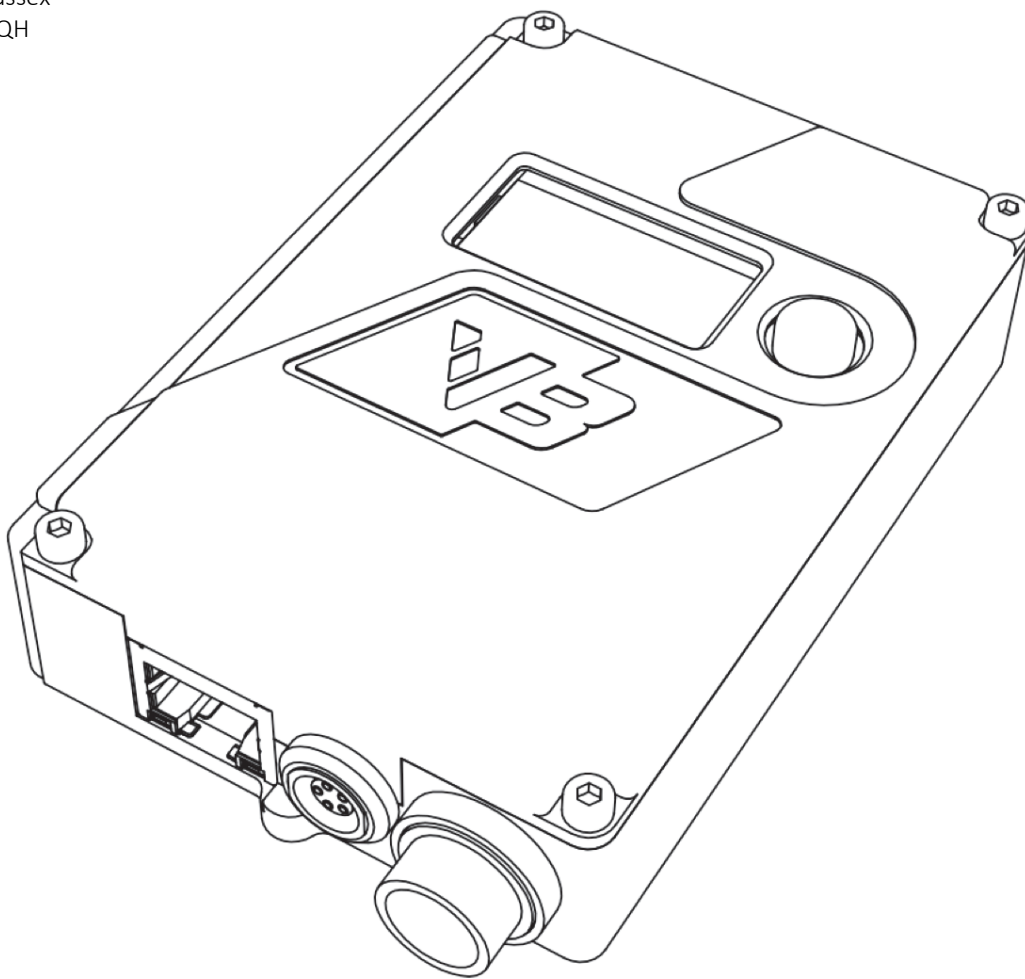


# RXSM-E User Manual

Revision 3 – 09.11.20

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# Camera Control Data Receiver

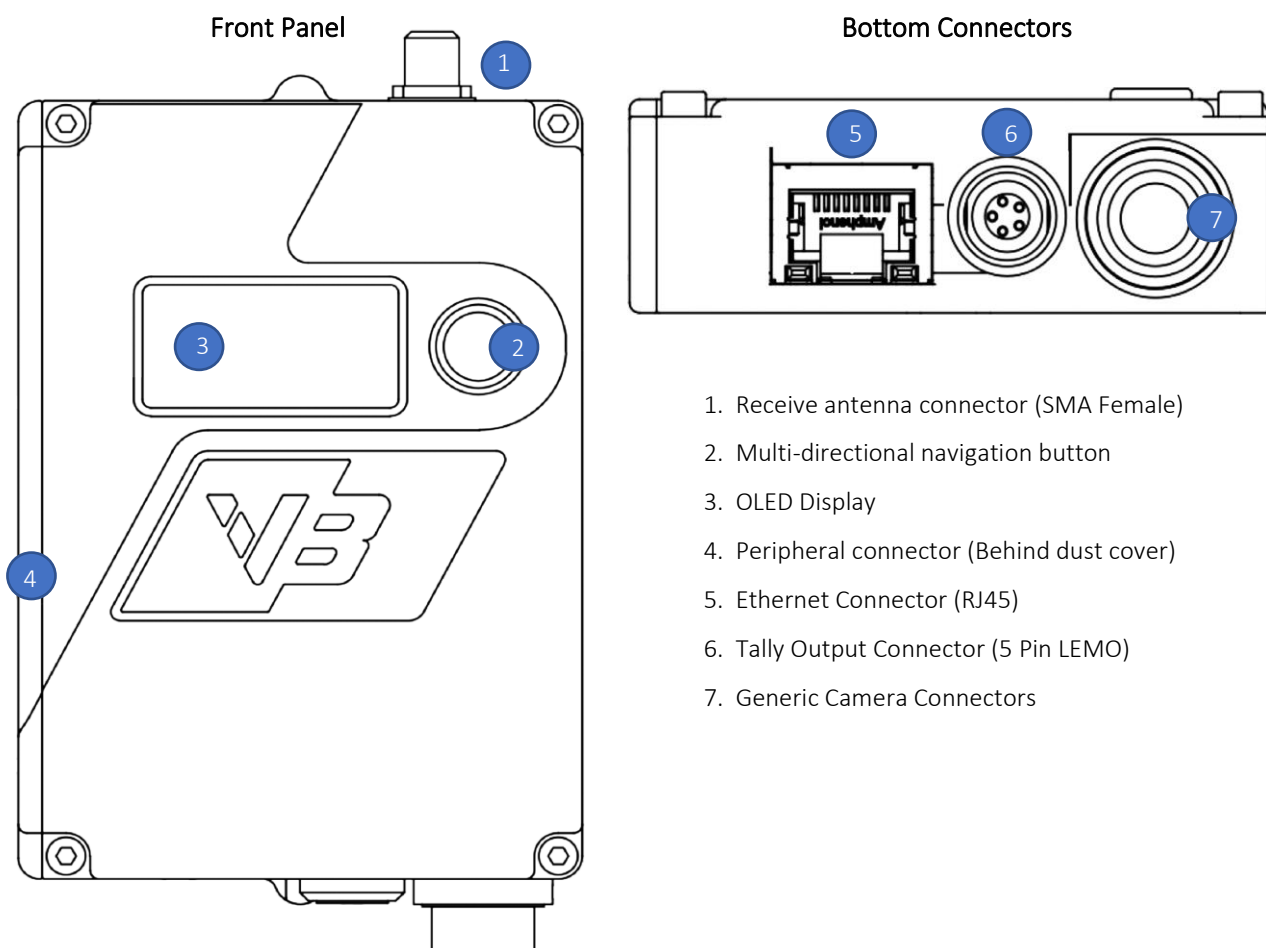
## Getting Started

We hope that you will find the necessary information within this manual and our specific quick setup guides, if however, you require additional support please don't hesitate to contact your local distributor.

## Introduction

The Videosys camera control system allows replacement of the cables between Remote Control Panels (RCP), Camera Control Units and Cameras with a robust broadcast quality wireless link.

The Videosys camera control solution consists of three distinct components; an 'IDU' (Indoor Unit), 'ODU' (Outdoor Unit) and an 'RX' (Receiver). Multiples of these components can be used to best fit the operator's requirements, for example multiple IDUs can be connected to allow for many camera control paths over one ODU. Multiple ODUs can be used to increase RF coverage, and each camera to be controlled requires an RX.



1. Receive antenna connector (SMA Female)
2. Multi-directional navigation button
3. OLED Display
4. Peripheral connector (Behind dust cover)
5. Ethernet Connector (RJ45)
6. Tally Output Connector (5 Pin LEMO)
7. Generic Camera Connectors



## Navigating Menus

The Up, Down, Left, Right and Enter buttons can be used to navigate through the menus. Menus are organised into lists; these can be scrolled through with the Up and Down buttons. To enter the selected submenu or option, press the Right button. Left will return to the previous menu. The centre-click Enter button is used to set or save options such as frequency or IP addresses.

Within a text edit screen, the Left and Right buttons can be used to select the character being edited and the Up and Down buttons to change that character. To save and return press the Enter button, to discard and return use the Left button to scroll back to the first character and then press Left once more to return.

### Status Screens

The first screen that will be displayed to the user is the status screen (Fig 2), this is designed to give a quick overview of the units' configuration and operating status.

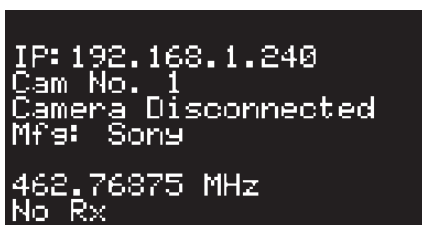
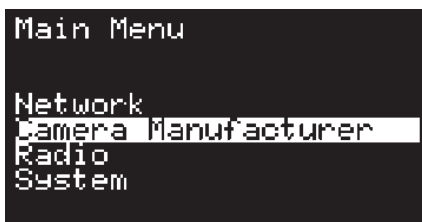


Fig 2. The RX status screen

### Menu Structure

From the main menu, you are presented with 5 selectable options:

- Network
- Camera Manufacturer
- Radio
- System
- Camera Number

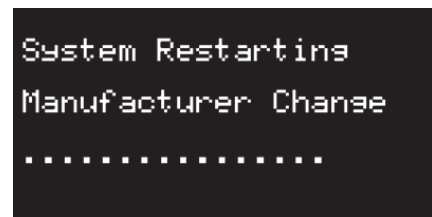


### Camera Manufacturer

Here, the unit allows for the Camera Manufacturer to be set according to the camera used with the RX.

For the list of Camera Manufacturers; consult the release note for the version of firmware that is currently installed. Using the Multi-directional navigation button, select the manufacturer that matches the camera and press Enter. Progression 'dots' will be displayed on the screen (Fig 3) and will force the RX to Restart ready to operate with the camera.

Fig 3.  
Manufacturer  
Change



### Radio

The radio frequency can be changed by pressing to the Right. The Radio Functions screen displays the current frequency (Fig 4) Pressing Enter allows for the frequency to be changed (Fig 5).

Fig 4.

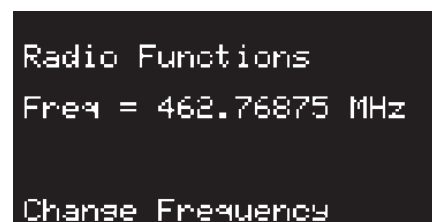
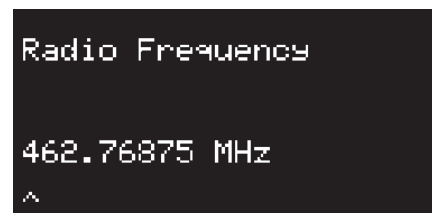


Fig 5.



## System

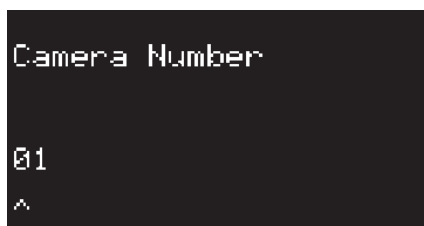
This screen consists of six options that display various information about the RX. Navigating Up, Down and Enter allows the user to view and display detailed information.



Fig 6. Manufacturer Change

## Camera Number

Allows for a camera number to be set between 01 to 96.



## Network

This menu allows changes to the IP Address, Netmask and Net Gateway. Using the navigation button to set the IP values to suite the network.

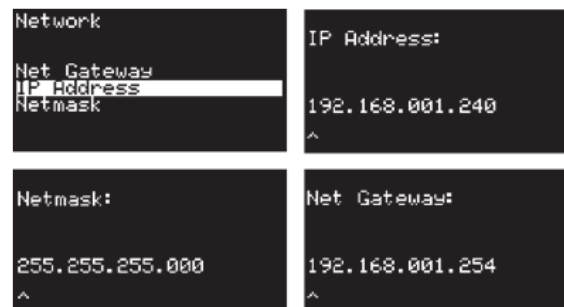
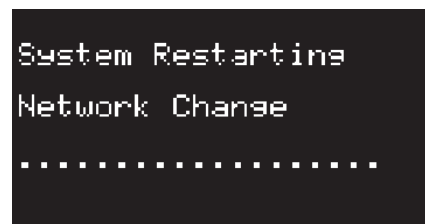


Fig 7. Network Menu.

When changes are applied return to the Network Menu and back to the Main Menu where the RX will restart and set the Network Change(s).





## System, Camera Number



## Web Interface

The RX has a built-in webserver and serves a range of useful control pages, if there is a device with a web browser on the same network, this interface can be used to quickly change settings and perform updates directly from a computer.

### Accessing the Web Interface

To access the Web Interface, firstly power up the RX and connect a PC or laptop up to the same IP network as the RX. By default, the RX is set to 192.168.1.240. Open a web browser and type in the IP address of the RX. A GUI Web interface is presented (Fig 8).

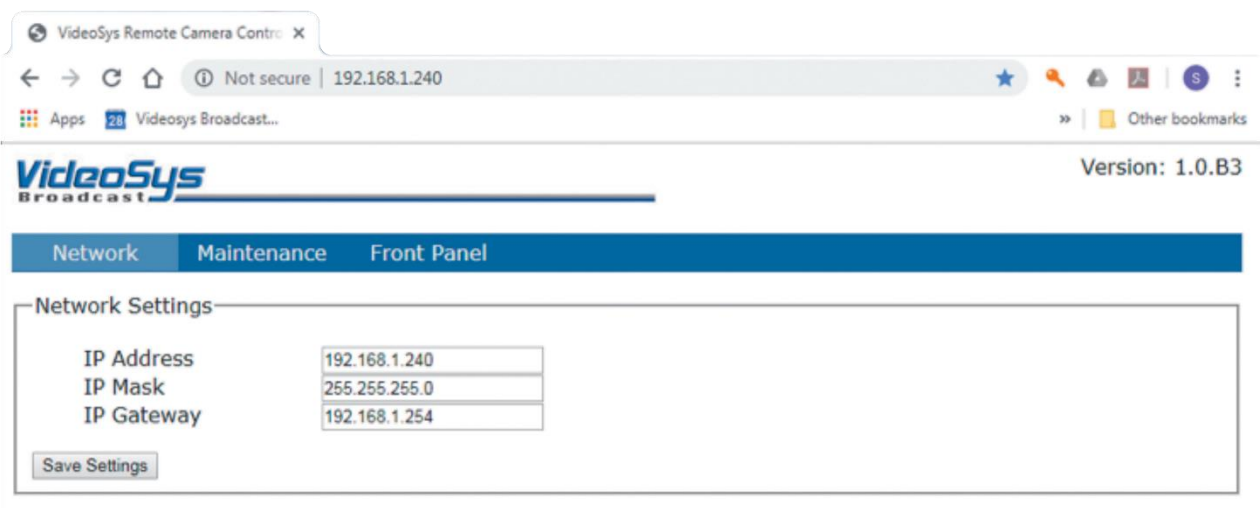


Fig 9. RX GUI Web Interface.

The Web Interface allows for changes to network settings, software updates and access to the front panel where changes can be made as on the actual RX.

## Unit Updates

Selecting the Maintenance tab on the Web interface displays the Software Update screen. Updates can be downloaded from the Videosys website.

Once downloaded, click on the Choose File button. Downloads are usually found in the Downloads folder (Fig 10). Once the file has been selected click on Perform Upgrade. The upgrade should only take a few seconds and will restart the RX once complete.

NOTE: It is important that the RX does not lose power whilst the upgrade is taking place.

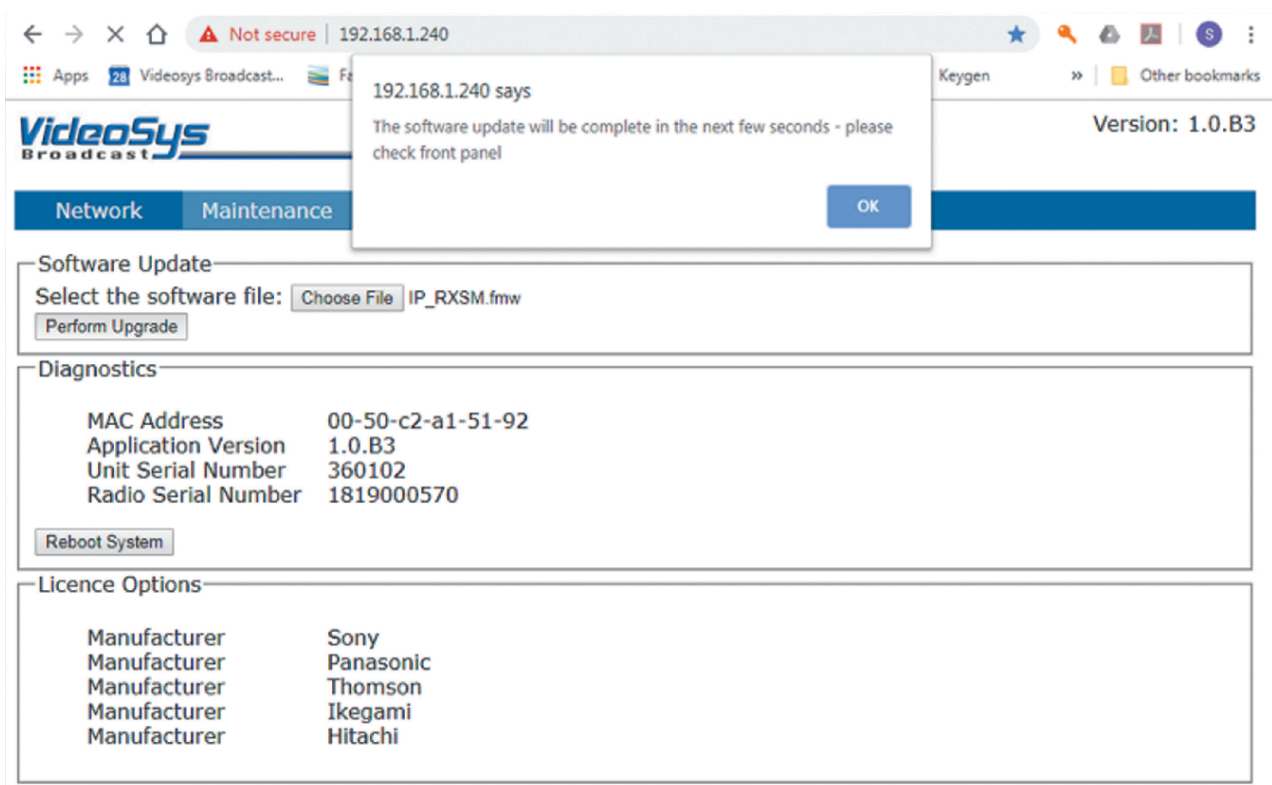


Fig 10. Updating the RX.

## Specifications

|              |   |
|--------------|---|
| Power:       | DC 9-17v (Supplied through a camera cable or Lemo).   |
| Connectors:  | Generic Connector for all Manufacturer.<br>Hirose HR10A-10P (73).<br>FGG.0B.305 LEMO External Tally Output.<br>SMA RF antenna connector.<br>Ethernet port - RJ45. |
| Frequency:   | 403 -473 MHz.   |
| Interface:   | OLED screen with function buttons.  |
| Occupied     |   |
| Bandwidth:   | 12.5 kHz  |
| Sensitivity: | 114 dBm   |

## Dimensions

Length: 92mm  
Width: 60mm  
Depth: 20mm  
Weight: 0.7kg

## License Options

- Sony
- Grass Valley
- Hitachi
- Ikegami
- Panasonic – Camcorders using EC4 or RC10 controllers
- Panasonic Studio – Studio range of cameras
- Arri
- Dreamchip
- Sony VISCA