

Setup Guide

for use of XL Motion Controller with Sony®/VISCA Remote
Camera Controllers

Version 1.2

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1. Introduction

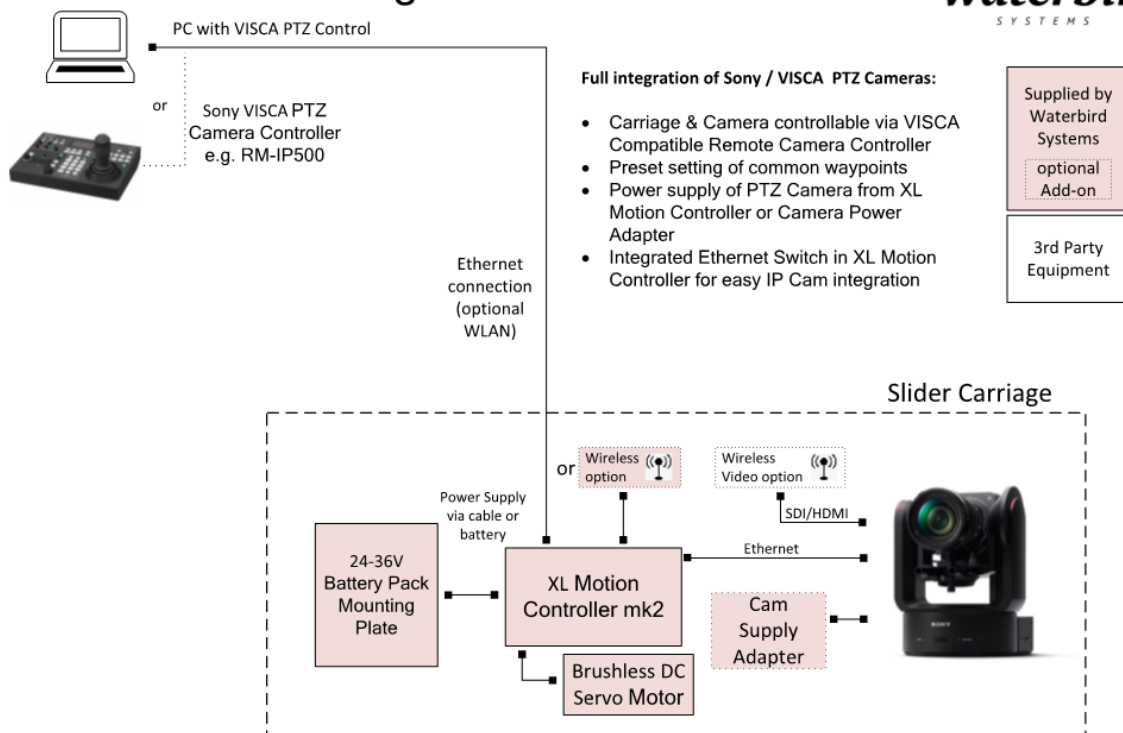
The XL Motion Controller is capable of being controlled via VISCA over IP compatible Remote Camera Controllers like the Sony® RM-IP500 via Ethernet Interface from XL Motion Controller Firmware Version 940 and later. (RM-IP10 supported from v958 onwards)

Before setup the System, make sure the License Option is activated in your XL Motion Controller (VISCA License). After license activation a power cycle of the control unit is necessary.

The License status can be checked via Control Unit Config Tool found on <https://waterbird.at/support/> or the Motion Control Software. Also, the activation code can be entered via Control Unit Config Tool if you have purchased the License Code separately.

Check also Chapter “Control via Ethernet” in the XL Motion Controller Manual that can be found here: <https://waterbird.at/support/>

Multi Slider XL – Sony® VISCA PTZ Camera Integration



2. RM-IP500 Remote Controller

2.1 Preparation

- 1) The newest Firmware Version shall be installed on the Camera Remote Controller.

Please visit Sony® Homepage for updates of your Camera Remote Controller.

- 2) Make sure all Devices (PTZ Camera, RM-IP500 and XL Motion Controller) are in the same Network and set to the same IP Subnet. (standard preconfigured subnet mask is 255.255.255.0)

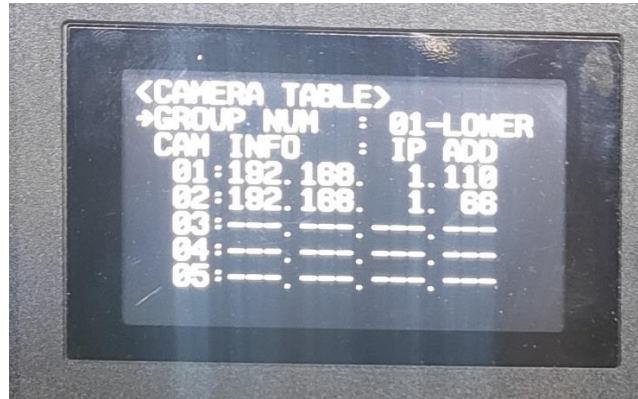
XL Motion Controllers Standard IP is 192.168.2.20. You can use the Control Unit Config Tool for setting to another IP address or let the RM-IP500 assign an IP address via the auto IP function. (see manual of RM-IP500)

Please refer to XL Motion Controllers User Manual how to change IP address manually. (Manual and Config Tool to be found here: <https://waterbird.at/support/>)

2.2 Setup

- 1) On the RM-IP500 search for new cameras in the network. See RM-IM500 manual for how this is done.

The slider should be recognized as separate camera. So, if you have a VISCA PTZ Camera plus the Slider connected two cameras will be recognized:



- 2) After successful connection the slider Reference Run can be started by selecting the Number assigned to the slider and pressing the Power button on the RM-IP500. (top left)

Hint: Make sure power can be switched for every camera individually by configuring in RM-Menu: CONFIG -> CAM POWER to "EACH"

While the Reference Run is ongoing the Power Button is flashing. Once the Referencing is done the light will be steady green.



- 3) Now you are good to go to use the slider as described in the next chapter.

2.3 Operation of the Slider

By selecting the Camera Number of the Slider (in this example Nr 2) you can move the Slider via moving the Joystick left and right (pan axis). The sensitivity of the Joystick can be adjusted via the “SPEED” knob left to the Joystick.

Make sure the manual control is activated via the “Active” button next to the Joystick.

If a pole is connected to the System, the pole can be moved up and down by moving the Joystick up and down (tilt axis)



2.4 Memory Positions

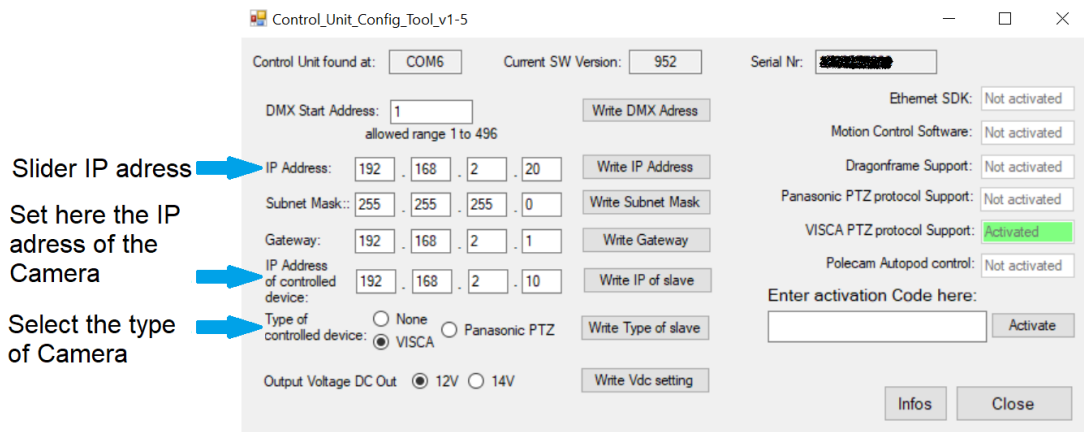
Also saving and recalling of preset positions is possible, like a PTZ camera via Store and Recall function. Please refer to the manual of RM-IP500 on how to store, recall and delete preset positions.

During recall of memory position, the speed of the slider can be controlled via the “IRIS” Knob.

2.5 Combined Positions of Camera & Slider

As the PTZ console is not capable of saving and recalling positions from multiple devices at the same time the following workaround was integrated into the XL Motion Controller:

The camera IP address must be stored in the XL Motion controller via Control Unit Config Tool:



Now, if a position is stored, deleted or recalled by sending the command to the XL control unit the controller is executing the command by itself and in addition forwarding the command to the camera.

This way both devices can be moved to a preset point at the same time.

For this always use the save, recall and delete commands of the XL Motion Controller. (in the example of the chapters before its CAM 2) for memory position control.

2.6 Automatic Movement Modes

2.6.1 Normal Ping-Pong Mode

With this mode the Slider can go from one End to the other End and back all the time. This can be useful for steady shooting during different Applications e.g. an Interview and afterwards cutting between different camera positions.

This simple Ping-Pong Mode can be activated by selecting the Slider Camera Nr. (in this example Cam Nr. 2) and then pressing the “O.P.AWB” button. The “O.P.AWB” button will flash for some seconds and the “BAR” Button will light up while the Ping-Pong function is active.

To deactivate the automatic movement, you can press the “O.P.AWB” button again or start a manual move by using the joystick or selecting a Preset.

During the Ping-Pong movement the speed of the slider can be controlled via Iris setting like described before.



2.6.2 Advanced Ping-Pong Mode

This Mode allows to set up an automatic movement between the Memory position 1 and 2. Not only the Slider movement is triggered, but also the movement of the optionally connected PTZ camera and motorized Pole. This mode moving not only between the end points, but between previously set positions which can be useful for certain applications.

This advanced Ping-Pong Mode can be activated by selecting the Slider Camera Nr. (in this example Cam Nr. 2) and then pressing the “BARS” button. The “BARS” button will light up while the Ping-Pong function is active.

To deactivate the automatic movement, you can press the “BARS” button again or start a manual move by using the joystick or selecting a Preset.

During the Ping-Pong movement the speed of the slider can be controlled via Iris setting like described before.

Note: camera will only move together with slider & pole if set up correctly, see chapter 2.5 .

3. RM-IP10 Remote Controller

3.1 Preparation

Make sure all Devices (PTZ Camera, RM-IP10 and XL Motion Controller) are in the same Network and set to the same IP Subnet. (standard preconfigured subnet mask is 255.255.255.0)

XL Motion Controllers Standard IP is 192.168.2.20. You can use the Control Unit Config Tool for setting to another IP address or set another IP via the Sony RM-IPSetupTool.

Please refer to XL Motion Controllers User Manual how to change IP address manually. (Manual and Config Tool to be found here: <https://waterbird.at/support/>)

3.2 Setup

- 1) On the RM-IP10 set a camera number of your choice to the IP address of the XL Motion Controller (standard IP is 192.168.2.20). For this example, camera Nr. 1 was used.

For information about how to configure the RM-IP10 see the Manual of RM-IP10 controller and the Sony RM-IPSetupTool.

- 2) After successful setup of the IP settings, the slider Reference Run can be started by pressing the “POWER” button and while holding the button down also press the Camera Number assigned to the slider.



- 3) After the Reference run is finished you are good to go to use the slider as described in the next chapter.

3.3 Operation of the Slider

By selecting the Camera Number of the Slider (in this example Nr 1) you can move the Slider via moving the Joystick left and right (pan axis).

If a pole is connected to the System, the pole can be moved up and down by moving the Joystick up and down (tilt axis)



3.4 Memory Positions

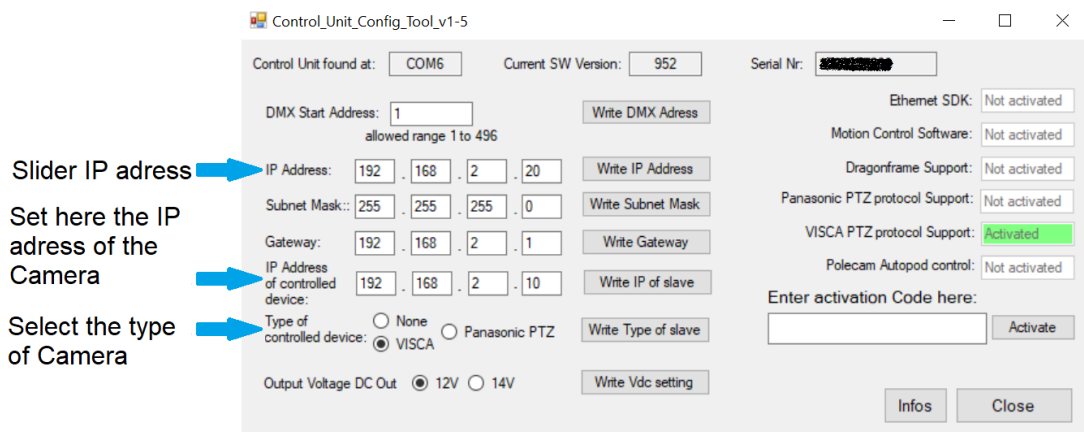
Also saving and recalling of preset positions is possible, like a PTZ camera via Store and Recall function. Please refer to the manual of RM-IP10 on how to store, recall and delete preset positions.

During recall of memory position, the speed of the Slider can be controlled via Focus setting. If Focus is set to “AUTO” the speed is set to 50%. If set to Manual the speed can be controlled by slowly turning the Focus knob left or right

3.5 Combined Positions of Camera & Slider

As the VISCA PTZ console is not capable of saving and recalling positions from multiple devices at the same time the following workaround was integrated into the XL Motion Controller:

The camera IP address must be stored in the XL Motion controller via Control Unit Config Tool:



Now, if a position is stored, deleted or recalled by sending the command to the XL control unit the controller is executing the command by itself and in addition forwarding the command to the camera.

This way both devices can be moved to a preset point at the same time.

For this always use the save, recall and delete commands of the XL Motion Controller. (in the example of the chapters before its CAM 1) for memory position control.

3.6 Automatic Movement Modes

3.6.1 Normal Ping-Pong Mode

With this mode the Slider can go from one End to the other End and back all the time. This can be useful for steady shooting during different Applications e.g. an Interview and afterwards cutting between different camera positions.

This simple Ping-Pong Mode can be activated by selecting the Slider Camera Nr. (in this example Cam Nr. 1) and then pressing the “ONE PUSH AWB” button.

To deactivate the automatic movement, you can press the “ONE PUSH AWB” button again or start a manual move by using the joystick or selecting a Preset.



During the Ping-Pong movement the speed of the Slider can be controlled via Focus setting. If Focus is set to “AUTO” the speed is set to 50%. If set to Manual the speed can be controlled by slowly turning the Focus knob left or right.



3.6.2 Advanced Ping-Pong Mode

This Mode allows to set up an automatic movement between the Memory position 1 and 2. Not only the Slider movement is triggered, but also the movement of the optionally connected PTZ camera and motorized Pole. This mode moving not only between the end points, but between previously set positions which can be useful for certain applications.

This advanced Ping-Pong Mode can be activated by selecting the Slider Camera Nr. (in this example Cam Nr. 1) and then pressing the “BACK LIGHT” button.

To deactivate the automatic movement, you can press the “BACK LIGHT” button again or start a manual move by using the joystick or selecting a Preset.

During the Ping-Pong movement the speed of the slider can be controlled via Focus setting like described before.

Note: camera will only move together with slider & pole if set up correctly, see chapter 2.5 .

