VIDEO PILOT MATRIX CONSOLE USER GUIDE

Rev. 1.0

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Video Pilot Matrix User Guide
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FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference
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Introduction to Video Pilot Matrix Console

Video Pilot Matrix system is a digital video matrix security solution --- it consists of two parts: Video Pilot Matrix Server (*VPMS*) and Video Pilot Matrix Console (*VPMC*).

Video Pilot Matrix Server streams and decodes signals from a number of IP cameras. Video Pilot Matrix Server then sends the video taken from the cameras to the Video Pilot Matrix Console, which displays the videos on a set of monitors. From VPMC, you can select, arrange and manage video displays.

Example set-up of Video Pilot Matrix Server and Console
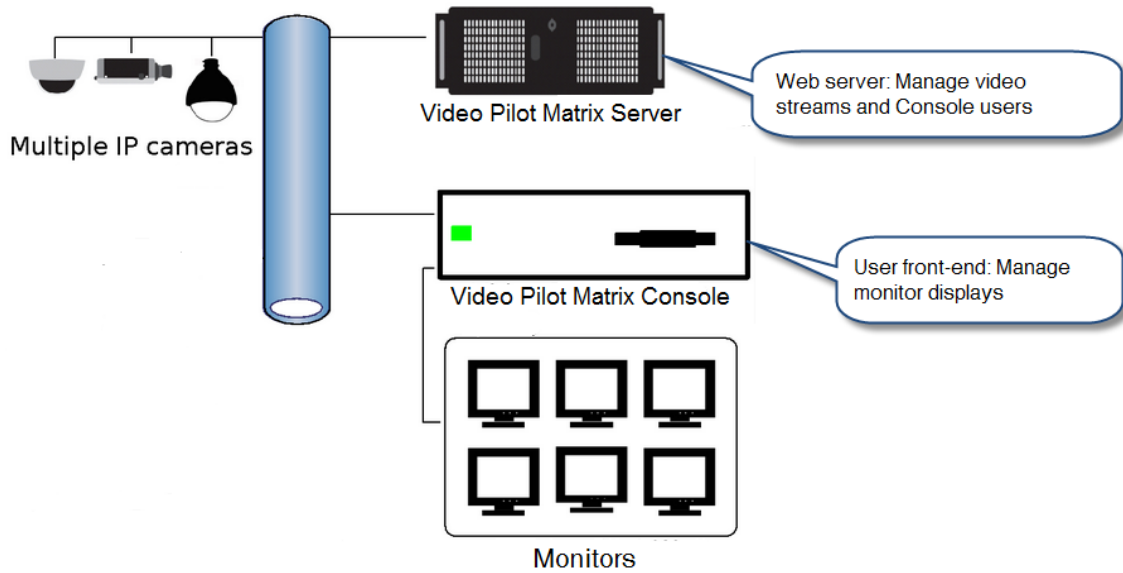
This guide is for users of VPMC.

The basics

<u>Read this section if:</u> This is your first time, or if you are unfamiliar with the operation of, or the interface of Video Pilot Matrix Console.

Starting up, Logging in, Logging out

How do I run VPMC?

VPMC is a Windows application that can be launched from your desktop or Start Menu. Once the program is running, the monitor displays and a log in screen will appear.
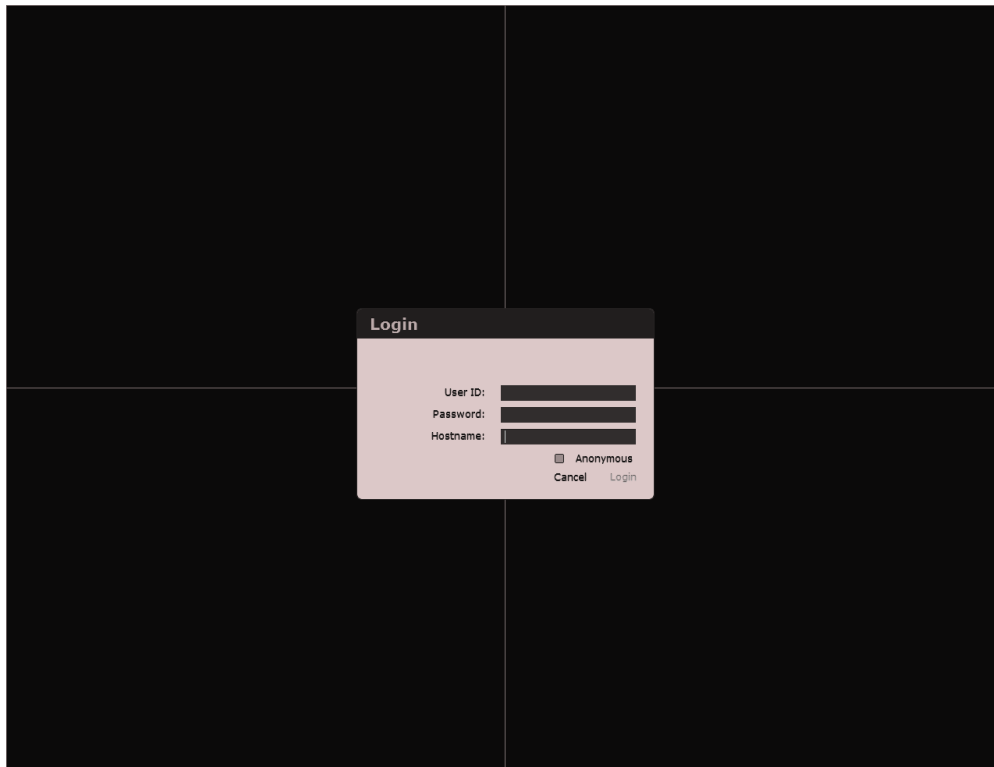
Log in with your credentials. Optionally, you can check Anonymous to log in as an anonymous user. The features that you will have access to as an anonymous user will depend on the *VPMS* settings.

Navigating the interface

What is all this on my screen? What can I do with VPMC once I have logged in?

The Basics

By default, you will see the video displays taking up entire monitors appear. Moving the mouse cursor to the top or the bottom of a monitor will make the control bar appear at the top or bottom of your screen (wherever you moved the cursor). The Control Bar is how you can access all the other interface features of VPMC. Using the Control Bar, you can change screen displays, switch users (**Login**), manage videos (**Video**), configure monitor displays (**Monitor**) or quit the application (**Exit**).

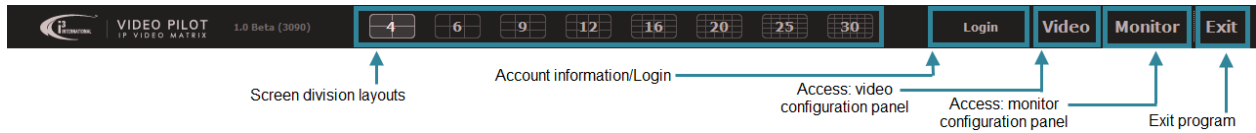If you logged in, you will see your username and the IP address of the VPMS machine as indicated by the blue box in the image below.

The sections you see are screen divisions. Each single *division* can display one *channel* of video. At any given time, per monitor, there is one screen division that has *Call Focus*. Call Focus represented by a colored box around the division. This means that any actions which are performed in VPMC will affect the division or the channel in the division. For example, if a channel is sent to display on a monitor, if its division is not specified, it will appear in the Call Focus division by default.
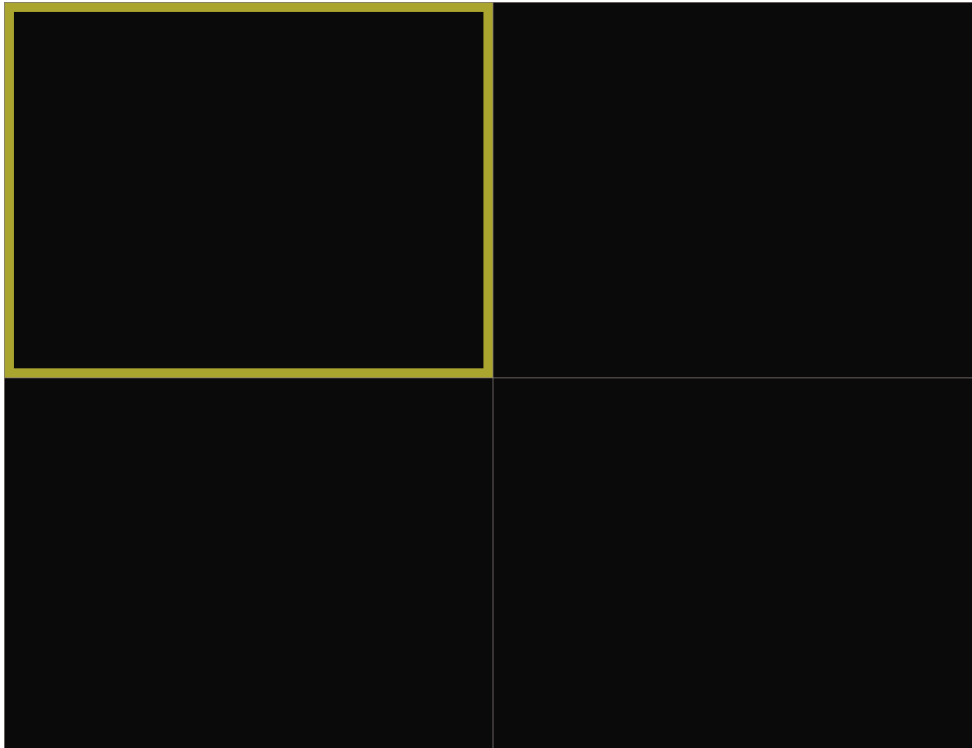
Mousing over a channel on the display at any time will bring up a number of options.
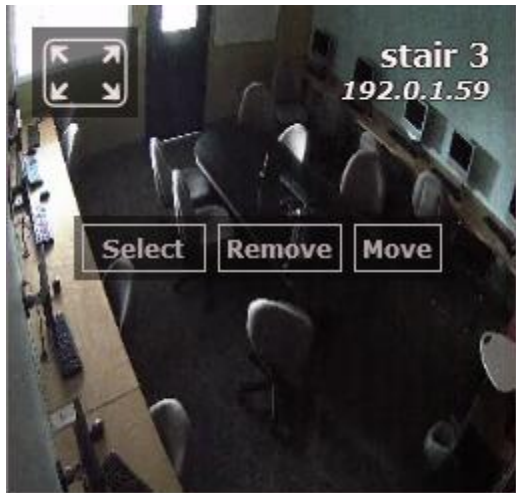
Clicking on the symbol on the upper-left hand corner will maximize the channel so that it fills the entire monitor.
Click **Select** to put Call Focus on this channel.
Click **Remove** to remove this channel from the monitor display.
Click **Move** to move the channel to another position in your monitor display.

Changing screen divisions

- *The current screen division displays either too many video channels or not enough video channels.*
- *Some of the videos on display are too small or too large. I need to change how they appear.*

Read this section if: You need to change how the screens/how many video channels are displayed.

You can use the Control Bar to quickly and conveniently change screen divisions. The screen division layouts are presented Select from the screen displays on the control bar. The division layouts including the number of channels displayed using that division will appear as shown.


Click on one of the layouts to assign a new screen division to the monitor. This can be done to each monitor individually so that each monitor has a different screen division.

Monitor configuration panel

How do I get to the Monitor configuration panel? How do I change the monitor displays?

Read this section if: You need to access the Monitor configuration panel, or if you want to change what your monitors are displaying, or if you want to manage monitor rotation programs.

To get to the monitor panel, move your mouse to either the top or the bottom of the screen to make the control bar appear. (See the section, Navigating the interface.) Once the control bar pops up, click **Monitor** to display the Monitor panel.
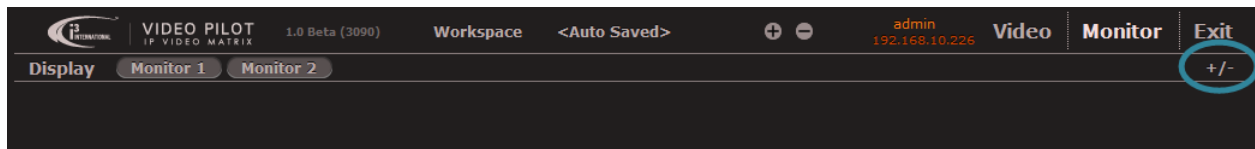
Adding or removing video display from monitors

- *One of my monitors is on a desk/otherwise away from the rest of the monitors. How do I reserve one or more monitors as my workstation while maintaining the video display on the remainder of the screens?*
- *One of my monitors is on a desk/otherwise away from the rest of the monitors. How do I keep my mouse cursor from appearing on my display screens?*
- *I need all the monitors to display video because they are mounted together/grouped together.*

Read this section if: You need to turn video display on or off some of your monitors or you need to restrict mouse movement to only certain monitors.

Click **+/-** on the control bar in the Monitor Panel.
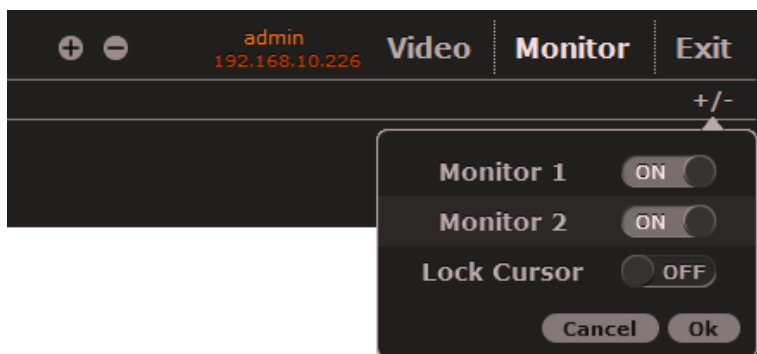
Toggle monitors on or off using **ON/OFF toggles** for each monitor. Setting a monitor to **ON** will have it display only video, whereas setting it to **OFF** will turn video display off, but let you access Windows.

Optionally, restrict mouse cursor movement to the main monitor only by toggling **Lock Cursor** to **ON**.

Viewing miniature monitor displays

I have monitors that are out of my view. How do I know what is currently being displayed on them?

<u>Read this section if:</u> If only a single monitor out of several is visible to you, or if you simply wish to preview the channels on the current screen divisions

On the control bar, toggle miniature monitor displays by clicking on the corresponding monitor buttons (i.e. **Monitor 1**, **Monitor 2** in the image below) next to **Display**.

Miniature monitor displays will show the picture currently visible on the corresponding monitor.

<u>Example:</u> This is a screen shot of the second monitor in a two-monitor configuration. Both miniature monitors are toggled on. You can tell that Monitor 1 is currently showing a four-screen display by the miniature monitor preview and because the 4-screen *division* layout is highlighted underneath the preview.

Monitor Configuration Panel
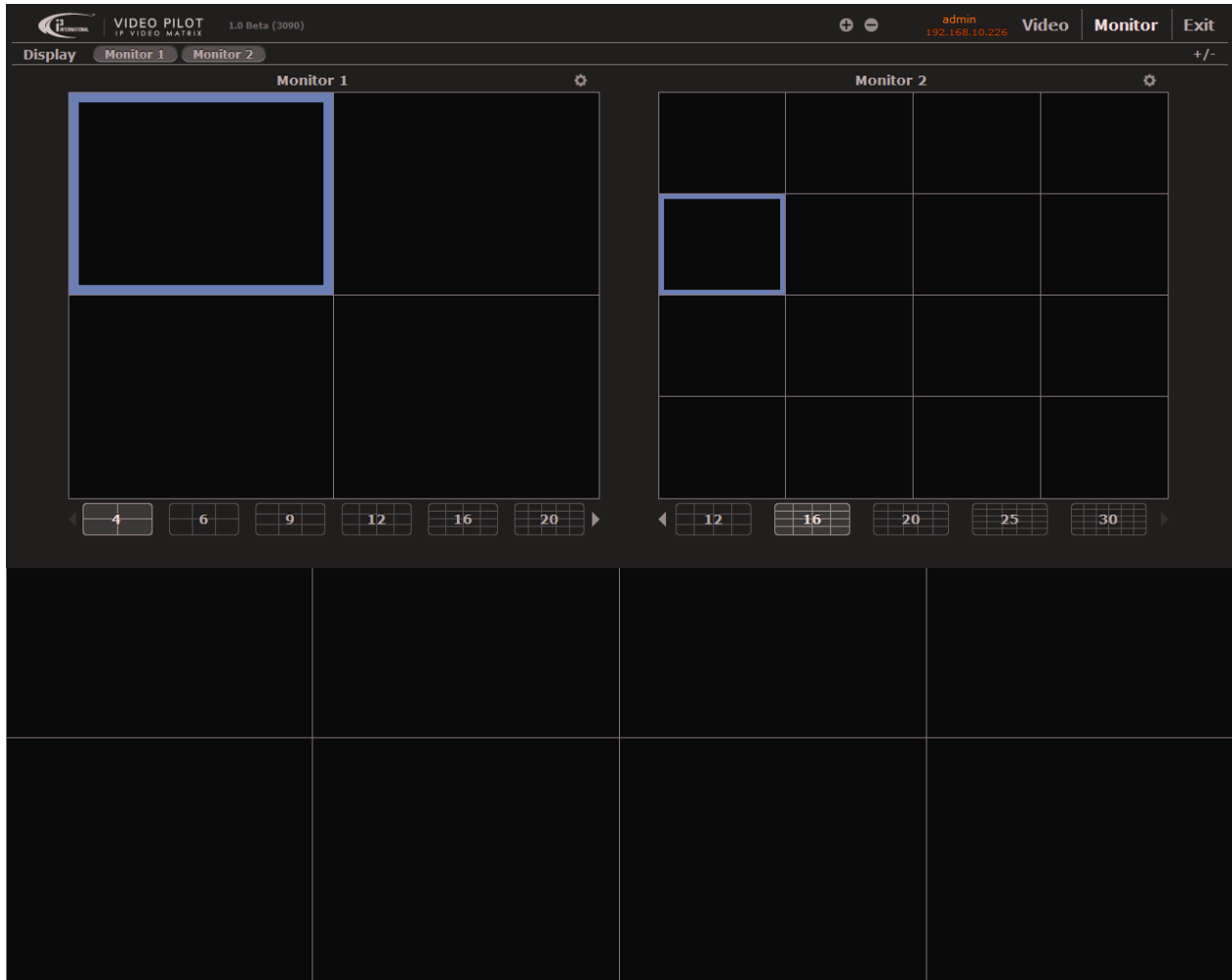
You can toggle the miniature monitor displays on or off individually by clicking on the associated monitor's button. The position of the monitors will determine its numbering as seen below:

Monitor 1	Monitor 2	Monitor 3
Monitor 4	Monitor 5	Monitor 6

Changing Monitor Displays

- *I want to view only some of my channels on one of the monitors. How do I select which videos will show up?*
- *I have multiple video channels that I need to view and they cannot be shown on my monitors all at once. How do I view all of my videos?*

Click on the Monitor button to display the miniature monitor preview.

Click on the Collection name to bring up a menu listing all available Collections. Check the collections that you wish to show in the monitor. All the channels in the collection will show up on the monitor.
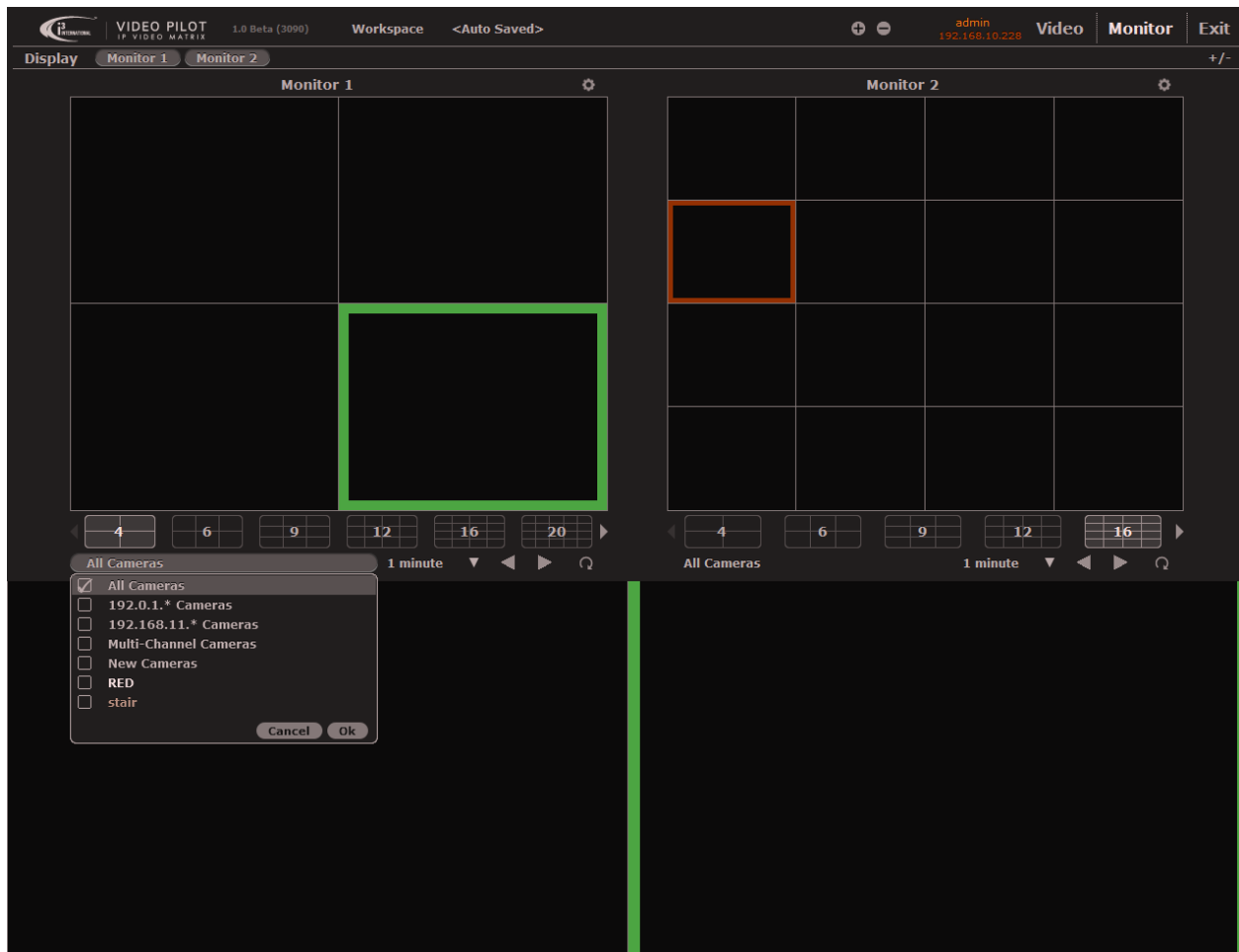
In addition to changing screen displays (See the section Changing Screen Divisions), you may want to rotate through the different channels while viewing fewer divisions at once.

- Click the duration to change how long it takes for the displays to change channels. In this example above, the videos in each rotation will display for one minute each.
- Click the arrows to manually step forward or backward to the previous or next screen rotation.
- Click the rotation symbol to turn automatic rotation off or on. The rotation in the example above is turned on; thus the screens will rotate on this monitor.

Monitor Tools

Monitor Tools is a collection of miscellaneous display options that can be configured for each individual monitor. To modify a monitor's display with Monitor Tools, click on the gear symbol to the top right-hand corner of the corresponding miniature monitor display.
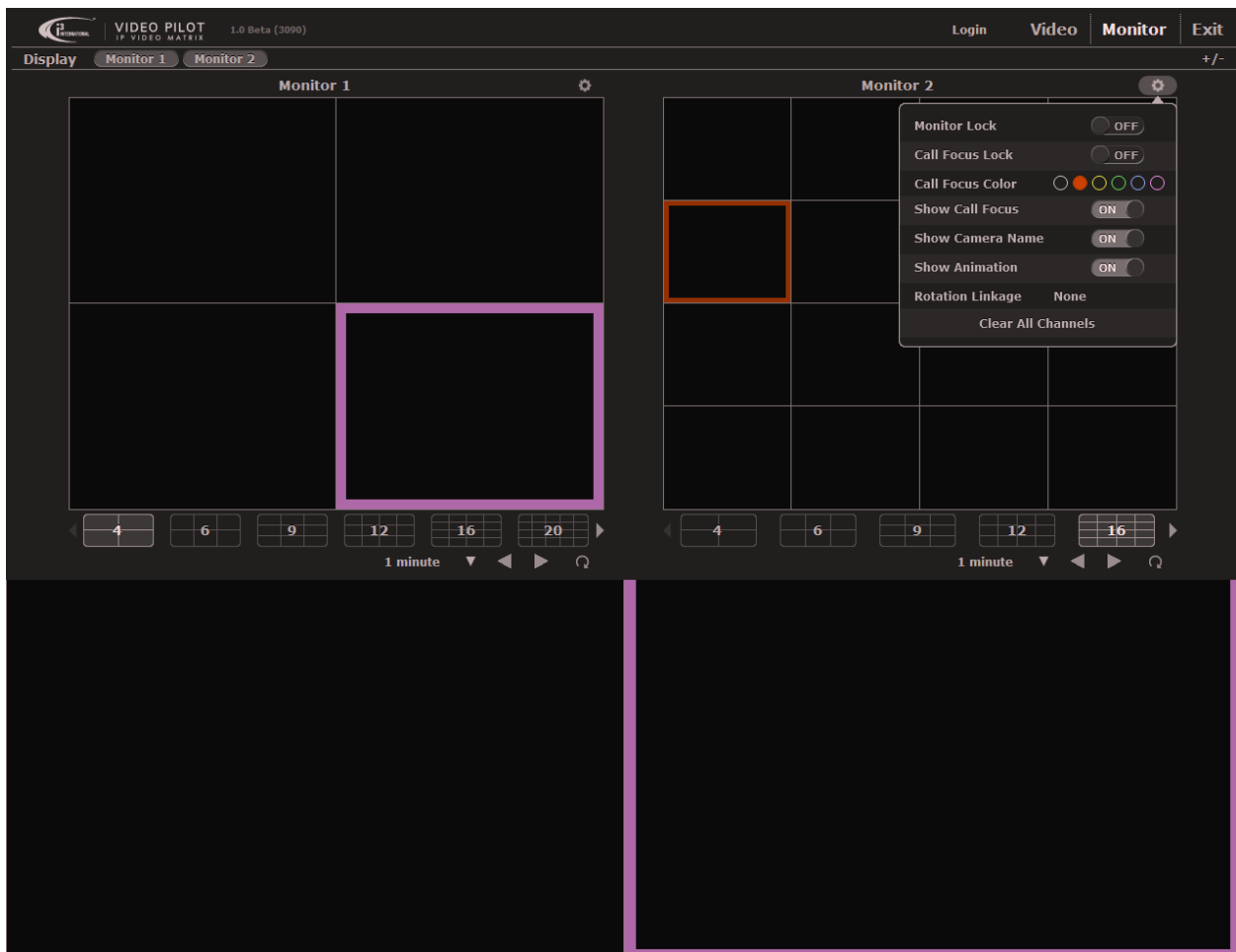
Locking a monitor

I like my current display settings on this monitor. How can I keep from accidentally changing the settings?

Go to Monitor Tools. Click Monitor Lock **ON/OFF** to toggle the lock off or on.

Changing the Call Focus

- *How do I change the color of the Call Focus for one or more monitors?*
- *How do I keep the Call Focus from changing?*
- *Can I hide the Call Focus?*

<u>Read this section if:</u> You would like to make changes to the way Call Focus looks or behaves.

Go to Monitor Tools.

Call focus controls
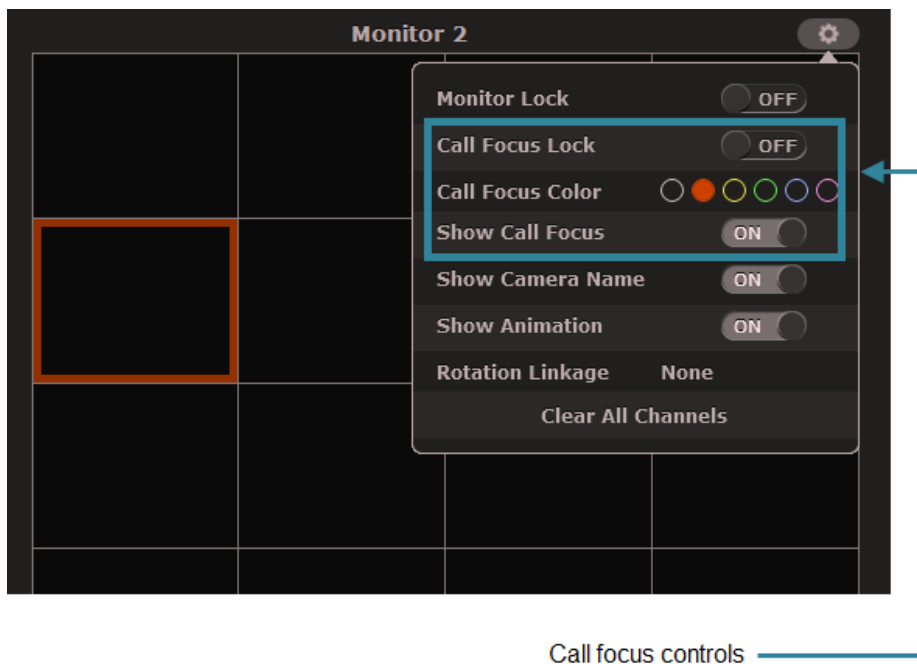
- To Call Focus from changing to another video, click Call Focus Lock ON/OFF to toggle the lock off or on.
- To change the Call Focus color, click on any one of the colored circles next to Call Focus Color. A filled in color means that the Call Focus is currently set to that color.
- Toggle call focus on or off by clicking Call Focus **ON/OFF**.

Additional Monitor Tools settings

How do I show the camera name on my video?
Click Show Camera Name ON/OFF to toggle the camera name display.

How do turn off/on the blinking animation when the video changes on the display?
Click Show Animation On/OFF to toggle the blinking animation on or off.

How do I want to make two or more monitors share the same Rotation Program?
Click on Rotation Linkage and select another monitor from the list. This will make them rotate channels as a group.

I don't want to see the channels on display on one of my monitors. How do I remove them entirely to start again?
Click Clear All Channels.
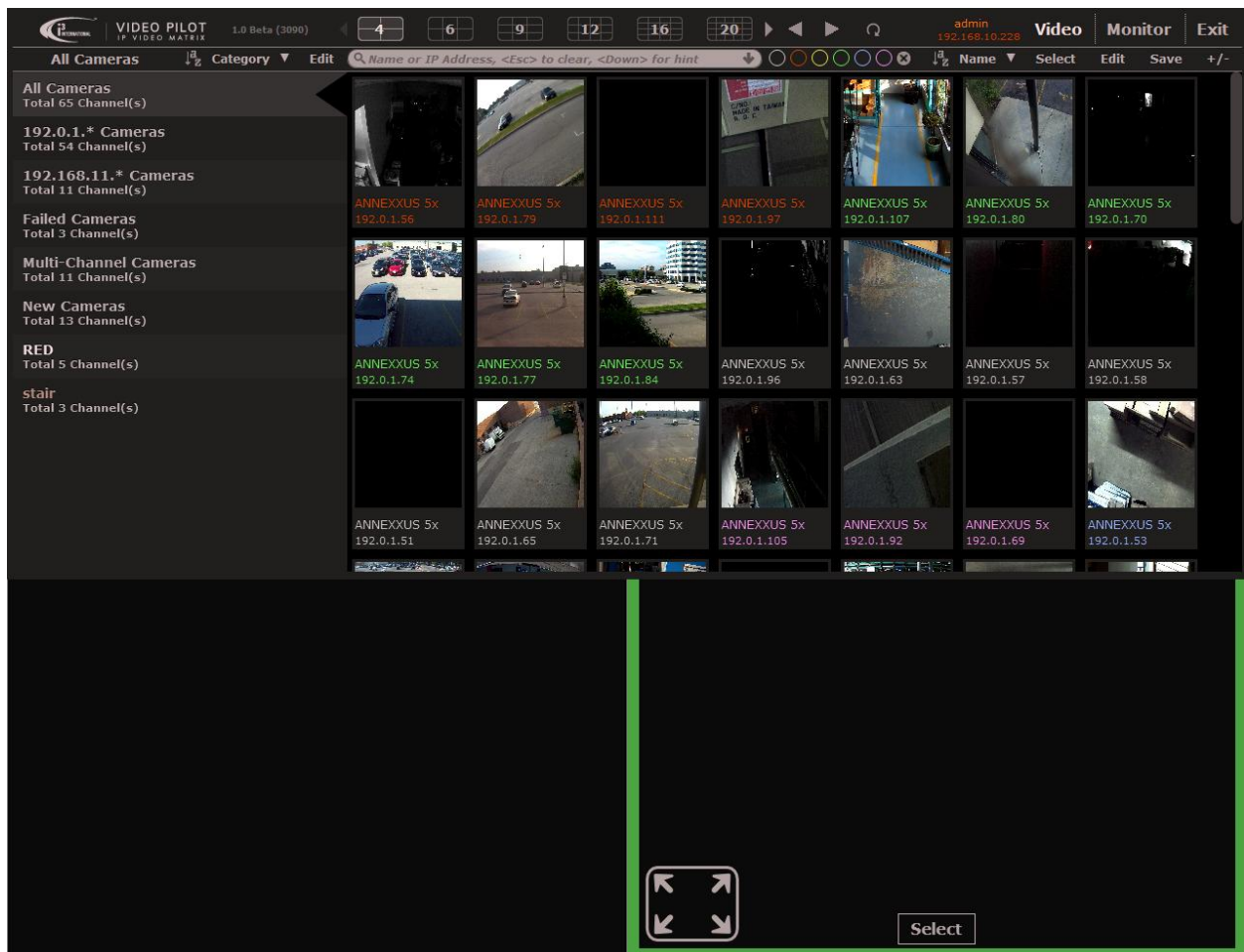
Video configuration panel

Video configuration panel

- *How do I get to the Video configuration panel?*
- *How do I manage my videos?*
- *I have many cameras and they are connected in many different ways. How I can I see what videos are available for display?*

<u>Read this section if:</u> You need to access the Video configuration panel, or if you want to view, find and manage available videos for display on your monitors.

To get to the video panel, move your mouse to either the top or the bottom of the screen to make the control bar appear. (See the section, Navigating the interface.) Once the control bar pops up, click **Video** to display the Video panel.

Upon bringing up the Video panel, a list of the available channels will appear, as grouped by the Collections on the left of the screen. Collections are a way of grouping your video channels together so that they are easier to find and manage.

You can identify each individual *channel* by its name, IP address, thumbnail and colour tag. Also, by mousing over the thumbnail, you can...:


- ... assign the channel to the *Call Focus division* on a monitor by clicking on the **monitor icons**. In the example above, the channel has been assigned to Monitor 2, but not Monitor 1.
- ... assign a color tag to the channel by clicking on the **colored circles**. The color tag is useful for quick visual grouping of channels. Each channel can have one color. In the example above, the channel has a purple tag.
- ... change the name of the channel by clicking the **Edit** button. A text field will appear. Type the new name for your channel. In the example above, the channel is named 'ANNEXXUS 5X.'

You can select channels individually, or select more than one channel by holding down Ctrl on the keyboard and clicking the thumbnails.

Drag and drop the videos onto screen divisions to have them displayed on your monitors.

You can change the properties (**IP Address/Hostname**, **ID** and **Password**) of any channel by clicking **Edit** in the Video Tool bar.
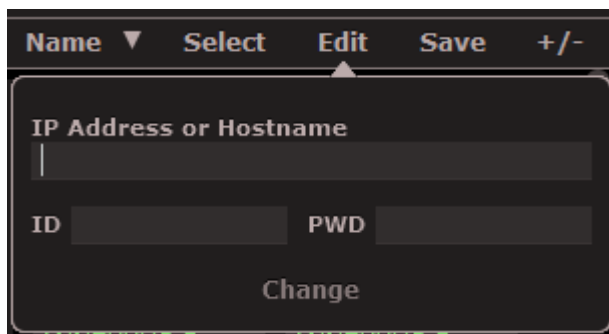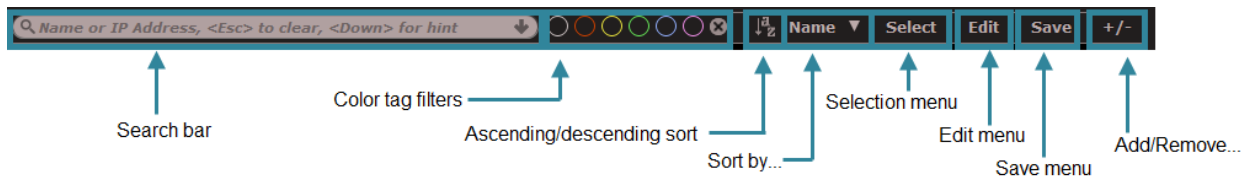

Searching for videos

How do I find a particular channel?

Search for channels using the Video Tools bar. You can make searching easier by filtering or sorting results.

Filtering and sorting channels

- Type in the name or IP of the camera in the **Search bar**. As you type, matching results will show up. Any channels not matching the name or IP address will disappear from the channels list.
- Click on one or more of the **colored circles** to toggle the filtering of color tagged videos. Click the circle with the **'x'** in it to clear the color tag filters.
- Sort channels by **Name**, **IP Address**, or **Color**.
- Toggle **Ascending or Descending** sort.

Selecting search results

I searched the videos and I now have the results I want. What can I do to work with them?

Groups of videos can be selected/deselected using the Select menu.
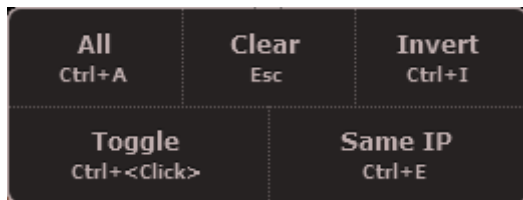
Selection options are:
- **All** to select all results.
- **Clear** to clear the selection.
- **Invert** to select all results which are not currently selected and deselect all results which are currently selected.
- **Toggle** to toggle channels as selected/deselect.
- **Same IP** to select all channels under the same IP address.

Categorizing videos for easier video searching and management

<u>Read this if:</u> You have trouble finding the videos you want, even if you are familiar with searching, or if you want to define more precise categories which better suit you.

Three Collections are automatically generated upon connection with *VPMS*. They are **All Cameras**, **Failed Cameras** and **New Cameras**. **All Cameras** contain all the channels. **Failed Cameras** contain channels which are not producing video and

thus will be useful for troubleshooting issues with cameras or connections to cameras. **New Cameras** contain channels which did not exist during the last connection. *VPMC* will also automatically group cameras by their IP address.

Adding and Removing Collections
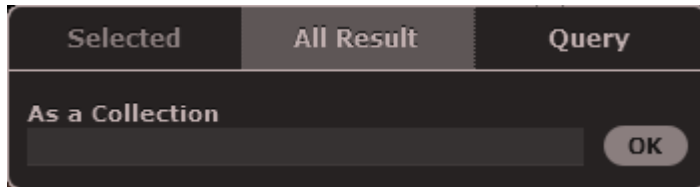
You have the option of saving selected videos as a Collection. Alternatively, click **All Result** to save all the channels found as a result of your search. You can also save the search criteria, rather than the search results under **Query**. (For example, if you typed "doors" and filtered by orange channels, saving a Collection as a query will save the 'doors' keyword and orange tag. The results will change depending on which video names contain 'doors' and which videos are orange colored.)

In any of the cases, type the name of your new collection and click **OK** to save it.

Managing and sorting your Collections

To make searching for collections easier, you can sort the channels, edit the channel names or remove them by clicking the Edit button above the Collections list. Clicking on the **Edit** button will put you into Editing mode.

Mousing over a Collection in Editing mode will allow you to move the collection to the top of the list, up one position on the list, down one collection on the list, or down to the bottom of the list, respectively.
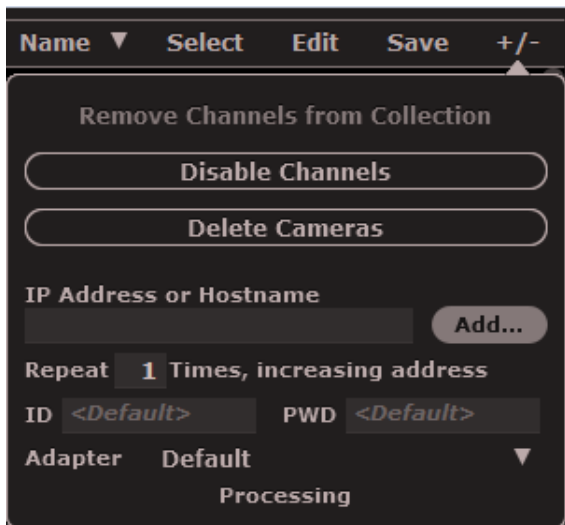
Custom made collections can be renamed or removed. In the example below, 'Offices' is a custom made collection.

Click **Done** when you are finished editing the Collections.

General Video and Collection management options

Add or remove Collections or Channels is by clicking **+/-**.

To disable some channels, as in pause the viewing of live video from certain channels, click **Disable Channels**. Alternatively, to permanently remove some cameras from VPMC, click **Delete Cameras**.

Glossary

C

Call Focus: A selected division indicated by a colored box (configurable.) Any actions taken by the user on that monitor will affect that division, or its contents by default.

channel: Channels are the digital video signals which come from a camera and are sent to Video Pilot Matrix Server and subsequently to Video Pilot Matrix Console.

D

division: A division is essentially a "slot" where video can be displayed using Video Pilot Matrix Console.

V

VPMC: Video Pilot Matrix Console

VPMS: Video Pilot Matrix Server