



Matrox Monarch LCS Radar

Installation and User Guide

Part No.: Y11442-301-01111

Last Updated: May 30, 2018

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CHAPTER

1

Introduction

This chapter provides an overview of the Matrox Monarch LCS Radar central monitoring utility. It includes the supported operating systems and web browsers.

Matrox Monarch LCS Radar overview

Matrox Monarch LCS Radar is a server-based web application that you can use to monitor and control all the Monarch LCS devices on a network. You install Radar on a server machine that has network access and permission to “see” all the network’s Monarch devices. With the Radar application running on the server, open a web browser on a client machine to access the Radar user interface. From there, you can monitor your Monarchs and perform certain basic functions such as rebooting or updating devices.

Supported operating systems and web browsers

Monarch LCS Radar uses a server/client relationship to view and control Monarch devices. System requirements are different for the server and client machines.

Server machine requirements

The server machine has the following requirements:

- Microsoft Windows 10 has been tested and validated for use with LCS Radar.
- Monarch LCS Radar will install on Microsoft Windows 7, Windows 8, or Windows 8.1, but these operating systems have not been formally tested.

Client machine requirements

Since you access the Monarch LCS Radar through a web browser, most common operating systems and web browsers will work, however the following operating systems and browsers have been tested and validated:

- Devices and operating systems:
 - Microsoft Windows machines running Windows 7 or later
 - Apple devices running iOS 10 or later
 - Android devices running Android 6.0 “Marshmallow” or later
- Web browsers:
 - Google Chrome
 - Mozilla Firefox

CHAPTER

2

Installing Matrox Monarch LCS Radar

This chapter describes how to install Matrox Monarch LCS Radar on a server machine, and how to access and log on to the web-based application from client machines.

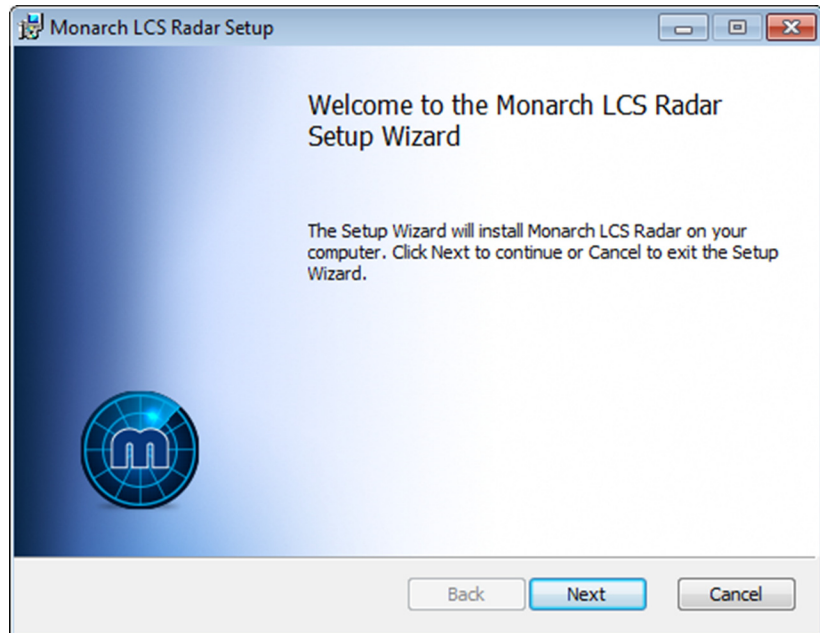
Installing Matrox Monarch LCS Radar

The Monarch LCS Radar installation program is intended for a server machine. You run the installation program to install a command-line application, which must be kept running in the background on the server machine. Client machines cannot log on to Monarch LCS Radar unless the background application is running.

To install Monarch LCS Radar, follow the steps below:

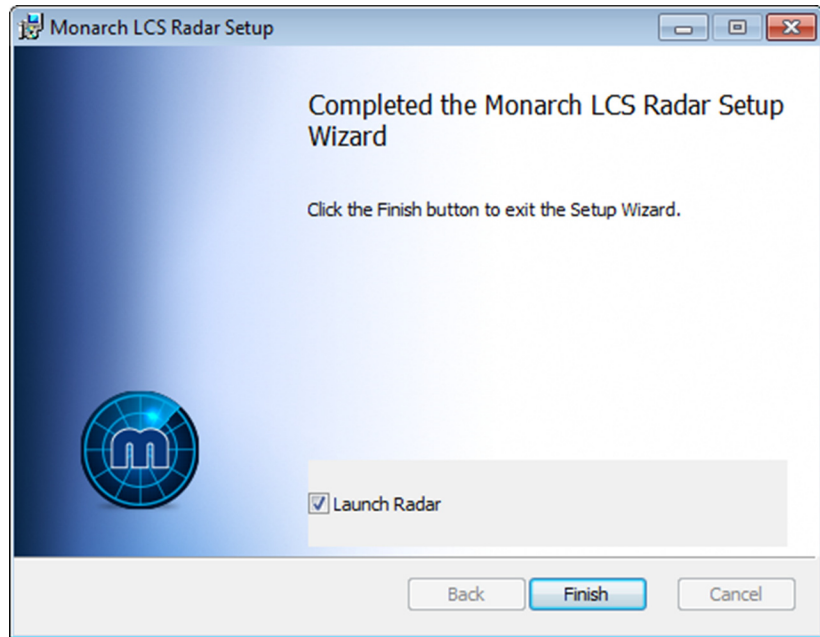
- Step 1.** Download the Monarch LCS Radar installation program from the support page of the [Matrox website](#).
- Step 2.** From the machine that will function as the server machine, run the installation program.

More info: The server machine must have administrator rights, and must have network access to all Monarch devices on the network.



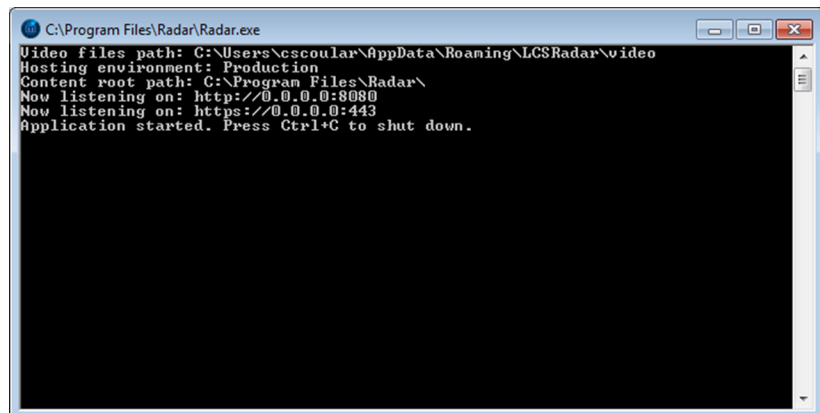
- Step 3.** Click **Next**, accept the license agreement, then follow the instructions in the installation program.

- Step 4.** When the installation is complete, select **Launch Radar**, then click **Finish**.



More info: If you do not allow the installation program to launch LCS Radar automatically, do not forget to launch it yourself after the installation program is complete.

- Step 5.** If you selected **Launch Radar** in the previous step, the command-line application will open.



More info: This window must remain open in the background on the server machine to allow access to LCS Radar. You can close LCS Radar by pressing **Ctrl + C**.

Result of this task: Monarch LCS Radar is installed.

When done, remember: Monarch LCS Radar must be kept running on the server machine at all times for the application to see and control connected Monarch devices.

Logging on to Matrox Monarch LCS Radar

After you have installed Monarch LCS Radar on the server, the command-line application should automatically be running in the background. You can then access the Monarch LCS Radar from your web browser.

To log in to LCS Radar, follow the steps below:

- Step 1.** Open your web browser. For more information see "[Supported operating systems and web browsers](#)" on page 2. .
- Step 2.** Type the server machine's IP address into the web browser's address bar followed by the port number 8080 (e.g. *192.168.12.345:8080*), then press **Enter**.
Step outcome: The Monarch LCS Radar log on page appears.
- Step 3.** Enter the default username and password "admin/admin" then press **Enter**.

Result of this task: You are logged in to Monarch LCS Radar.

When done, remember: Go to the [Settings page](#) to change the default username and password to something more unique and secure.

Uninstalling Matrox Monarch LCS Radar

You can uninstall Monarch LCS Radar like any other program installed on your Windows machine.

- Step 1.** Close the Monarch LCS Radar application by pressing **Ctrl + C** while the command line window is open.
- Step 2.** Go to **Start > Programs and Features**.
- Step 3.** Find **Monarch LCS Radar** from the programs list
- Step 4.** Click **Uninstall**.

CHAPTER

3

Using Matrox Monarch LCS Radar

This chapter describes the Monarch LCS Radar user interface, and explains how to perform key tasks.

Setting up Monarch LCS Radar for monitoring

When you first launch Monarch LCS Radar, you'll need to properly set it up to monitor Monarch devices on your network.

To set up Monarch LCS Radar, follow the steps below:

- Step 1.** If LCS Radar is not already running on your server machine, go to **Start > All Programs > Matrox Monarch LCS Radar**, then click **Start Radar**.
- Step 2.** Open your web browser, and go to the IP address of your server machine while specifying port 8080.
Example: Type `192.168.12.345:8080` then press **Enter**.
- Step 3.** Log in to Monarch LCS Radar.
More info: The default username and password are “admin/admin”. It is recommended that you change your login credentials as soon as possible after your initial login.
- Step 4.** Go to the [Settings page](#) to change your username and/or password from the default “admin/admin”.
More info: You can also set up email alerts for Monarch events.
- Step 5.** Go to the [Discovery page](#) to find Monarch devices on your network.
- Step 6.** Go to the [Groups page](#) to group your Monarch devices into easily manageable categories.
- Step 7.** Go to the [Home page](#) to monitor your Monarch devices and perform the basic functions available.

Tip: If you are accessing LCS Radar from the server machine, you can also use “localhost:8080” instead of the IP address.

Result of this task: You are ready to monitor your Monarch devices.

Home page

The **Home** page is where you can see your network's connected Monarch devices, a live video preview, and perform basic functions such as reboots or updates.

The following graphic shows areas of interest on the **Home** page. Descriptions are provided below the image.

The screenshot shows the Matrox Monarch LCS Radar web interface. The browser address bar displays 192.168.65.106:8080. The navigation bar includes Home, Groups, Discovery, Settings, and Logout. A dropdown menu for 'All' is shown. A search bar is present. A table lists Monarch devices with columns for Current activity, Name and IP, Device time, Serial number, Input A, Input B, and Action. The table rows are color-coded: white for idle, green for encoding/recording, and red for offline. A video preview window shows a live feed from a selected device. A daily schedule section shows events for Thursday. At the bottom, there are buttons for Show/Hide actions and Show/Hide columns, and a footer with a document icon.

Current activity	Name and IP	Device time	Serial number	Input A	Input B	Action
Idle	MonarchLCS 192.168.65.123	2018/02/01 16:56	BR37320	SDI 1920x1080p, 59.94	HDMI 1920x1080p, 59.94	SDI
Encoding Streaming/Recording	MonarchLCS 159 Com 5 192.168.65.214	2018/02/01 16:55	BR37324	SDI 1920x1080p, 59.94	HDMI 1920x1080p, 59.94	SDI
Idle	ObiDan Kenobi 192.168.65.111	2018/02/01 16:55	BR37325	HDMI No video input		No
Offline	MonarchLCS 192.168.65.151	2018/02/01 11:44	BR76391	HDMI 1920x1080p, 60		HDI
Idle	MonarchLCS 188 com 3 192.168.65.188	2018/02/01 06:53	BR76395	SDI 1920x1080p, 59.94		SDI
Offline	SQA MLCS 2 192.168.65.85	2018/02/01 14:27	BR76402	HDMI No video input		No
Offline	MonarchLCS TW 192.168.66.104	2018/02/01 16:53	BT07049	HDMI 1920x1080p, 60		No
Idle	MonarchLCS 192.168.65.107	2018/02/01 16:55	BT07054	SDI 1920x1080i, 29.97		SDI
Encoding Recording/Idle	ghost 192.168.68.170	2018/02/01 16:55	BT07573	1920x1080p, 59.94		SDI
Idle	MonarchLCS 192.168.68.159	2018/02/01 16:55	CB16931	HDMI 1920x1080p, 59.94		HDI

Showing 1 to 10 of 10 entries

Previous 1 Next

Show/Hide actions: Remove from list, Reset, Restore, Reboot, Update

Show/Hide columns: Device time, Serial number, Input A, Input B, Audio, In group, Next event, MAC address, Uptime, Elapsed time

Daily schedule: Thursday

9:45am - 9:59am: test1 event 1 159 15 min Mon-Fri

11:00am - 11:29am: event 2 159 30 min

12:00pm - 12:59pm: Event 3 159 lunch

2:00pm - 2:59pm: Event 4 afternoon 2-3

3:10pm - 3:11pm: Event 5 159 start stop daily

3:30pm - 3:29am: Event 6

1. If you have arranged your Monarch devices into groups, you can filter the [Home page](#) to display your grouped devices only, or to display all of them.

2. This is the video preview of the selected Monarch device. A preview will be displayed when the Monarch is actively encoding, or when the Monarch is idle but has a working video feed connected to it.

Video preview is not displayed in certain cases. For more information, see ["Preview window limitations"](#) on page 10.

3. This is the list of Monarch devices discovered by LCS Radar. The different columns provide details on each device. Colored rows indicate the following:

- **White:** Monarch is idle.

Note: Some anti-virus programs may not allow video preview to be displayed if running in the background.

- **Pink:** Monarch is offline.
 - **Green:** Monarch is encoding (i.e. streaming and/or recording).
 - **Yellow:** Monarch is experiencing an error.
4. These are the different actions you can perform on your Monarchs. Click **Show/hide actions** to expand or collapse the options. Select one or more Monarchs from the list to perform the following actions:
 - **Remove from list** Removes the selected Monarch(s) from the list of devices.
 - **Reset** Resets the selected Monarch(s) to factory default settings.
 - **Restore** Resets the settings on all the selected Monarch(s) except the IP mode (DHCP or Static).
 - **Reboot** Reboots the selected Monarch(s). Settings are not changed.
 - **Update** Updates the selected Monarch(s). If you click **Update**, this button will change to **Stop update**.
 5. These are the different columns you can display in the table. Click **Show/hide columns** to expand or collapse the column headings.
 6. Displays a list of daily scheduled events and Monarch device information.
 7. Displays the Monarch logs. Click **Save** to save the logs to a .csv file.

Preview window limitations

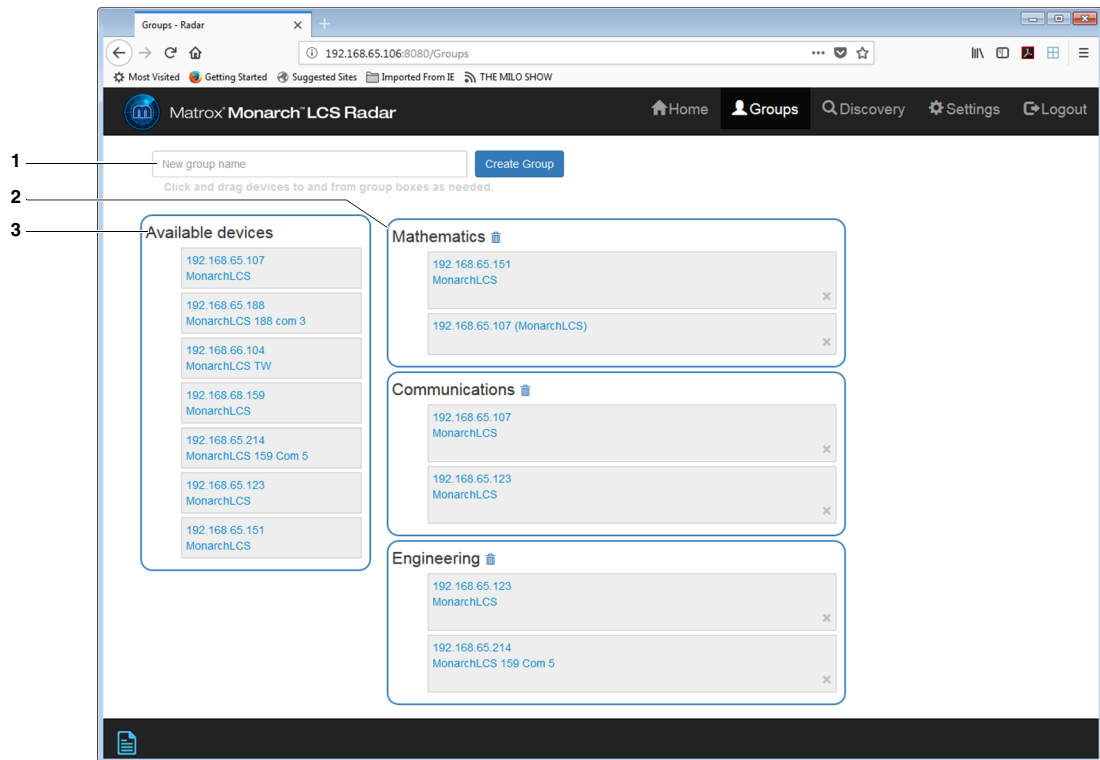
The Monarch LCS Radar video preview is **not** displayed in the following cases:

- When **both** encoders are enabled, and:
 - The encoding resolution of both encoders is greater than 1280 × 720, with one of the encoders set to RTMP mode.
 - The encoding resolution of encoder 1 or encoder 2 is 1280 × 720p @ 50 fps or 60 fps
 - The encoding resolution of both encoders is greater than 1280 × 720, and at least one encoder's framerate is set to 50 fps or 60 fps.
 - The Monarch is in **Switcher**, **Picture-in-Picture**, or **Side-by-Side** modes, the encoding resolution of both encoders is greater than 1280 × 720, and the input resolution is greater than 1280 × 720p @ 50 fps.
- When the Monarch is in **Switcher** mode, with interlaced video at the input, and at least one encoder set to an encoding resolution greater than 1280 × 720.
- When the Monarch is in **Dual-isolated** mode, and the **HDMI Output** setting is set to **From input A or B**.

Groups page

The **Groups** page is where you can group your Monarch devices into categories, making it easier to monitor your devices on the [Home page](#).

The following graphic shows areas of interest on the **Groups** page. Descriptions are provided below the image.

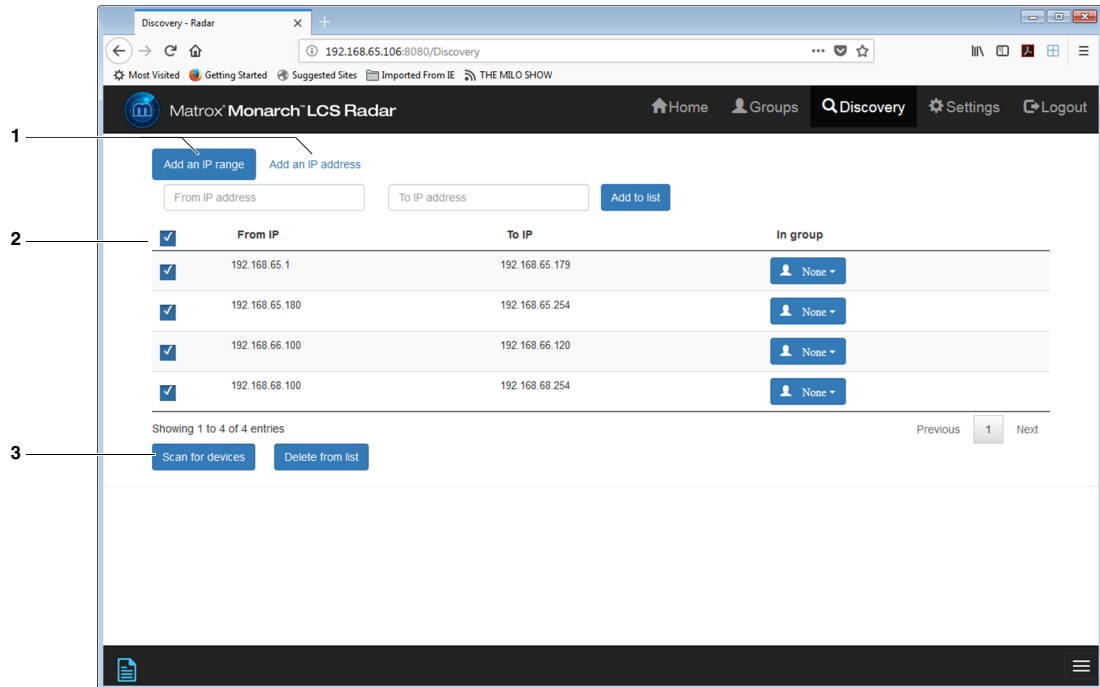


1. Type a group name, then click **Create Group**. The new group will appear in a separate box next to the **Available devices**.
2. The list of created groups. You can drag and drop Monarch devices from one group to another as needed.
3. The list of available devices. You can drag and drop Monarch devices from one group to another as needed.

Discovery page

The **Discovery** page is where you scan for the Monarch devices on your network.

The following graphic shows areas of interest on the **Discovery** page. Descriptions are provided below the image.



1. Add a range of Monarch devices or a single Monarch device for LCS Radar to discover on the network.
 - Click **Add an IP range**, type the “from” and “to” IP addresses in the fields provided, then click **Add to list**.
 - Click **Add an IP address**, type the IP address in the field provided, then click **Add to list**.
2. The list of IP ranges and/or IP addresses you added for discovery. If you select a group from the **In group** column, the discovered devices will be added to that group when you click **Scan for devices**.
3. Click **Scan for devices** to discover (i.e. connect to) the Monarch devices you added to the list. This will add the Monarch devices to the *Home page* so you can monitor them and perform certain actions.

Settings page

The **Settings** page is where you change your login credentials, and set up email alerts for certain Monarch events.

The following graphic shows areas of interest on the **Settings** page. Descriptions are provided below the image.

The screenshot shows the 'Settings - Radar' page in a web browser. The page has a dark header with the Matrox Monarch LCS Radar logo and navigation links: Home, Groups, Discovery, Settings (active), and Logout. The main content area is titled 'Set up email alerts' and includes a list of events to alert on, all of which are checked. Below this is the 'Server configuration' section with fields for Sender, Recipients, and Mail server, each with a corresponding button (Submit, Reset). The 'Change logon credentials' section has fields for Old password, New password, and Re-type password, with a 'Change password' button. At the bottom, the 'Radar Version' is displayed as 1.1.9.0012. Numbered callouts 1 through 4 point to the email alert settings, server configuration, change password section, and radar version respectively.

1. Set up email alerts to inform you of various important events regarding your Monarch devices. Selecting any option automatically saves your settings.
2. Configure the mail server, and enter the sender's and recipient's email addresses.
 - Use commas (,) or semi-colons (;) to add multiple email addresses.
 - Click **Submit** to save your settings.
 - Click **Reset** to clear all server configuration settings.
3. Change your login username and/or password. It is recommended to change your credentials after your initial login to LCS Radar.
4. Displays the current version of LCS Radar.

