

VIEWSCAN

ADMIN GUIDE

V2.1 • 01.2022

Brought to you by:



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ABOUT THIS DOCUMENT

This manual is intended for administrators and users of IPVideo ViewScan and is applicable to hardware and software version 2.1. It includes instructions for using and managing the product on your network. Previous ViewScan experience of networking will be of use when using this product. Some knowledge electrical circuitry and alarm panel connection may be useful in certain types of installations. Later versions of this document will be posted at www.ipvideocorp.com.

LEGAL CONSIDERATIONS

Behavioral monitoring can be regulated by laws that vary from country to country. ViewScan has been designed for direct monitoring or recording of video, you should check the laws in your local region before using this product.

LIABILITY

Every care has been taken in the preparation of this document. Please inform your local IPVideo Corporation office of any inaccuracies or omissions. IPVideo Corporation cannot be held responsible for any technical or typographical errors and reserves the right to make changes to products and manuals without prior notice. IPVideo Corporation makes no warranty of any kind with regard to the material contained within this document including, but not limited to, warranties of merchantability and fitness for a particular purpose. IPVideo Corporation shall not be liable nor responsible for incidental or consequential damages in connection with the furnishing, performance, or use of this material. This product is only to be used for its intended purpose.

INTELLECTUAL PROPERTY RIGHTS

IPVideo Corporation has intellectual property rights relating to technology embodied in the product described in this document. In particular, and without limitation, these intellectual property rights may include on one or more patents or pending patent applications in the US and other countries.

This product contains open source and licensed 3rd party software components.

TRADEMARK ACKNOWLEDGEMENTS

IPVIDEO CORPORATION and ViewScan are registered trademarks or trademark applications of IPVideo Corporation in various jurisdictions. All other company names and products are trademarks or registered trademarks of their respective companies.

EQUIPMENT MODIFICATION

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes will invalidate all applicable regulatory certifications and approvals.

DISPOSAL AND RECYCLING

When this product has reached the end of its useful life, dispose of it according to local laws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.

RESOURCE REQUIREMENTS

Minimum

OS: Windows
CPU: i5 or equivalent AMD
Memory: 8Gb
Storage: 256 Gb
Networking: 100 Mbps
Screen: 15 in, 1920 x 1080

Recommended

OS: Windows
CPU: i7 or equivalent AMD
Memory: 12Gb
Storage: 1 Tb
Networking: 100 Mbps
Screen: 17 in, 1920 x 1080

SUPPORT

Should you require any technical assistance, please contact your IPVideo Corporation Authorized Reseller. If your questions cannot be answered immediately, your reseller will forward your queries through the appropriate channels to ensure a rapid response. If you are connected to the Internet, you can download user documentation and software updates.

Technical Support via Telephone: (631) 647-9970

Technical Support via Email: techsupport@ipvideocorp.com

Live technical support is available Monday through Friday (excluding holidays) between the hours of 8 AM and 5 PM Eastern Standard Time.

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INTRODUCTION

ViewScan is the most technologically advanced passive walk-through Concealed Weapons Detection System. Its easy-to-use, web client displays and tracks those who are carrying threat objects.

ViewScan's sensor technology accurately detects the location and number of threat objects such as knives, guns and razor blades, while ignoring personal artifacts like coins, keys and jewelry; it can also detect and locate threat objects which have been covered or masked.

Every person passing through the portal is scanned and archived with the following data:

- Snapshot image of the person
- Date and time
- Threshold settings
- Sensor readings
- Graphical display.

INCLUDED PARTS

Premium:

- 1x Laptop w/ power supply
- 1x PoE switch w/ power supply
- 3x Ethernet CAT-6 cables
- **All Pro & Basic Parts**

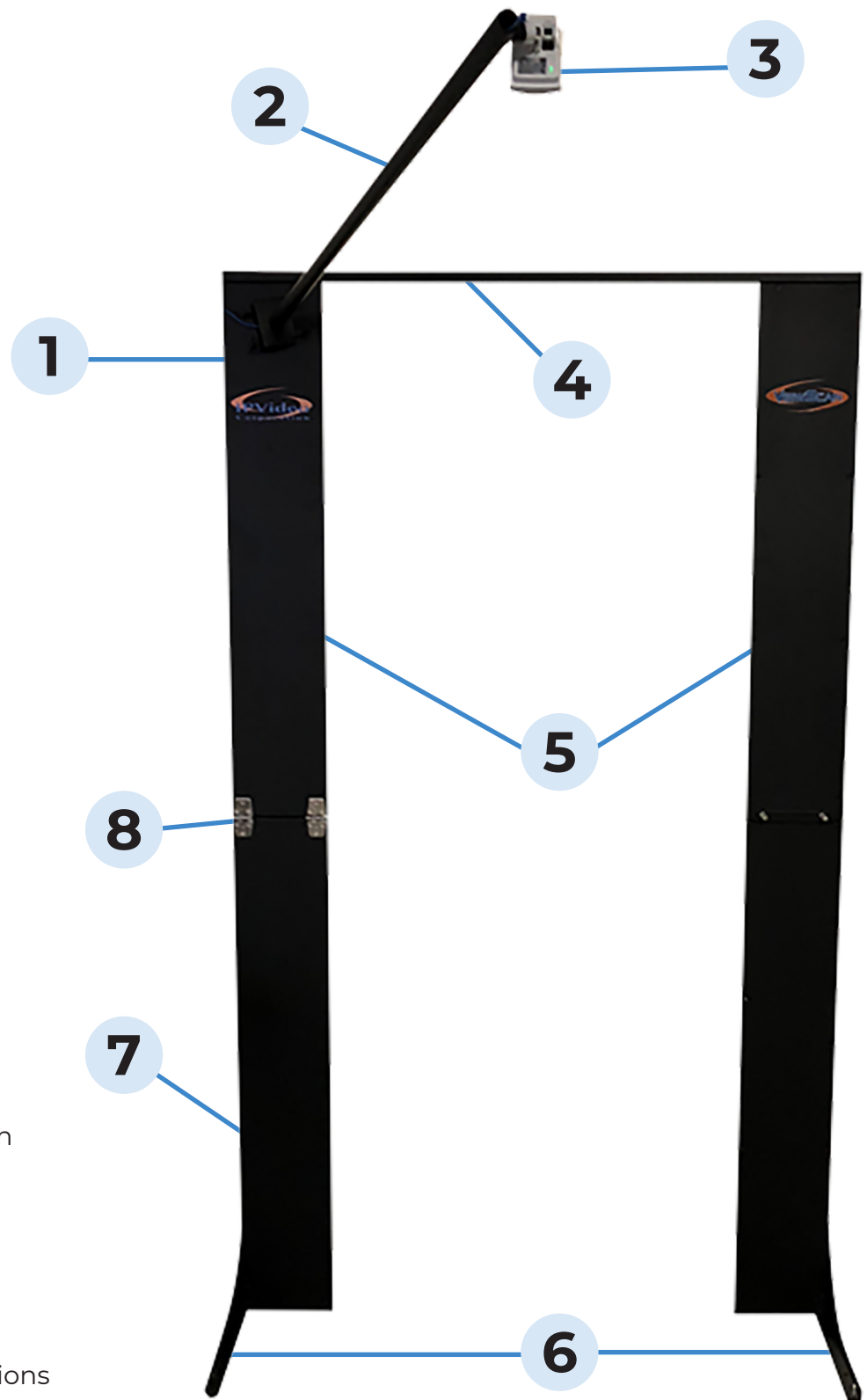
Pro:

- 1x Camera boom
- 1x PoE camera
- **All Basic Parts**

Basic:

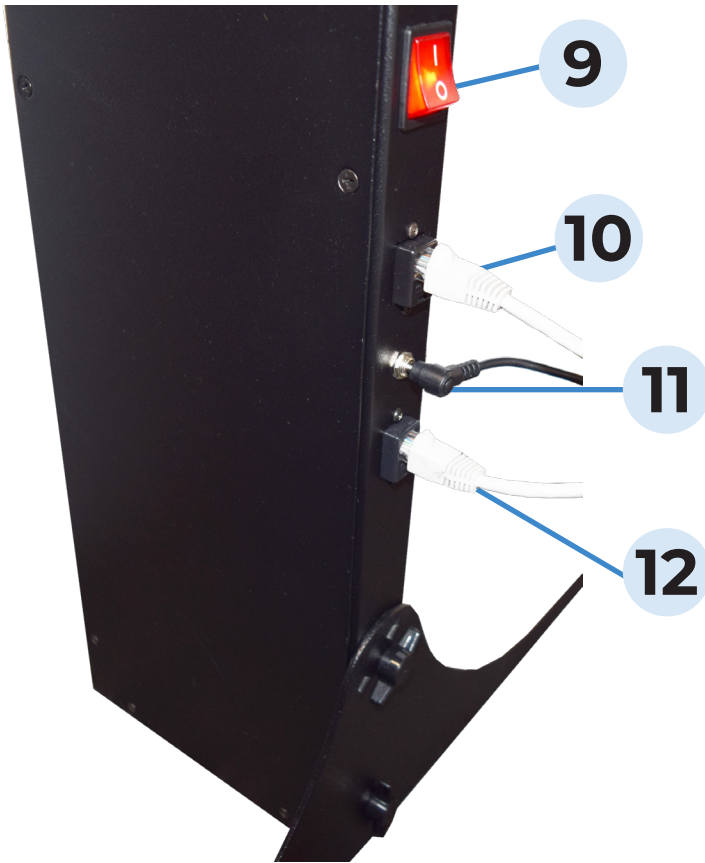
- 2x ViewScan monolith pillars
- 2x ViewScan feet
- 1x ViewScan brace crossbar bottom channel
- 1x ViewScan brace crossbar cover
- 1x ViewScan power supply
- 1x C7 Power Cable
- 6x Leveling screws for feet and monolith
- 4x Large threaded wing screw for legs
- 4x Black thumb screws for camera boom
- 4x captive thumb screws for cross bar
- 4x captive thumb screw for monoliths
- 1x Traveling case (Optional)
- 1x Handheld wand

HARDWARE OVERVIEW



1. Camera Connection Patch
2. Camera Boom
3. IP Camera
4. Bridge
5. Portal
6. Feet
7. Power and Data Connections
8. Hinge

7 Power and Data Connections Exploded View



- 9. Power Toggle Switch
- 10. Camera Data Connection
- 11. Power Input (12v)
- 12. Portal Data Connection
- 13. Camera Data Connection to Portal

1 Camera Data Connection Exploded View



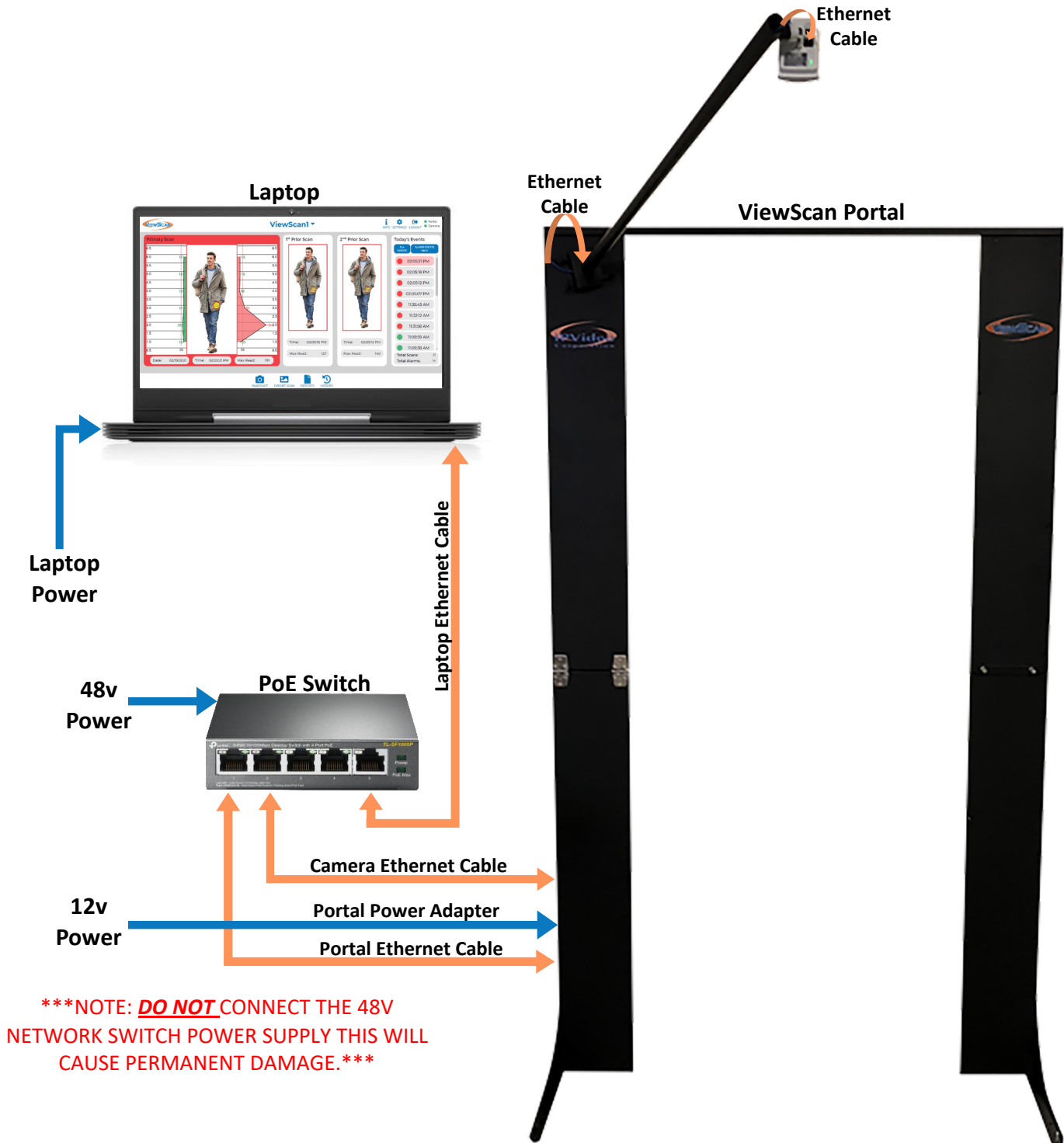
Included Parts

- 4x Leveling screws for feet
- 4x Large thread wing screw for legs
- 4x Thumb screws with spacers for camera boom
- 4x Narrow thumb screws for cross bar
- 4x Silver or black thumb screws for monoliths
- 1x Data cable for cross bar connection
- 2x Ethernet patch cables *(3x)
- 2x ViewScan monolith pillars
- 2x ViewScan feet
- 1x ViewScan brace crossbar bottom channel
- 1x Camera & Boom Arm
- 1x ViewScan brace crossbar cover
- 1x ViewScan power supply
- 1x Laptop*
- 1x Laptop power supply *
- 1x PoE switch *
- 1x PoE switch power supply *
- 1x PoE camera *
- 1x Traveling case *

* Optional Component

CONNECTION OVERVIEW

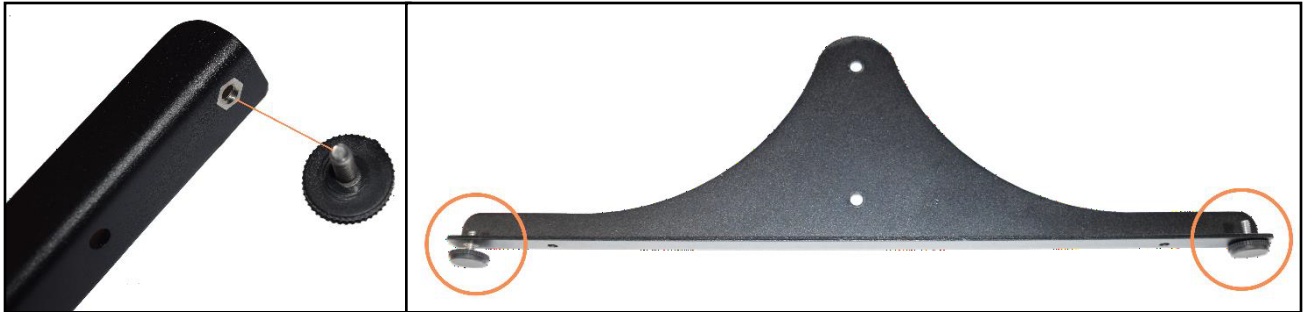
This diagram illustrates a Pro / Premium configuration with all provided equipment. Alternate networked configurations are available. Please consult your Authorized ViewScan Dealer for details.



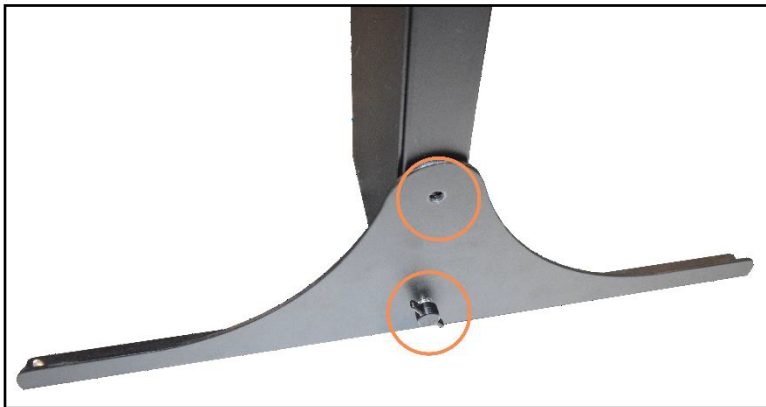
VIEWSCAN ASSEMBLY

If your ViewScan uses a trolley attachment rather than feet, please follow the **Trolley Setup on page 16**.

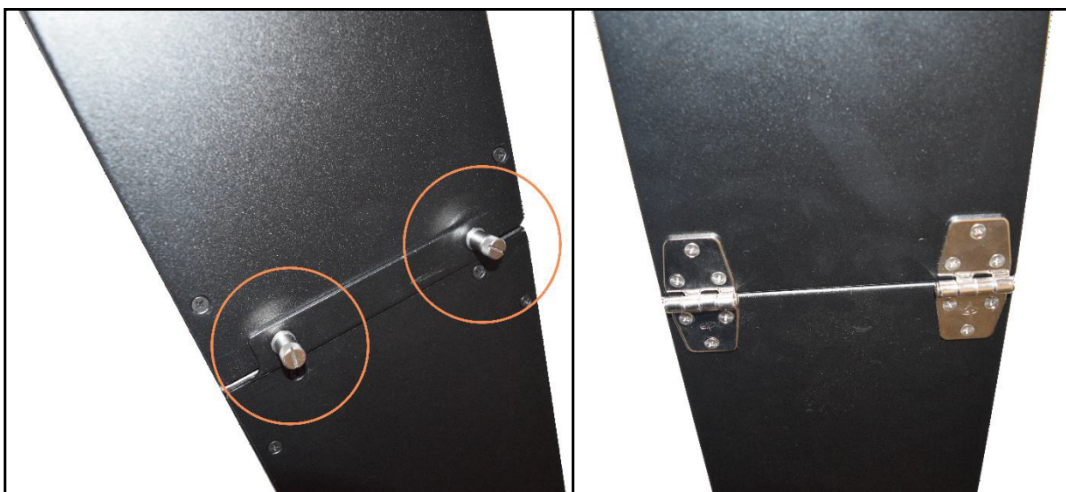
1. Install leveling screws in ViewScan feet.



2. Mount ViewScan feet to ViewScan monolith pillars using large thread wing screws.

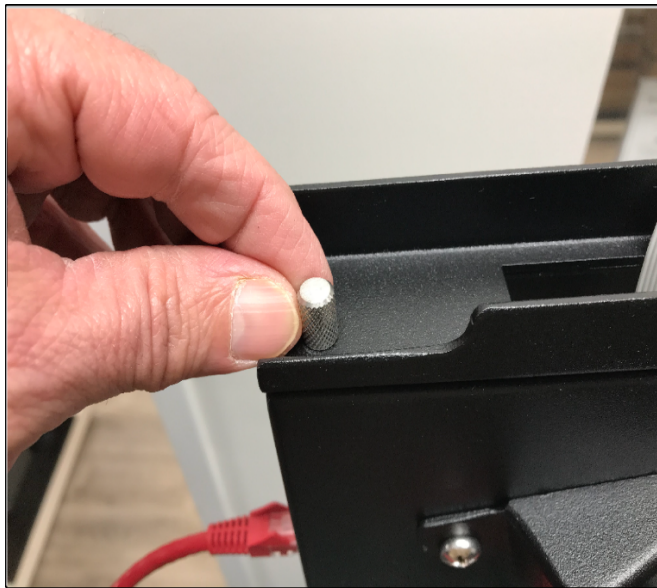


3. Unfold ViewScan monoliths and install silver captive thumb screws to secure them in the unfolded position

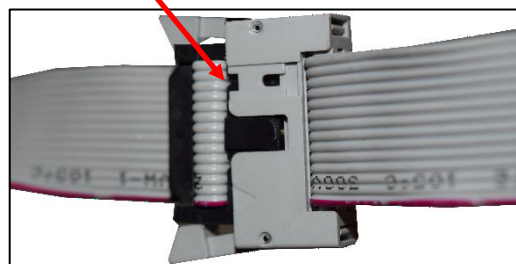
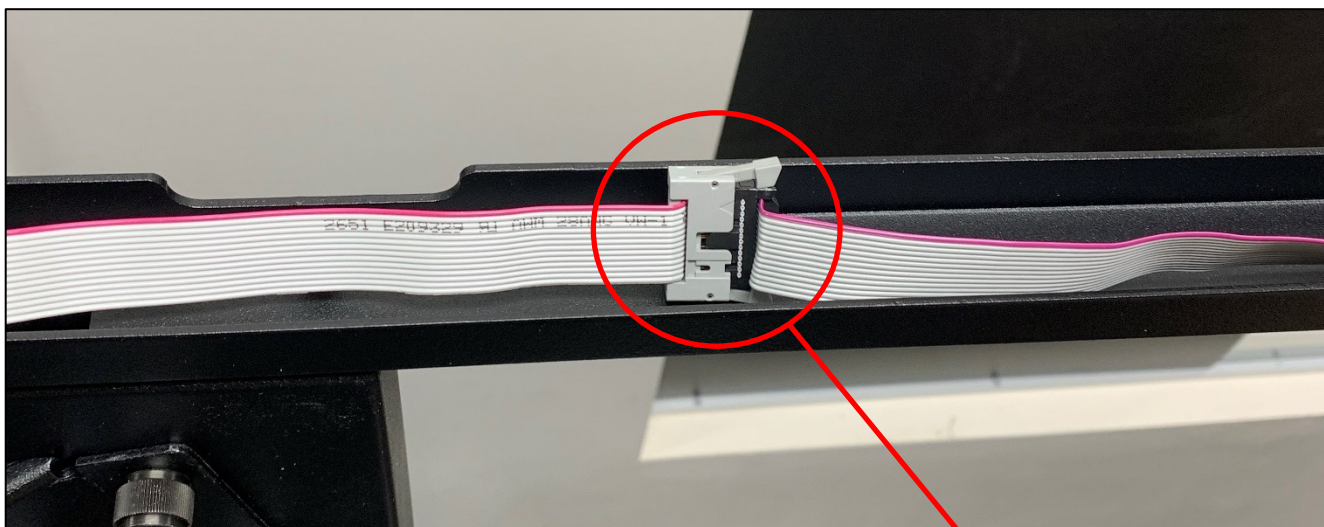


VIEWSCAN ASSEMBLY

4. Feed the cables through the ViewScan brace crossbar bottom channel on either side in the provided cutout.
5. Connect top crossbar to Monolith using x4 silver Thumb screws.

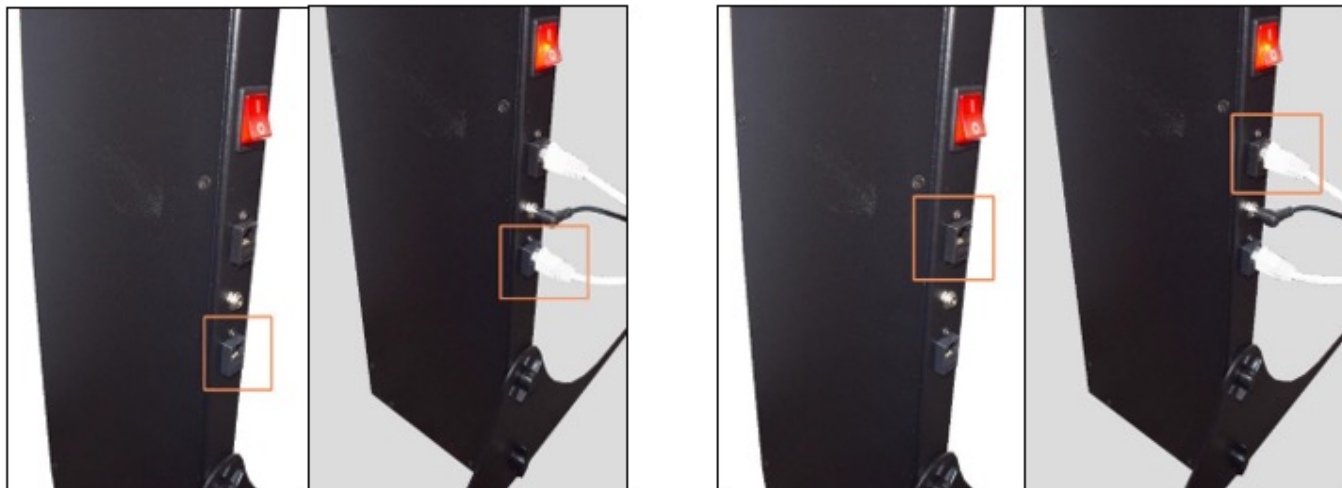


6. Connect cables on either side of the ViewScan brace crossbar with the data cable.

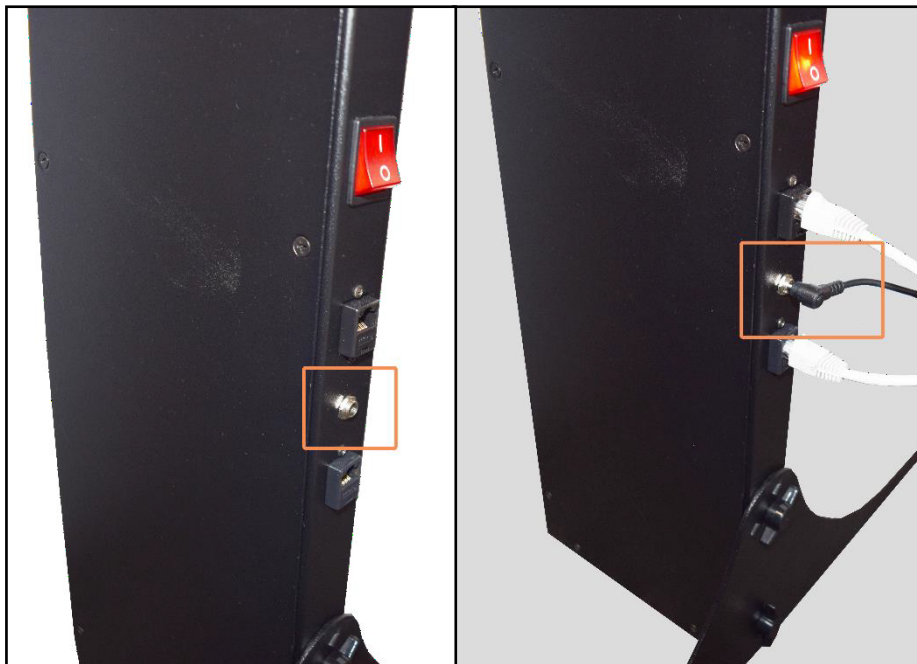


VIEWSCAN ASSEMBLY

- 7. Scanner Network Connection:** Plug an ethernet cable into the ViewScan monolith's top RJ45 terminal and terminate into either the provided PoE network switch (Premium) or customer's local network (Pro).
- 8. Camera Network Connection:** Plug an ethernet cable into the ViewScan monolith's bottom RJ45 terminal and terminate into either the provided PoE network switch (Premium) or local network (Pro).



- 9.** Connect the provided 12V DC power supply into the ViewScan. **Ensure that it is the scanner power supply and not the block meant for the ethernet switch (48V Power Supply).**



If using a battery powered ViewScan, please follow the Battery Setup Guide on page 53.

VIEWSCAN ASSEMBLY

10. Turn on ViewScan power using the switch located on the side of the unit.

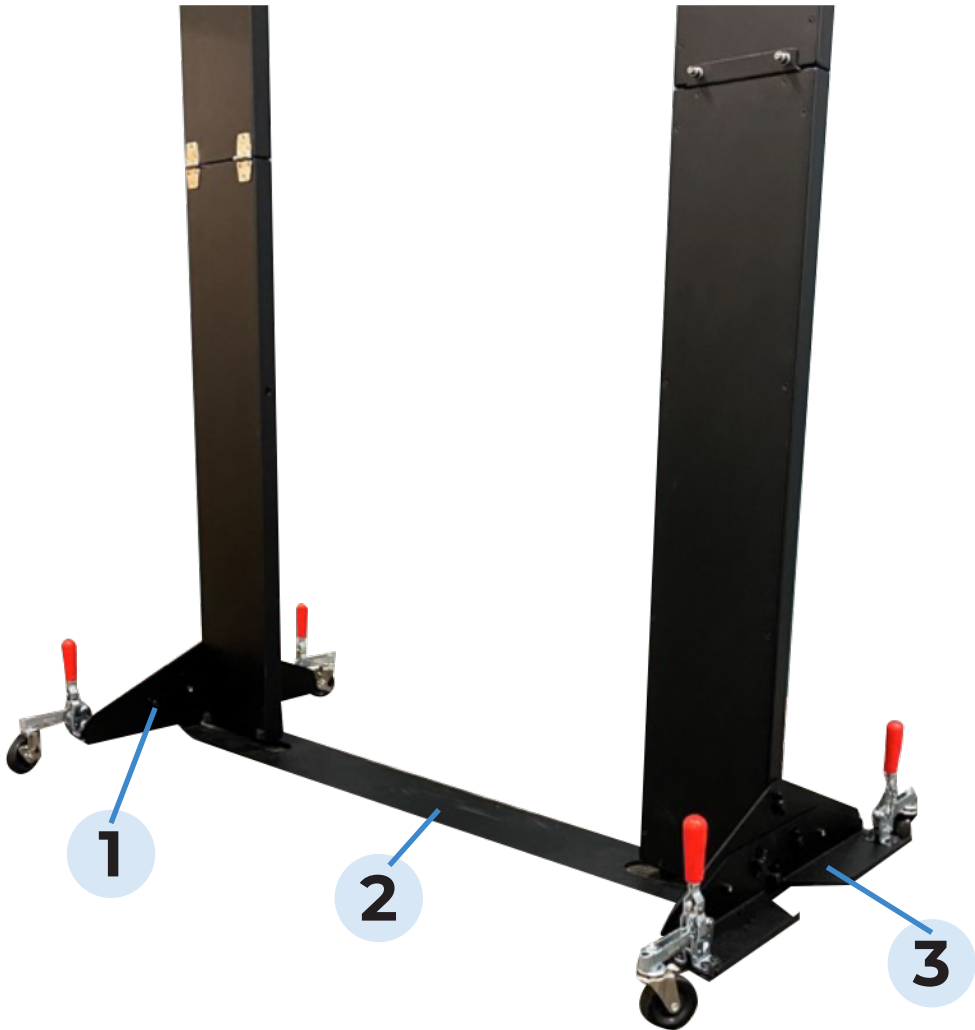


WARNING: IF YOU INCORRECTLY CONNECT THE 48V ETHERNET SWITCH POWER SUPPLY TO THE VIEWSCAN MONOLITH IT WILL CAUSE IRREVERSIBLE INTERNAL DAMAGE AND YOU WILL REQUIRE A SERVICE CALL TO REPLACE DAMAGED PARTS. THE VIEWSCAN WILL NOT OPERATE AT THIS VOLTAGE.

ON VIEWSCAN UNITS WITH SERIAL NUMBERS 10DS20092434 AND HIGHER, THERE IS AN OVER VOLTAGE PROTECTION BOARD WHICH WILL PREVENT SUCH DAMAGE. IF THE 48V POWER SUPPLY IS PLUGGED IN THE POWER SWITCH WILL FLASH UNTIL IT IS REMOVED IF IT IS SWITCHED TO THE “ON” POSITION. REMOVE THE INCORRECT POWER SUPPLY AND USE THE SUPPLIED 12V POWER SUPPLY.

TROLLEY HARDWARE OVERVIEW

- 1. Trolley Version Leg
- 2. Cross Brace
- 3. Castor Bracket



Included Parts
2x Trolley Version Feet
2x Caster Bracket
1x Cross Brace
12x Thumb Screw

TROLLEY ASSEMBLY

1. Shut down the ViewScan device and unplug all the cables.



2. Gently lay the ViewScan down with the camera boom facing up.



TROLLEY ASSEMBLY

3. Take out the 2 thumb screws that hold the leg to the ViewScan and remove it. Repeat this process for the leg on the other side of the ViewScan as well.



4. Gently lift the ViewScan and attach the new trolley leg to the ViewScan with the thumb screws you removed previously. Repeat this process for the leg on the other side of the ViewScan.



TROLLEY ASSEMBLY

5. Stand the ViewScan back up and proceed to the next step.
6. Place the cross brace between the two ViewScan sides.

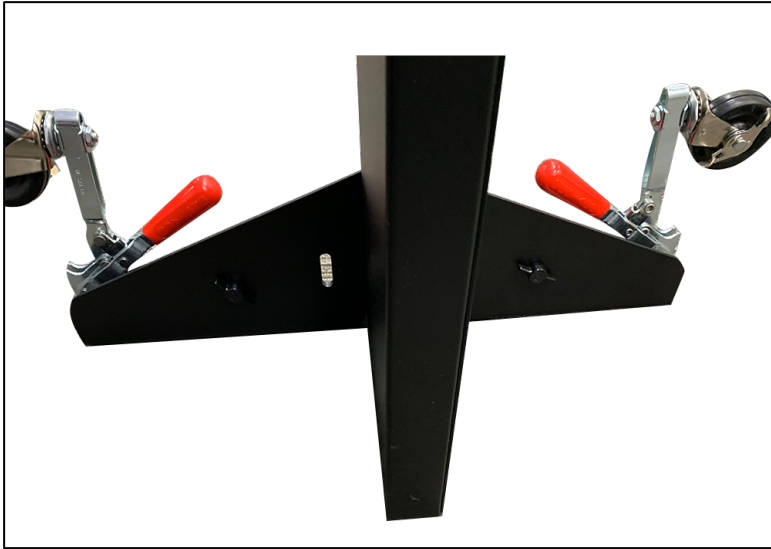


7. Place the bracket with the wheels on the newly installed legs.



TROLLEY ASSEMBLY

8. On the back side of the leg, use two of the provided thumb screws to attach the bracket to the leg. Repeat this process for the other side of the ViewScan.



9. Use two of the provided thumb screws to attach the cross brace to the leg. Repeat this process for the other side of the ViewScan.

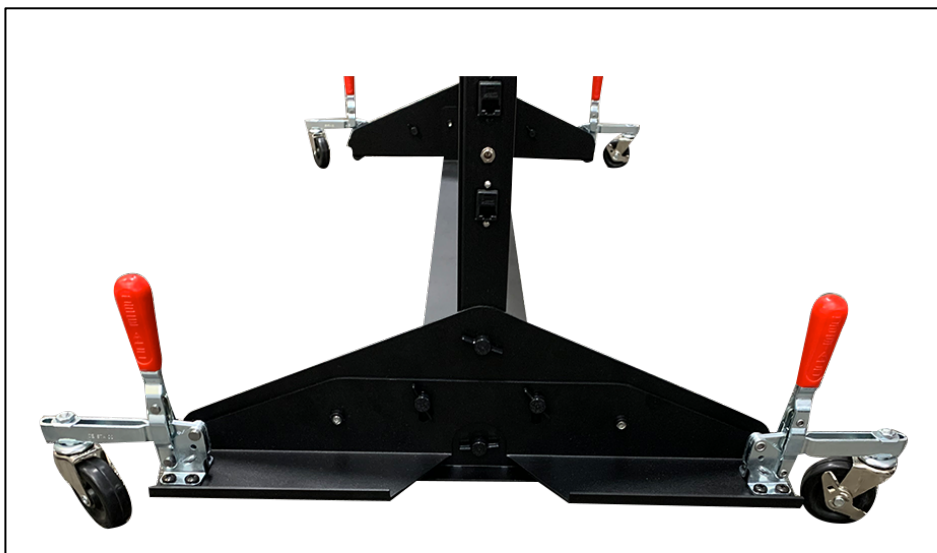


TROLLEY ASSEMBLY

- 10.** At this point, the trolley is assembled and prepared for mobility. To lower the wheels, push the red handles in opposite directions until they click into place. Repeat this process for the other side of the ViewScan. When all four of the wheels are clicked into place, the ViewScan is ready to be moved.

Once the ViewScan has reached desired placement of deployment raise the wheels.

Important: Be sure to raise the wheels for proper scanning alignment.



CAMERA ASSEMBLY

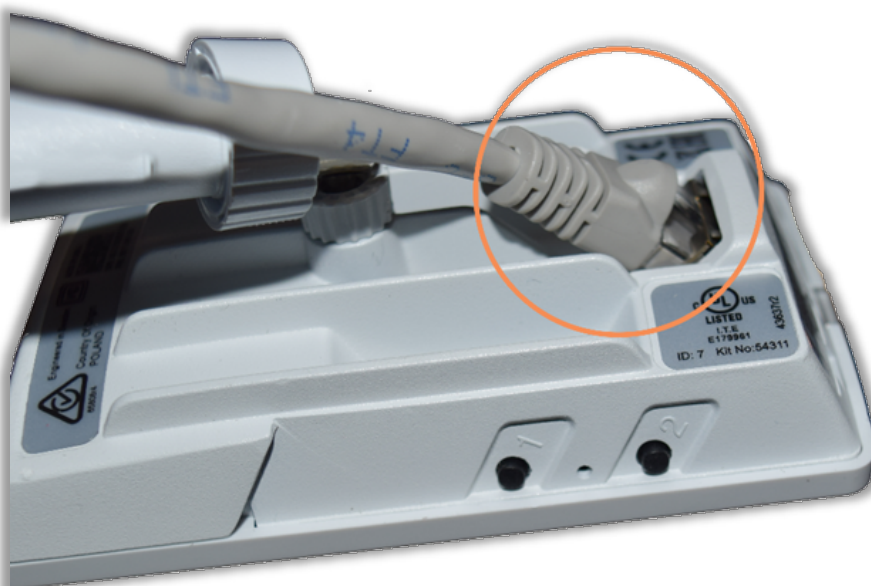
A camera is included in the **Pro** and **Premium** package purchase options.

NOTE: The system does not require a camera and will use a placeholder image if no camera is assigned.

1. Attach the camera boom to the pillar that has an ethernet jack. Use the large black knurled thumb screws. This can be swapped to the other side if requested. Fix pagination issues.



2. Connect the ethernet cable running through the boom to the side of the ViewScan monolith next to the boom mounting location.



CAMERA ASSEMBLY

To make full use of the ViewScan System a complete view of the monolith must be visible in the camera's frame.

For Pro or Premium users:

- Please login into the webpage of your camera to see the current view.
- Physically rotate the camera so the monolith is facing horizontal like either frame below.



- Check the total 90° clockwise turns the camera would need to be perpendicular [90, 270].
 - This is required for later software alignment.



OR



For Other Cameras:

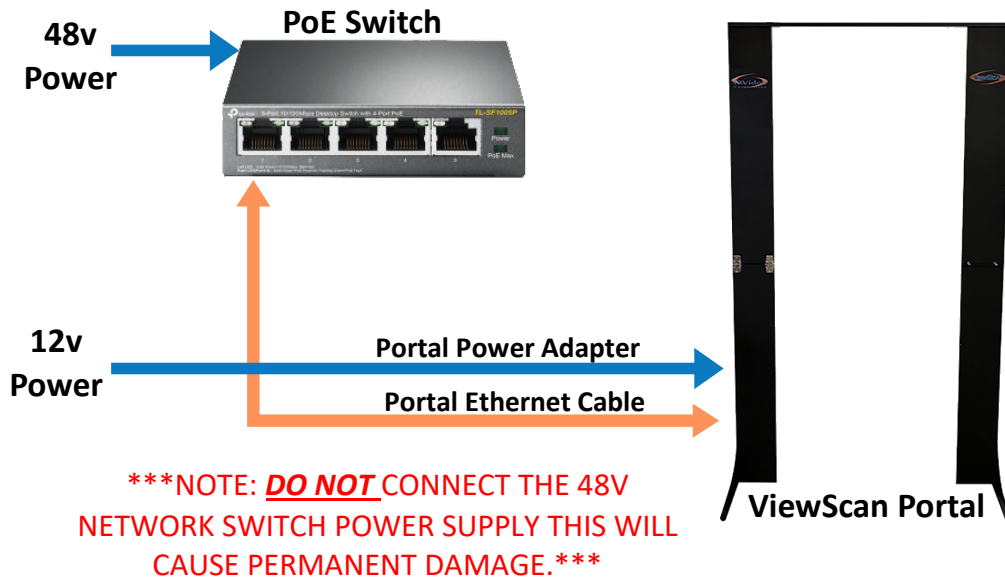
- Install the camera in a location (ex: On a wall/ceiling) so that it faces the monolith
- The system can rotate the image if the camera is not oriented perpendicular like above.
- For best results ensure the camera is at least at the same height as the top of the monolith and at least 4ft away.

NETWORK SETUP

To make full use of the ViewScan System a complete view of the monolith must be visible in the camera's frame.

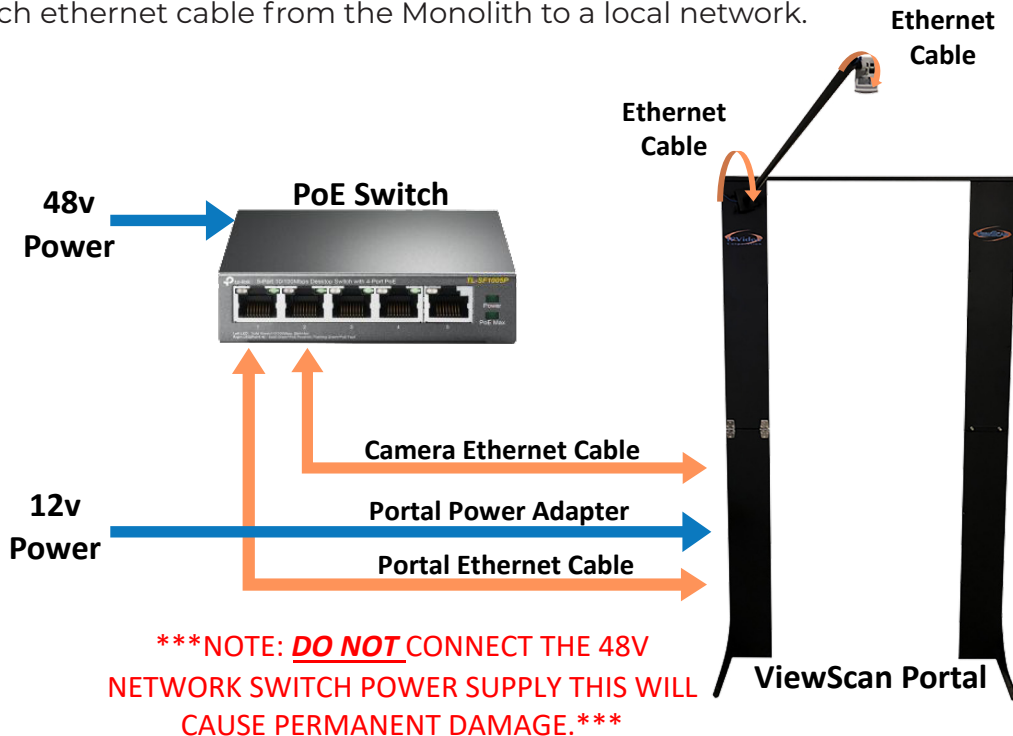
Basic

Connect the upper ethernet cable from the Monolith to a local network.



Pro

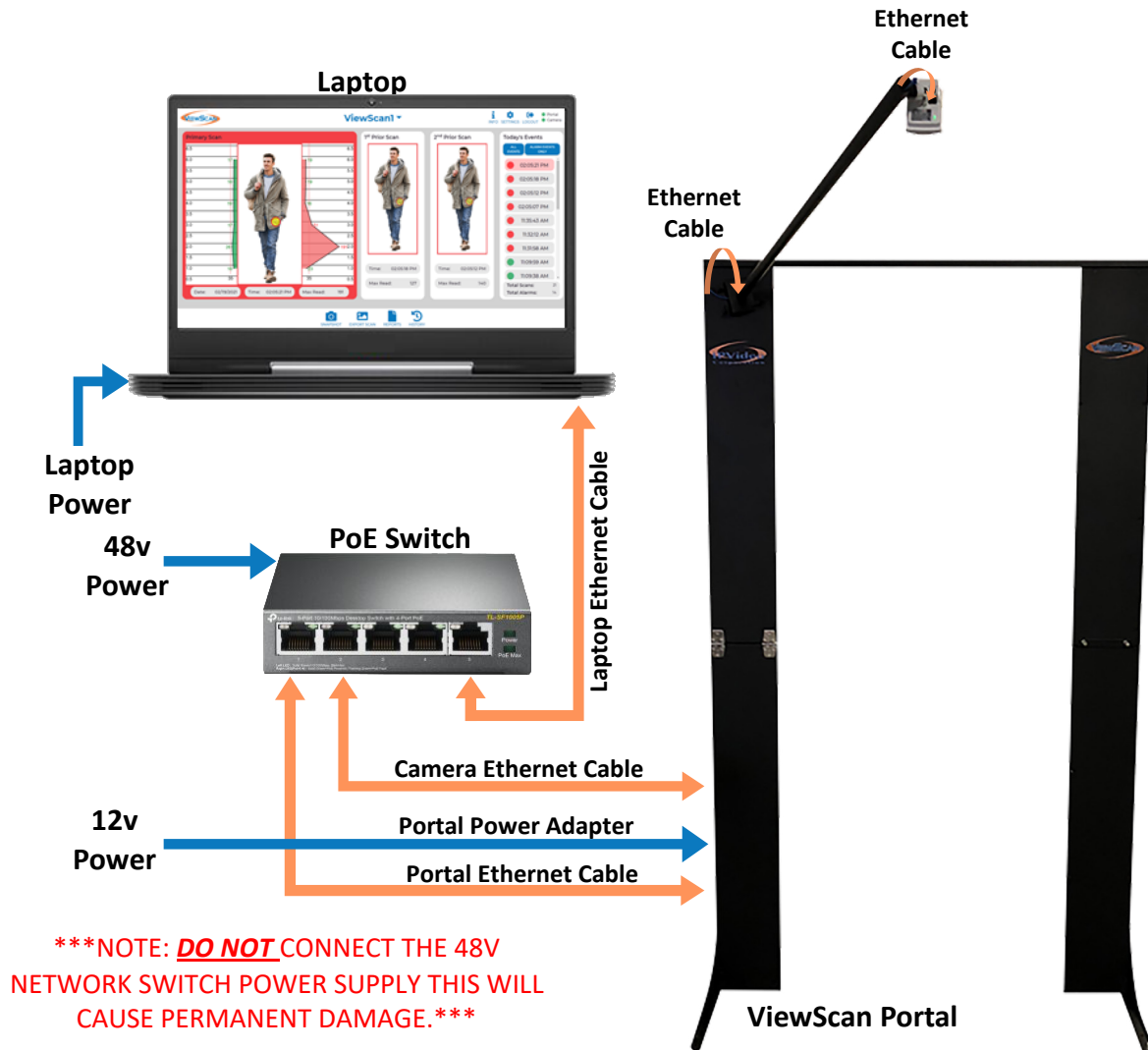
Connect each ethernet cable from the Monolith to a local network.



NETWORK SETUP

Premium

Connect each ethernet cable to the provided PoE network switch.



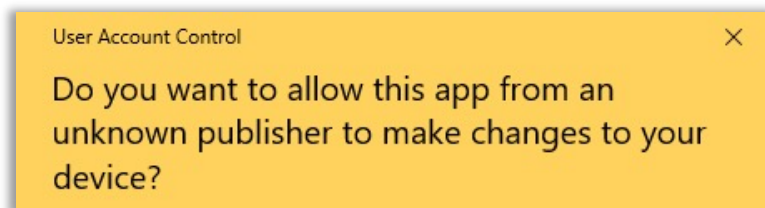
SOFTWARE INSTALL INSTRUCTIONS

This installation guide is only required for those who purchased the PRO or BASIC package or for those who wish to install ViewScan on a separate machine.

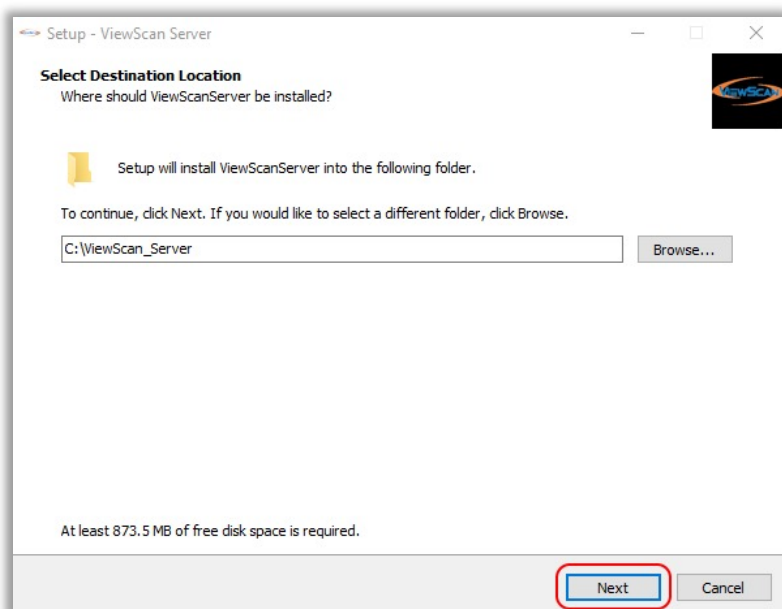
1. Run the supplied installer. If no installer has been supplied to you, please download the **ViewScan 2.1 Installer** using this link: <https://ipvideocorp.com/viewscan-downloads/>



2. Allow the installer to make changes. **Yes.**

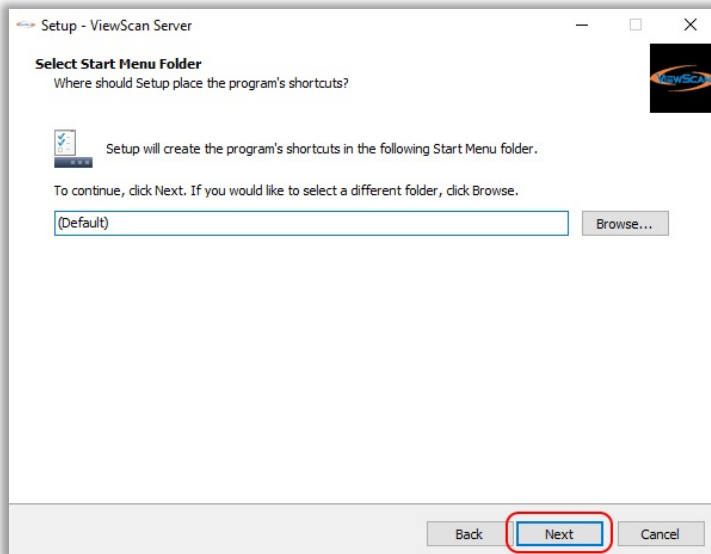


3. Leave the C: drive as the install folder. **Next.**

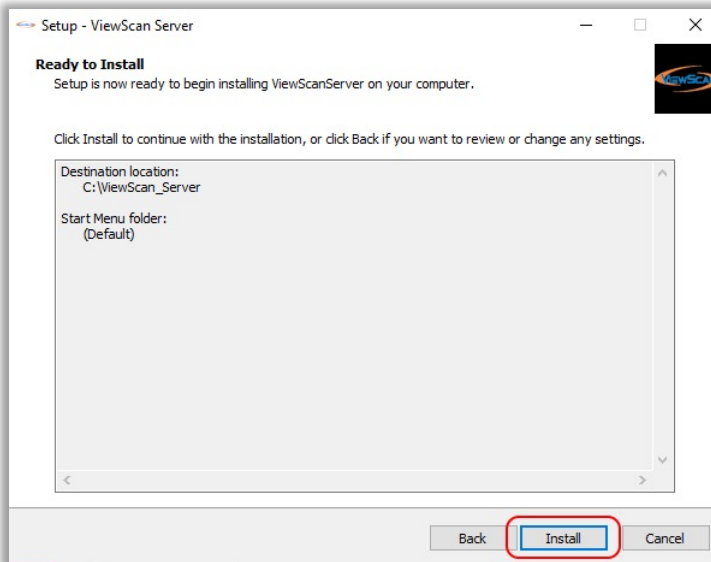


SOFTWARE INSTALL INSTRUCTIONS

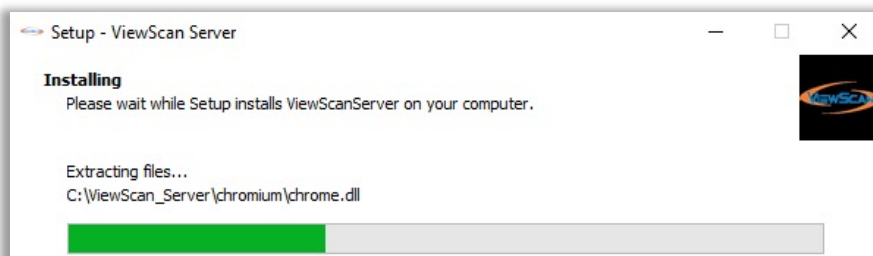
4. Next.



5. Install.

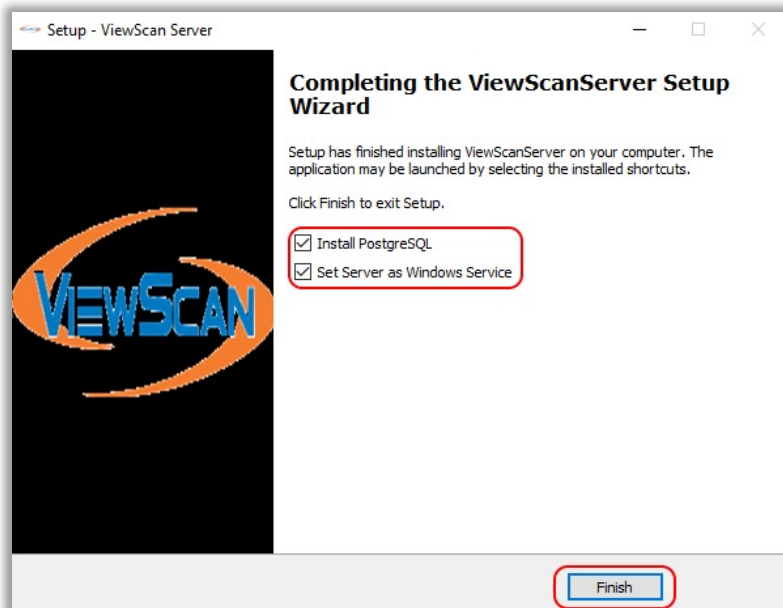


6. Leave the C: drive as the install folder. Next.

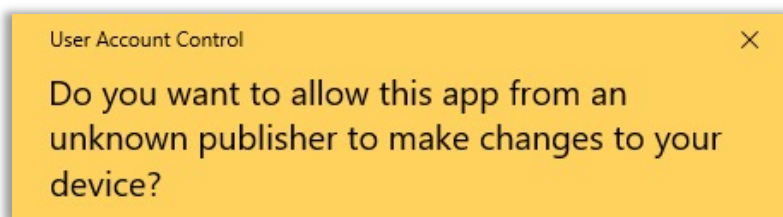


SOFTWARE INSTALL INSTRUCTIONS

7. Leave the two checkboxes selected. **Finish.**



8. Allow Postgre SQL 12 to install. **Yes.**



9. Allow the installation to complete.
10. Once complete, allow the final script menu to run.

Post Install Check

The application should now be installed, and 3 shortcuts will have been placed on the desktop:

1. ViewScan Controller, Find Camera, Find Scanner

Name	Date modified	Type	Size
 Find Camera	5/12/2021 2:28 PM	Shortcut	1 KB
 Find Scanner	5/12/2021 2:28 PM	Shortcut	1 KB
 ViewScan Controller	5/12/2021 2:28 PM	Shortcut	1 KB

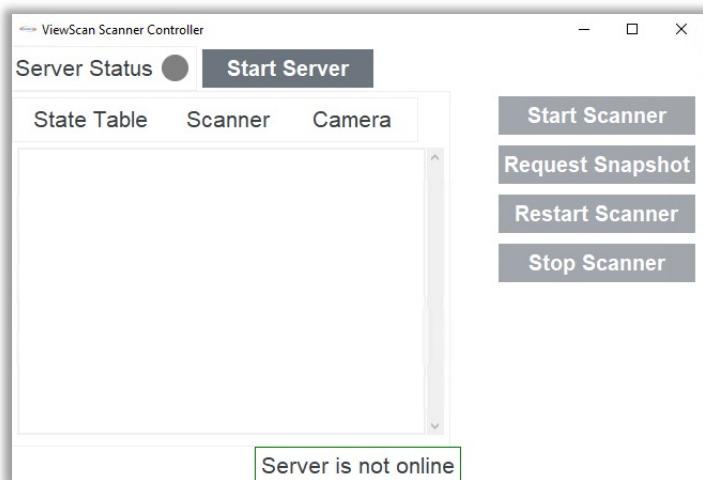
STARTUP INSTRUCTIONS

If ViewScan is not already installed, please follow the **Software Install Guide on page 25**.

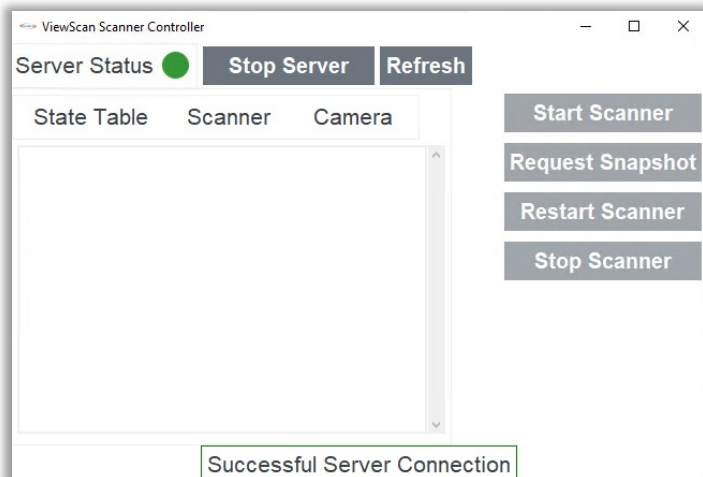
1. Log into the desktop and start the **ViewScan Controller**.



2. After it opens wait for it to connect to the Server. If server connection is unsuccessful click **Start Server**. Allow the controller to make a connection while the server starts up.



3. Once connected it will change the server status icon to green.

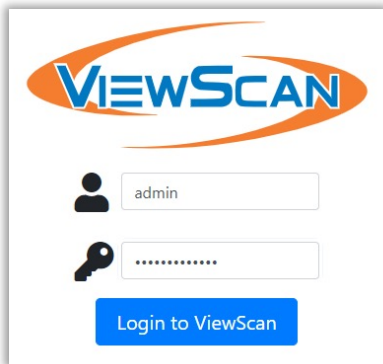


LOGIN INSTRUCTIONS

1. Log into the desktop and start the **ViewScan Controller**.



2. Sign in with the set admin credentials to be changed on first login. **Note:** If logging in for the first-time the credentials are **admin/CHANGE_ME**



3. Follow the prompts in the next section **First Login**

FIRST LOGIN

1. When logging in for the first time a user must complete the EULA & Private Policy.

The screenshot shows two overlapping windows. The top window is titled "IPVideo License Agreement" and contains the "IPVideo Corporation End User License Agreement". The bottom window is titled "Private Policy" and contains the "Privacy Policy". Both windows have a "DECLINE" button and an "ACCEPT" button at the bottom right.

New Password on Login

2. If this is a first-time login for the admin, they may be asked to change the password if not previously set.
3. An account can also be set to force a new password on login. This is shown later in this document.

The screenshot shows the "Enter New Password" form. It includes a list of password requirements, a text input field for the current password, and two text input fields for the new password and its confirmation. At the bottom, there are "LOGOUT" and "CONFIRM NEW PASSWORD" buttons.

The user must input their current password and a new one that meets the displayed password specifications.

If both are valid the screen will refresh, and the **Monitor Page** will be displayed.

LICENSING

1. If unlicensed, a prompt for applying a license will appear on login.
2. **Premium:** Your license is available for download through the link sent to your email. If you cannot find that email, please reach out to customer support.
3. **Pro & Basic:** Your *Temporary* license is available for download through the link sent to your email.
 - To obtain a permanent license, please follow the instructions listed within the email.
 - If you cannot find that email, please reach out to customer support.

License File Upload

UPLOAD LICENSE

Choose File

No file chosen

If you do not have a license, please inquire with our support team
<http://ipvideo.help/> | 631-647-9970

4. Once uploaded, a message will appear and alert you of a valid license.

License Updated

Valid License Saved

5. If the license is for the current device, then the **No Valid License** message in the top navigation bar will be replaced with **No Scanners in Database**

No Scanners in Database

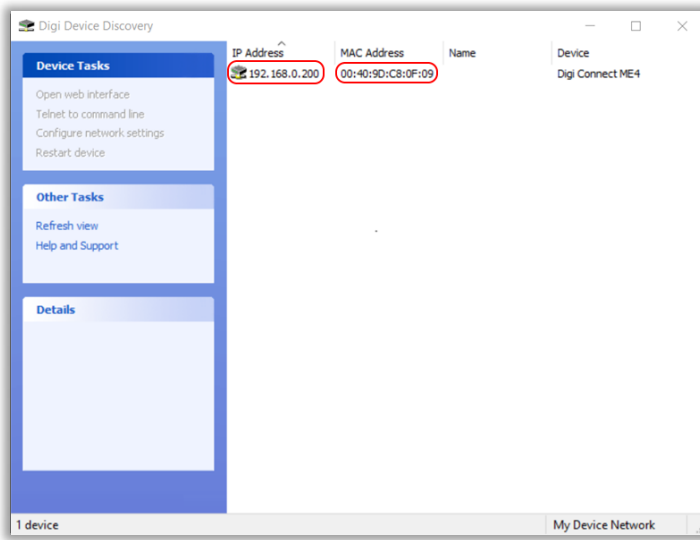
6. Please Proceed to **Collect Portal & Camera Info**

COLLECT PORTAL & CAMERA INFO

If a portal has not already been added to your system you must collect the IP & MAC of the Scanner and optional Camera by following the instructions below.

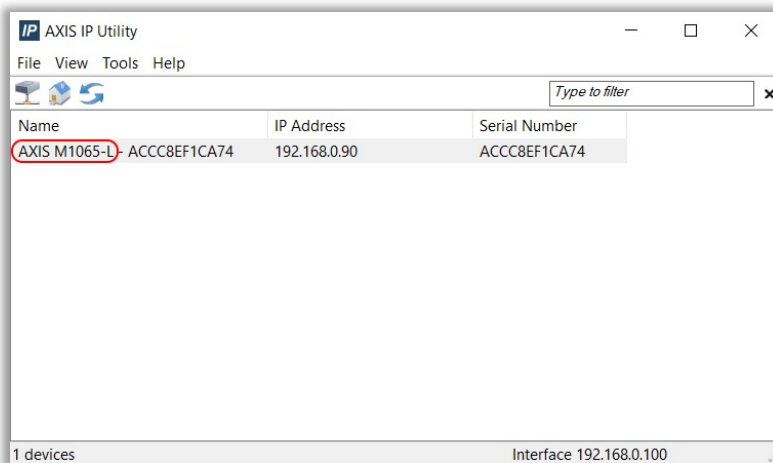
Collect Portal Info:

1. Run **Find Scanner**. A window will appear similar to the one below
2. Write down the Scanner IP & MAC Address to use for later



Collect Camera Info:

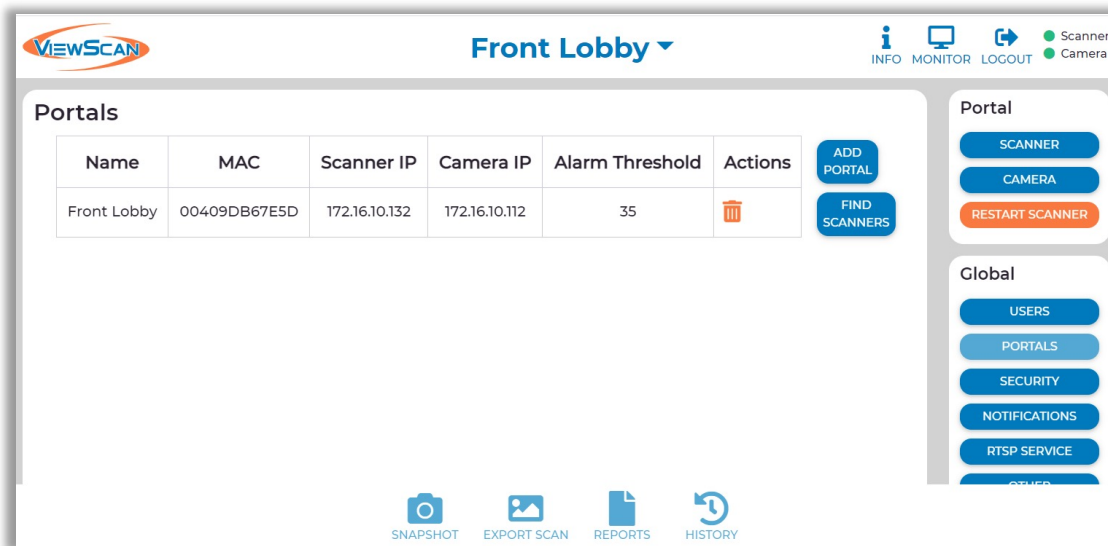
1. For Axis Camera types: Use the given Find Camera tool. It will appear in a window similar to that below.
2. Write down the Camera IP & MAC Address to use for later.
3. Check the Serial Number (MAC) of your camera against the list if more than 1 appear.
4. For Pro or Premium the Name column should have the model 'M1065-L' in it.



For Other Camera types: You will require the IP & MAC Address of your specific camera.

ADD PORTAL

1. Log into the Web Portal, visit the **Settings** page
2. Under **Global** click **Portals**, then **Add Portal**.



3. Fill in the given Portal attributes *with or without* a camera then click **Confirm**.

The screenshot shows the 'Add Portal' form. At the top, there's a title 'Add Portal' and a 'Demo' button. Below that, there are two sections: 'Scanner Settings' and 'Camera Settings'.

Scanner Settings

- Scanner IP: 172.16.16.61
- MAC: 00409DB6750E
- Input Alarm Threshold...
- ☒ Attached Camera

Camera Settings

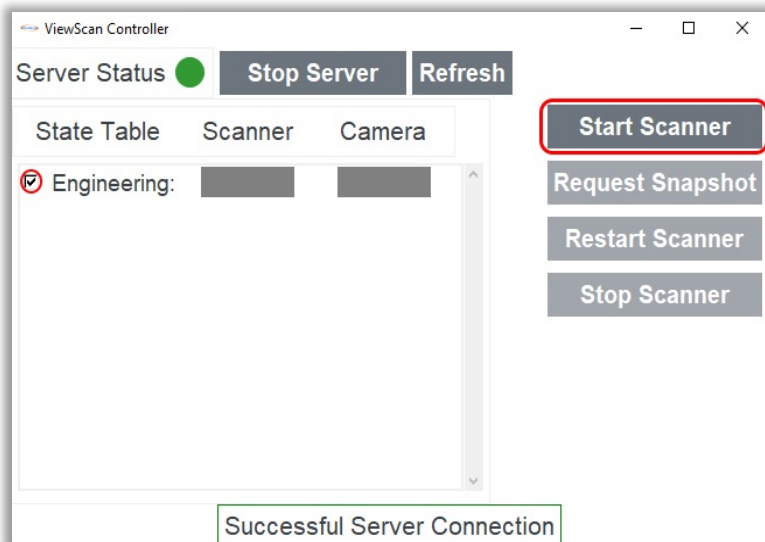
- Camera IP: 172.16.16.63
- MAC: ACCC8EEFDEAA
- Username: root
- Password: pass
- Resolution: 1920x1080
- Frame Rate: 270

At the bottom, there's a '*Required' label and two buttons: CONFIRM and CANCEL.

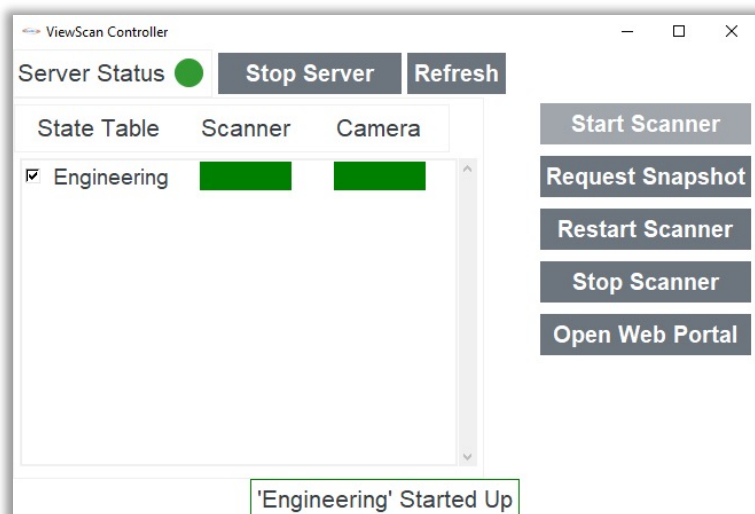
4. The Portal should now be visible on the Controller.

ADD PORTAL

5. Check that the Monolith & Camera have power and go to the **ViewScan Controller**.
6. Click the box next to the name of the Portal.
7. Click **Start Scanner**.
8. Allow the scanner to fully initialize until the status icons turn green.



9. In a few short moments the portal will connect to the system.



10. If using a camera, proceed to **Aligning Camera**.
11. If not using a camera, your portal is now ready to accept passengers.

ALIGNING CAMERA

1. If the scanner is not already active check the box next to a name in the Controller.
2. Click **Start Scanner**. Allow the scanner to initialize until the status icons turn green.
3. Visit the **Web Portal** and click **Settings**, then **Camera**, then **Align ViewScan Camera**.

Camera Settings

Camera ID: ACCC8EE6ECD8 Rotation: 0

Camera IP Address: 172.16.16.62 Frames Per Second: 30

HTTP Port: 554 Resolution: 1920x1080

Username: root **ALIGN VIEWSCAN CAMERA**

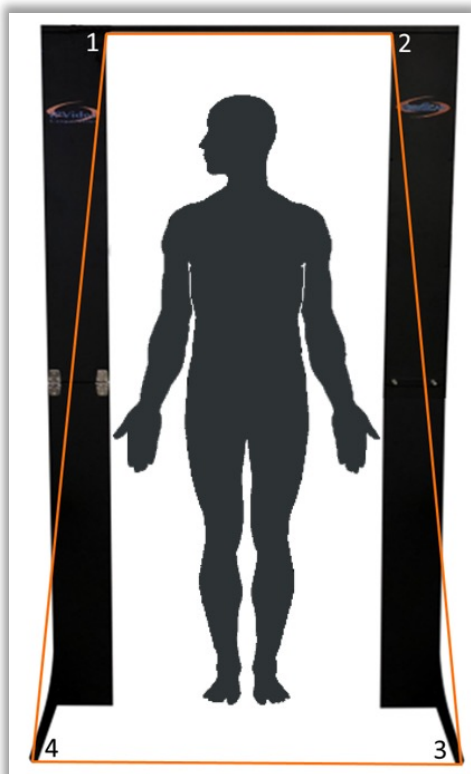
Password: Input Password... VIEW CAMERA PAGE

Time Delay: 1000

Warp Corners: [[542,30],[914,36],[892,946],[548,946]]

SAVE CAMERA SETTINGS

4. Click the following locations in this order on your scanner:
 - Top-Left inner corner
 - Top-Right inner corner
 - Bottom-Right stabilizing foot edge
 - Bottom-Left stabilizing foot edge



ALIGNING CAMERA

5. Click **Confirm Alignment**, then **Save Camera Settings**, and finally **Restart Scanner**.
6. Allow the Scanner to perform a restart. Wait until the status icons turn green.
7. Walk through the scanner holding a metallic object and check if the detection appears on the correct side.
 - If not, visit **Scanner** in **Settings** and check **Swap Left & Right Sensors**, then **Save Scanner Settings**, and finally **Restart Scanner**.
 - The scanner should now show detections on the correct side.
8. Walk through the scanner one last time from the opposite direction and confirm that no sensors are not in operation.

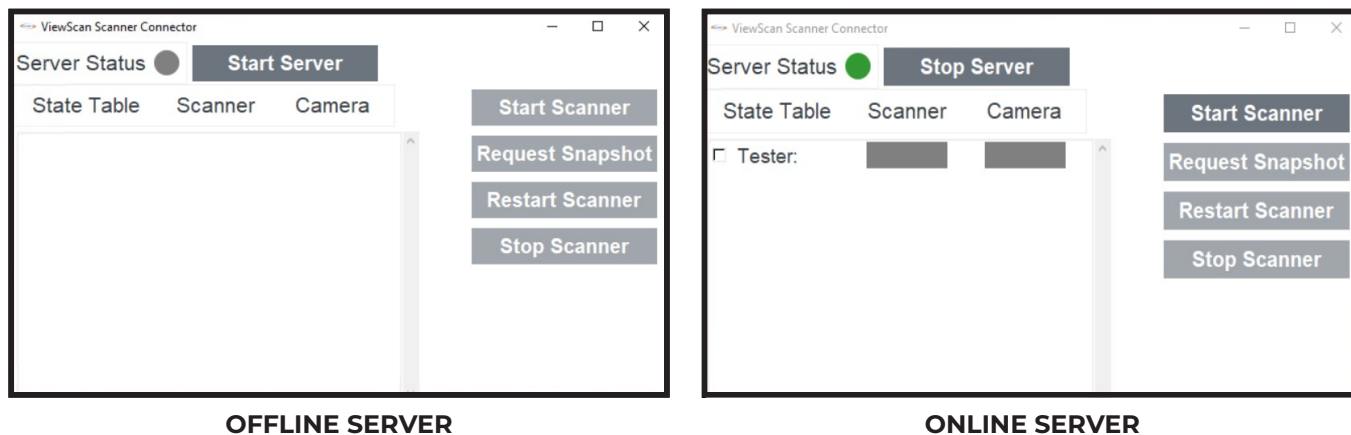
Your ViewScan is now setup and ready for passengers.

CONTROLLER OPERATION

Server Startup

To startup the server **double-click** the '**ViewScan Controller**' application. A menu will appear and tell the on/off status of the server. The icon will be green if it is online.

If the status icon is grey, click **Start Server** and wait until the loading icon disappears.



A **Web Portal** will then startup at '**http://<IP_ADDR>:6333**' with a shortcut on the desktop. The IP address, **IP_ADDR**, is the one the server is currently set to. A firewall rule may need to be setup to allow traffic on port 6333.

Scanner Startup

A **Portal** is made of two parts: A Scanner and (optional) Camera.

The controller tool is used to run the server & each scanner connected to it.

To operate a scanner, click the checkbox to the left of its row and then an according button:

- **Start Scanner:** Begins operation of the ViewScan.
 - The status icons for the Scanner & Camera will turn green if successful.
- **Request Snapshot:** Takes a snapshot with the current scanner.
- **Restart Scanner:** Stop & Start Scanner operation.
- **Stop Scanner:** Stop operation of the Scanner.

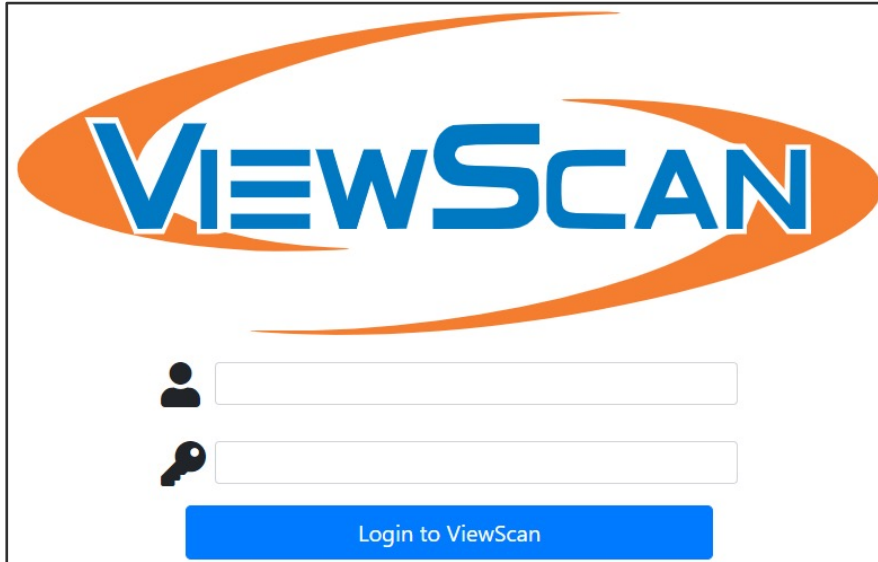
Editing Config

If the network is changed in a way that the server no longer has the previous set IP, then delete the **vs_server.config** file found within the **Program Files** directory of **ViewScan_Server**.

WEB PORTAL

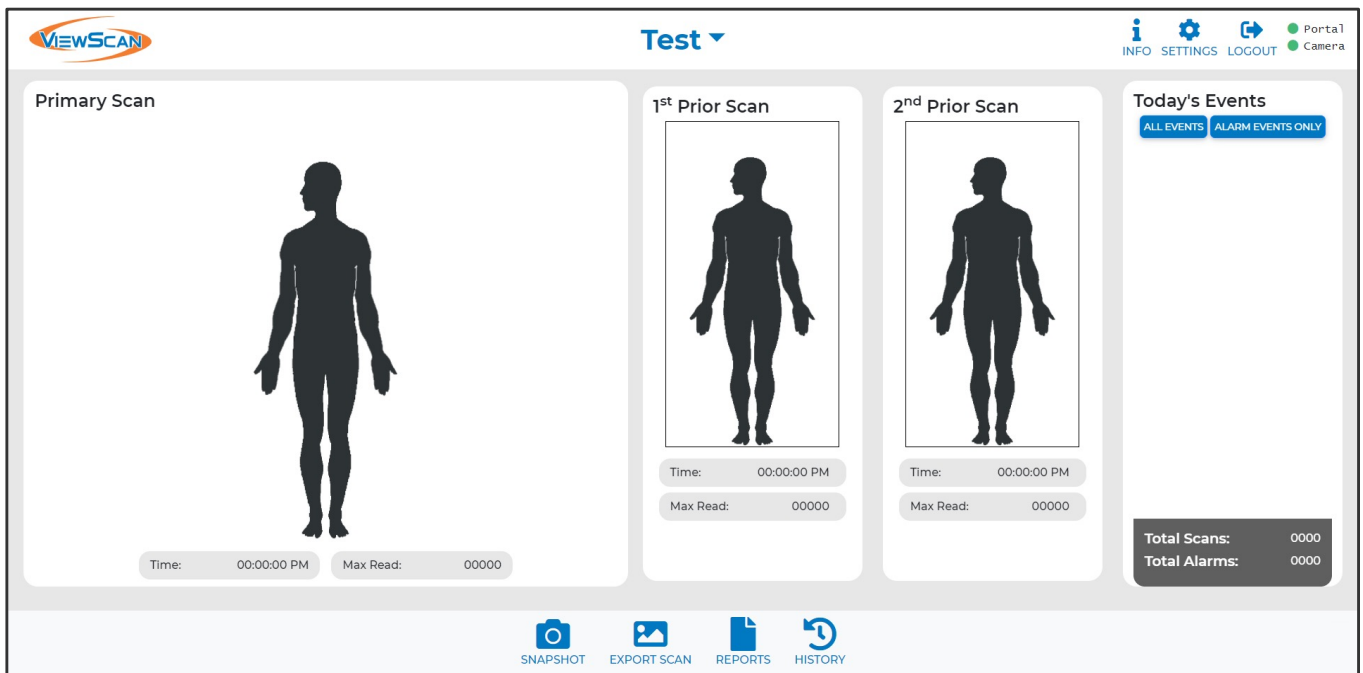
This is the login menu that a user is met with when visiting the Web Portal URL:

http://IP_ADDR:6333



The login screen features the ViewScan logo at the top. Below it are two input fields: the first is preceded by a person icon and the second by a key icon. A blue button labeled "Login to ViewScan" is positioned below the input fields.

Once logged in the user will be met with the **Monitor Page**. This is the main screen that will show the results of each scan as a visitor passes through.



The Monitor Page displays scan results for a visitor. It includes a "Test" dropdown menu and navigation links for INFO, SETTINGS, LOGOUT, Portal, and Camera. The main content area shows three scan results: Primary Scan, 1st Prior Scan, and 2nd Prior Scan. Each scan result includes a silhouette of the visitor and a table with Time and Max Read values. A "Today's Events" section on the right shows buttons for ALL EVENTS and ALARM EVENTS ONLY. A summary table at the bottom right shows Total Scans and Total Alarms.

Scan Type	Time	Max Read
Primary Scan	00:00:00 PM	00000
1st Prior Scan	00:00:00 PM	00000
2nd Prior Scan	00:00:00 PM	00000

Category	Value
Total Scans	0000
Total Alarms	0000

MONITOR OVERVIEW

Upper Navigation Bar



This navbar is used to move between different sections of the Web Portal.

If no scanners are in the system, the text "No Scanner in Database" will appear on top.

Once a scanner is added to the system it is replaced with a device dropdown.

The buttons on the right operate as follows:

- **Alarm:** Mute/Unmute the alarm sound.
- **Settings:** Opens the settings page. Admin users may edit scanner settings from this menu.
- **Info:** Displays the info for the ViewScan 2.1 and the current Scanner.
- **Logout:** Logs the computer out of the system and returns to the Login page.

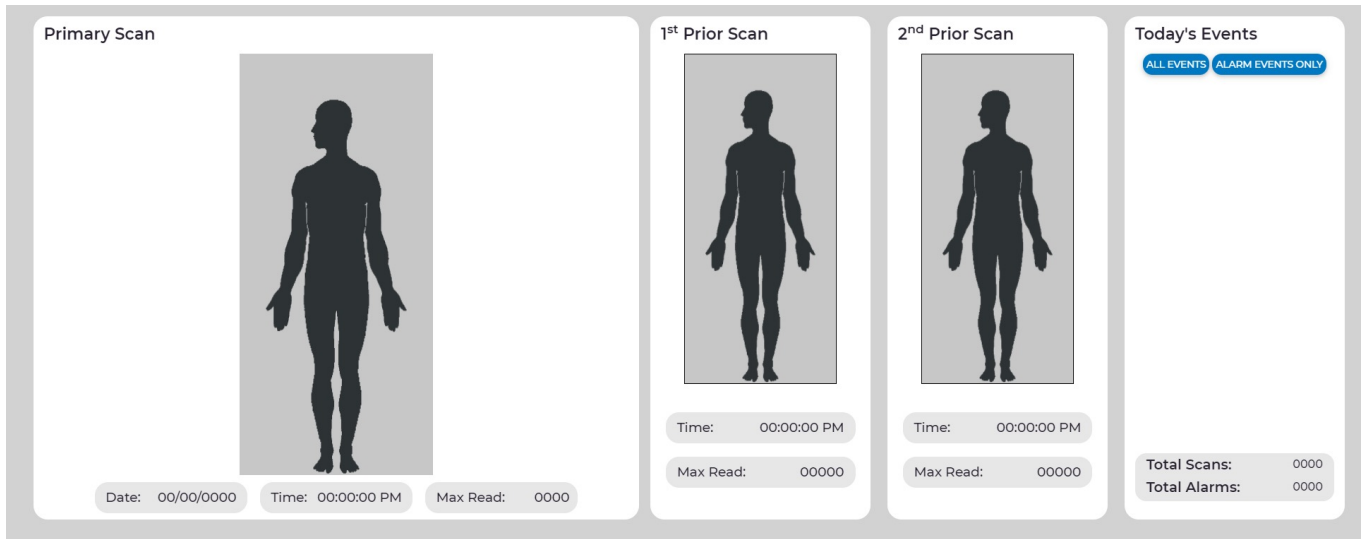
Lower Navigation Bar



The navbar buttons operate as follows:

- **Status Indicators:** Shows the current status of the Scanner & Camera
 - **Red:** Offline
 - **Orange:** Starting Up
 - **Green:** Online
- **Snapshot:** Records the scanner's current readings if available.
- **Export Scan:** Exports the current visible scan as a .PNG file.
- **Reports:** Opens the Reports page.
- **History:** Opens the History page.
- **Date & Time:** The Current Date & Time based on the client's location.

MAIN BODY



The Main Body displays a scan's readings and image. Below each scan shows the scan record time for the given day and the highest value detected.

The Primary Scan is where selected scans are displayed. Each new scan that the system detects is shown in it. Selected scans are shown here to view past events.

The Past Scans section on the right shows the two prior scans taken before Primary Scan. These can be clicked to show their readings.

The Today's Events section displays each scan taken that day. These can be clicked to show their readings.

The toggle buttons allow a user to filter scans to just those that rang an alarm.

If enough scans are in the current day's history a **Load More Events** button appears at the bottom of Today's Events.

HISTORY OVERVIEW

The History Overview interface displays three scan panels and a summary section:

- Primary Scan:** Shows a silhouette of a person. Below the image are fields for Date (00/00/0000), Time (00:00:00 PM), and Max Read (0000).
- 1st Prior Scan:** Shows a silhouette of a person. Below the image are fields for Time (00:00:00 PM) and Max Read (00000).
- 2nd Prior Scan:** Shows a silhouette of a person. Below the image are fields for Time (00:00:00 PM) and Max Read (00000).
- History Events:** Includes a date selection tool (1/13/2021) and a summary of Total Scans (0000) and Total Alarms (0000).

To view past Scans from days prior click the **History** button located in the **Lower Navbar** of the **Monitor Page**. This will switch into the **History Page**. To return to the Main Page click the History button again.

New scans will not be displayed in the Main Page until the History Page is left.

To the right of History is a date selection tool. Using the calendar dropdown, a user can select any viable date and view previous scans. By clicking the scan events a user can switch between different scans.

REPORTS OVERVIEW

The Reports generation interface includes the following fields and buttons:

- Report Date:** MM/DD/YYYY
- Start time:** Start of day
- End time:** End of day
- Report Contents:** Scan Count (dropdown)
- Report Output:** PDF (dropdown)
- GENERATE DAY REPORT** (button)
- Month & Year:** MM/YYYY
- Report Contents:** Scan Count (dropdown)
- Report Output:** PDF (dropdown)
- GENERATE MONTH REPORT** (button)

To generate a Daily/Monthly report of scans click the **Reports** button located in the **Lower Navigation Bar** of the **Monitor page**. This will bring up the **Reports page**.

- There are three inputs for a day report: Date, Start Time, End Time.
- There is one input for a month report: Month/Year.
- There are report dropdowns for Report Contents & Output Type

Once selected click the respective generate button and a report will be made.

To return to the Main Page click the Reports Button again.

SETTINGS OVERVIEW

Portal Settings

Portal ID: 00409DB6750E

Install Location: Engineering

Portal Serial Number: Input Port Serial Number...

Portal IP Address: 172.16.16.61

Alarm Threshold: 35

Dynamic Gain: 15,7;25,4;30,3;35,1;500,0

Max Scan Age (Days): -1

☐ Swap Left & Right Sensors

☒ Enable Camera

[SAVE PORTAL SETTINGS](#) [VIEW SCANNER PAGE](#)

Portal

[PORTAL](#)

[CAMERA](#)

[RESTART VIEWSCAN](#)

Global

[USERS](#)

[PORTALS](#)

[SECURITY](#)

[NOTIFICATIONS](#)

[RTSP SERVICE](#)

[OTHER](#)

The Settings page is used to make changes to the settings of both the Scanner and Server.

Non-Admin users only have access to the **Other** settings section.

The navbar on the right open the different windows as follows:

Settings

- **Scanner:** Display/Edit the current Scanner settings
- **Camera:** Display/Edit the current Camera settings
- **Save Settings:** Save all the current Scanner/Camera/Global settings to the database.
- **Apply Settings:** Restart the current Scanner to load in saved settings.

Global Settings

- **Users:** View/Add/Edit/Delete Users in the system.
- **Portals:** View/Add/Delete Portal in the system.
- **Security:** Edit parameters necessary for user account creation.
- **Notifications:** Enable TCP/Email messaging and edit what and where notifications are sent to.
- **RTSP Service:** Enable an RTSP service for each Portal's MJPEG stream. Output is updated with each successive scan. The stream can be set with authentication if desired.
- **Other:** Toggle on/off the alarm, what sound is played and the volume. Toggle Dark mode on/off. This is local to a user's computer.

SCANNER

The Scanner Settings can be edited to change the parameters of the assigned Scanner.

- **Scanner ID:** The ID/MAC Address of the scanner
- **Location/Name:** The Name of the scanner which is displayed in the top navbar.
- **Scanner Serial Number:** The S/N of the scanner device.
- **Scanner IP Address:** The IP of the scanner.
 - Check the Digi device detector to ensure it is correct.
- **Alarm Threshold:** The value which if a scan has a reading at or above will result in an alarm being rung.
- **Dynamic Gain:** Gain that increases values below a certain limit by a set amount.
 - Certain values can be set to allow for peaks to appear in the scan graph.
- **Max Scan Age (Days):** Scans older than this number of days are removed from the system.
 - If set to -1 then no scans are removed.
 - **Warning: Deletion of Scans is permanent.**
 - **If set to '0' this Portal's scans will be removed every 24 hours.**
- **Swap:** If readings are appearing backwards then select this so the values are switched. The scanner works in both directions.
- **Enable Camera:** Enables the camera. If disabled a silhouette will be used.
- **View Scanner Page:** Opens the Digi Device home page for the scanner.

To apply any settings an admin must click **Save Scanner Settings** at the bottom of the menu. If the scanner is currently online, they can also click **Restart Scanner** to apply these settings.

CAMERA

The Camera Settings can be edited to change the parameters of the attached Camera.

- **Camera ID:** The ID/MAC Address of the camera
- **Camera IP Address:** The IP of the camera.
 - Check the AXIS device finder to ensure it is correct.
- **HTTP Port:** The port which outputs the RTSP stream data.
- **Username & Password:** The username & password of the camera.
- **Time Delay:** The time in milliseconds delayed before a snapshot is taken.
 - The RTSP stream can experience a time delay. Waiting for a short period allows for the Scanner passenger to be in it at the time of capture.
- **Warp Corners:** Taken except from the **Align ViewScan Camera** process. These are the four corners which are used to warp the image to see the passenger more clearly.
- **Rotation:** The rotation of the Camera. Most ViewScan cameras are set horizontal for a better view so the image can be later rotated clockwise.
- **Frames Per Second:** How many frames can be captured in a single second. The more frames captured the easier to capture a passenger as they're going through the scanner.
- **View MJPEG Stream:** Opens the MJPEG stream of the current portal.
 - This is what the RTSP service streams.
- **View Camera Page:** Opens the home page of the camera.

ALIGN CAMERA



Click the **Align ViewScan Camera** button and the Camera Alignment Tool will soon open.

Once the camera image is loaded check if it is correctly oriented. If incorrect set the rotation different, save the settings and restart the scanner.

Open the Tool again and confirm proper alignment.

Click the following locations in this order on your scanner:

- Top-Left inner corner
- Top-Right inner corner
- Bottom-Right stabilizing foot edge
- Bottom-Left stabilizing foot edge

See figure to left for an example.

Click **Confirm Alignment**, then **Save Camera Settings**, and finally **Restart Scanner**.

Allow the Scanner to perform a restart. Wait until the status icons turn green.

Walk through the scanner holding a metallic object and check if the detection appears on the correct side.

- If not, visit **Scanner** in **Settings** and check **Swap Left & Right Sensors**, then **Save Scanner Settings**, and finally **Restart Scanner**.
- The scanner should now show detections on the correct side.

Walk through the scanner one last time from the opposite direction and confirm that no sensors are not in operation.

USERS

Add User

The Username must:

- Not have any spaces
- Be at least 5 characters
- Only have letters & numbers

The Password must:

- Be at least 8 character(s)
- Have at least 1 numerical character(s)
- Have at least 1 special character(s)
ex: > < ; . : _ + # * ! \$ % & ?
- Have different case characters

Permission

Admin ▼

ADD USER

CANCEL

Adding a User

To add a user to the application login to the **ViewScan Web Portal** with an admin account and go to the **Admin Settings**.

Click **Users** under **Global Settings** and then click **Add User**.

Fill in each section. The password must conform to the requirements under **Security**.

There are 3 Permission levels:

- Admin:
 - View & Edit all admin settings
 - View all history, make reports
- User:
 - View all history, make reports
- Viewer
 - View today's history

Edit User

The Name can be similar to others

The Username must:

- Not have any spaces
- Be at least 5 characters
- Only have letters & numbers

The Password must:

- Be at least 8 character(s)
- Have at least 1 numerical character(s)
- Have at least 1 special character(s)
ex: > < ; . : _ + # * ! \$ % & ?
- Have different case characters

Permission

▼

CONFIRM EDIT

CANCEL

Edit User

To edit a user in the application login to the **ViewScan Web Portal** with an admin account and go to the **Admin Settings**.

Click **Users** under **Global Settings** and then click the **Edit** icon in the **Action** column.

Here, an admin can change a user's name, username, permission status and password.

To confirm the user's password must be put in the *Current Password* input.

USERS

Unlock / Lock Account

Tester

Status: UNLOCKED

LOCK ACCOUNT CANCEL

User Lock

To Unlock/Lock a user login to the **ViewScan Web Portal** with an admin account and go to the **Admin Settings**.

Click **Users** under **Global Settings** and then click the **Padlock** icon in the **Action** column.

A locked user account will not be able to login until their account is unlocked.

Reset User Password

tester

☐ Randomize Password

☐ New Password on Login

Current Admin Username

Current Admin Password

CONFIRM RESET CANCEL

User Password Reset

To randomize or force a new password for a user login to the **ViewScan Web Portal** with an admin account and go to the **Admin Settings**.

Click **Users** under **Global Settings** and then click the **Key** icon in the **Action** column.

Here an admin can select to randomize and/or force the user to input a new password.

To confirm an admin must put in their credentials after which a message containing the new user password will appear.

Delete Scanner/User

Delete User

tester

Confirm Username

Current Admin Username

Current Admin Password

CONFIRM DELETE CANCEL

Delete Portal

Engineering

Confirm Portal Name

Current Admin Username

Current Admin Password

CONFIRM DELETE CANCEL

To delete a User or Scanner entry click the Trash can in the **Actions** column of its table. A menu will appear asking the admin to confirm the *case-sensitive* name of the entry. If all entries are valid then the User or Scanner will be removed from the system.

SECURITY

When an account is made there are necessary password requirements that must be met to be accepted. These can be changed here accordingly.

Once changed, new accounts must meet these minimums. The current defaults are set in accordance with California State law.

Initial Scans Loaded indicates the number of events that load in when a user first logs in. This can be changed between 25, 50, 100, and ALL.

RTSP

When the application starts an MJPEG stream is started for each scanner. The stream is located using the path:

http://<Server_IP>/stream?portal=<Scanner_Name>

To start an RTSP Stream an admin must check **Enable RTSP Service** and click **Restart RTSP Service**. Once the buttons reenable the services are running.

A username and password can be set for the stream if warranted.

RTSP Path without password:

rtsp://<Server_IP>:<RTSP_Port>/<Scanner_Name>

RTSP Path with password:

rtsp://<user>:<pass>@<Server_IP>:<RTSP_Port>/<Scanner_Name>

Example: rtsp://root:pass@10.1.6.219:8544/Engineering

NOTIFICATIONS

The system can send out a notification message containing scan data.

For Email, the message subject can be set on the bottom using data from the given scan. An example scan will show what this message will look like.

For TCP, the scan data will be sent in JSON format along. In this message will be the key event which will be set to *scan_detected*.

A heartbeat message will be sent out every 5 minutes to each IP. In this message will be the key event which will be set to *heartbeat*.

Notification Settings

☐ Enable Email Notification ☐ Enable TCP Notification

Email Requirements

Host: smtp.gmail.com

Port: 25

Username: Input Username...

Password: Input Password...

TCP Requirements

Recipient(s): Input IP Addresses... (ex. 10.10.1, 172.16.16.54)

Port Number(s): Input Port(s)...

1 Port ▶ IPs use one port | 2+ Ports ▶ IPs use set port
TCP Does Not Receive Message Subject

Disconnect Event

☒ Email On Unexpected Device Disconnect

Disconnect Recipient(s): Input Emails... (ex. test@gmail.com, test2@email.cor)

Scan Event

Email On Scan Type: Alarm

Scan Recipient(s): Input Emails... (ex. test@gmail.com, test2@email.cor)

Message Generation

Below you can use:

%NAME% - scanner name	%SID% - scan id
%IP% - scanner ip address	%PEAK% - peak scan value
%MAC% - scanner mac address	%DATE% - local date of scan
%TIME% - local time of scan	

The Server will replace each %KEY% with the Scan's information

Subject: at location %NAME%

Subject Example: ViewScan Alarm at location SCANNER_NAME

SAVE NOTIFICATION SETTINGS SEND TEST MESSAGE

After **Save Notification Settings** is clicked, it will attempt to make an Email service connection and set the IPs & Ports input.

OTHER SETTINGS

The **Other Settings** menu contains miscellaneous items for both User & Admin use.

- To toggle **Dark Mode**, select the switch and the screen will turn dark/light depending on the selection.
- To change the lower clock to 24-Hour select the 24-Hour Time switch. This will also change the label for newly loaded events.
- A user can select which alarm sound they want to play from the sound dropdown.
- Only an admin can upload their own audio files to sound off when an alarm scan is sent. The file must be an .mp3 and be *no more* than 2 seconds.
- If an admin wants to delete a sound file, they can do so by selecting it from the **Alarm Sound** dropdown and clicking **Delete Alarm**.

Note: This cannot be done for the four preset alarm sounds.

Other Settings

☐ Toggle Dark Mode

☐ 24 Hour Clock

Alarm Sound: Four Beeps

Volume: 100

PLAY ALARM DELETE ALARM

The file must be an MP3 & less then 2 seconds

UPLOAD AUDIO Choose File Chime.mp3 Length: 1.46 sec

TRAVEL CASE

The large rectangular cutout is for both pillars with foam sheet separator.



The cutout next to the pillars is for the camera boom.

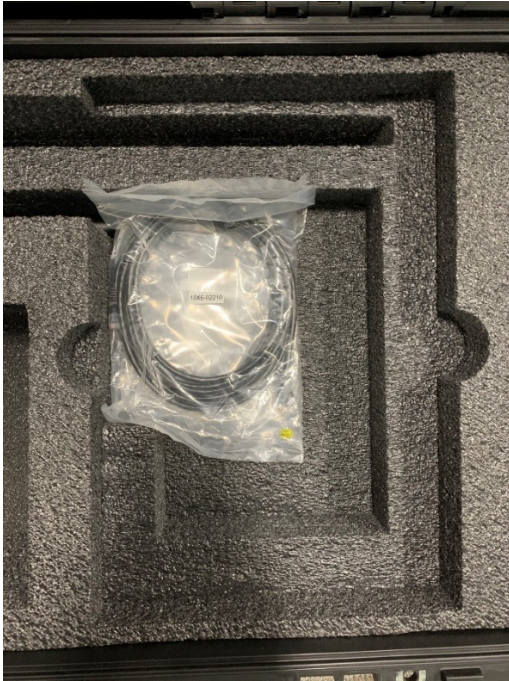


The cutout next to the camera boom is for the crossbar.

TRAVEL CASE

Use this space for Viewscan accessories:

- Ethernet patch cables
- Switch with power supply
- Laptop power supply
- Viewscan power supply
- Hardware



The laptop will sit above the accessories in this dedicated area. Cover the laptop with the foam sheet to protect it from damage.

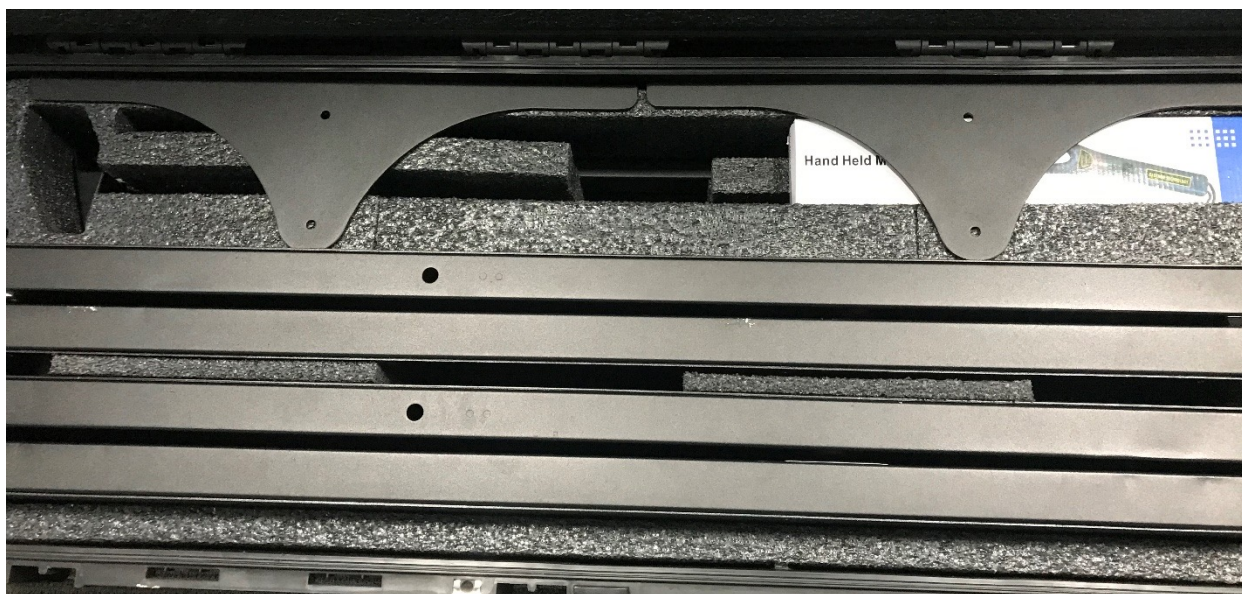


TRAVEL CASE

Use this cutout for the handheld metal detector.

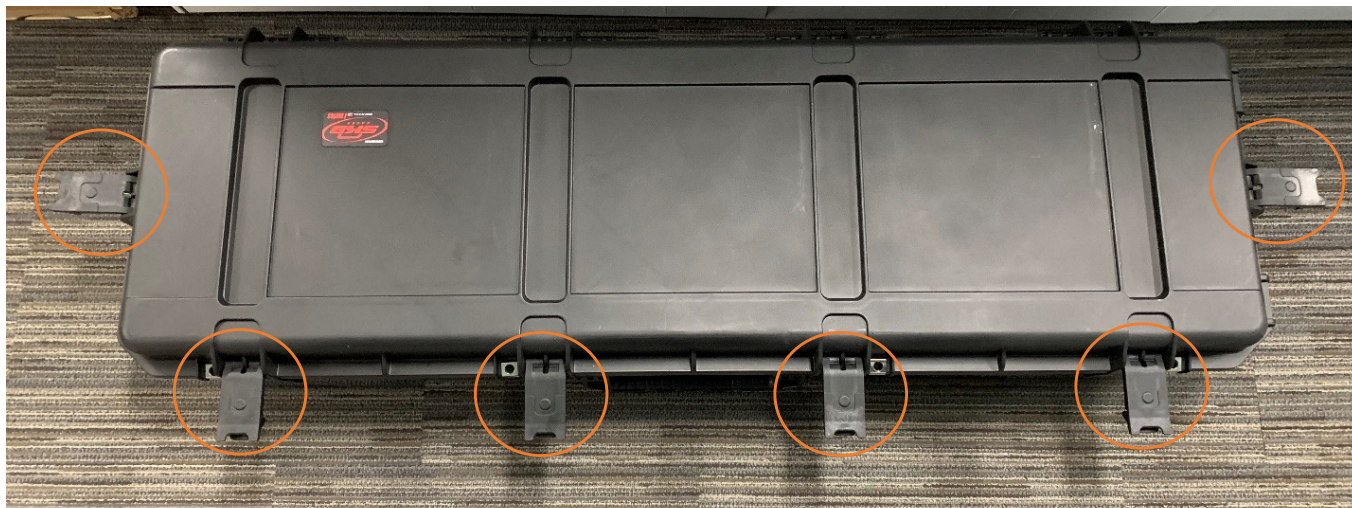


Slide the feet between the foam and plastic to ensure there is no movement when traveling.



TRAVEL CASE

Fasten all 6 latches before use.



BATTERY SETUP

1. Begin by removing everything from the box.
 - There will be a Jackery battery with power supply, 12V ViewScan cable, and Y splitter cable.
2. Unbox the battery and begin charging the unit with the provided power supply. Connect this power supply into the section on battery “DC Input” as seen below.

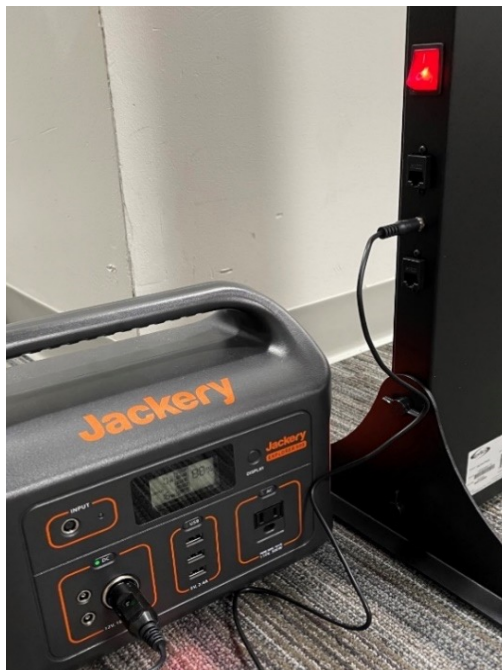


3. Once charged completely, the battery is ready for use. This should take about 7.5 hours.



BATTERY SETUP

4. Use the provided 12V Viewscan cable and terminate it to the car outlet in the section on the battery labeled “DC Output” as seen below.
 - Press the DC button and it will illuminate green.
5. Terminate the other end of this cable to the ViewScan.



6. Use the provided Y splitter cable and terminate it to the section on the battery labeled “AC outlet”
 - Press the AC button and it will illuminate green.

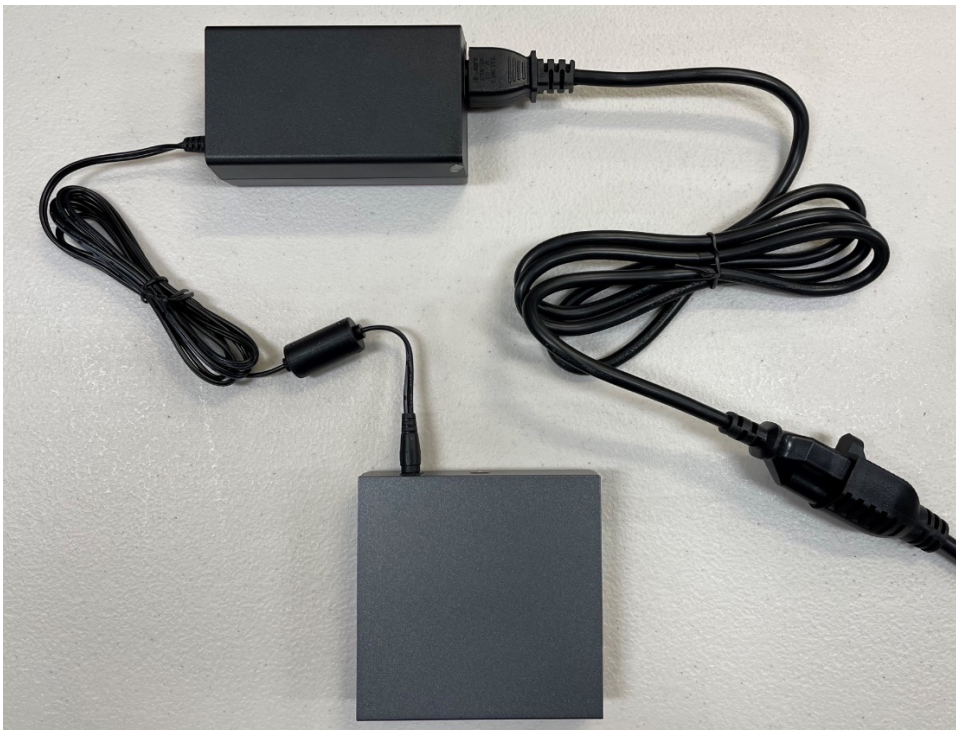


BATTERY SETUP

7. The 2 ends of the Y splitter are to be used for the laptop and PoE switch.
8. Plug the laptop power supply into one end of the power supply and then into the laptop to begin charging.

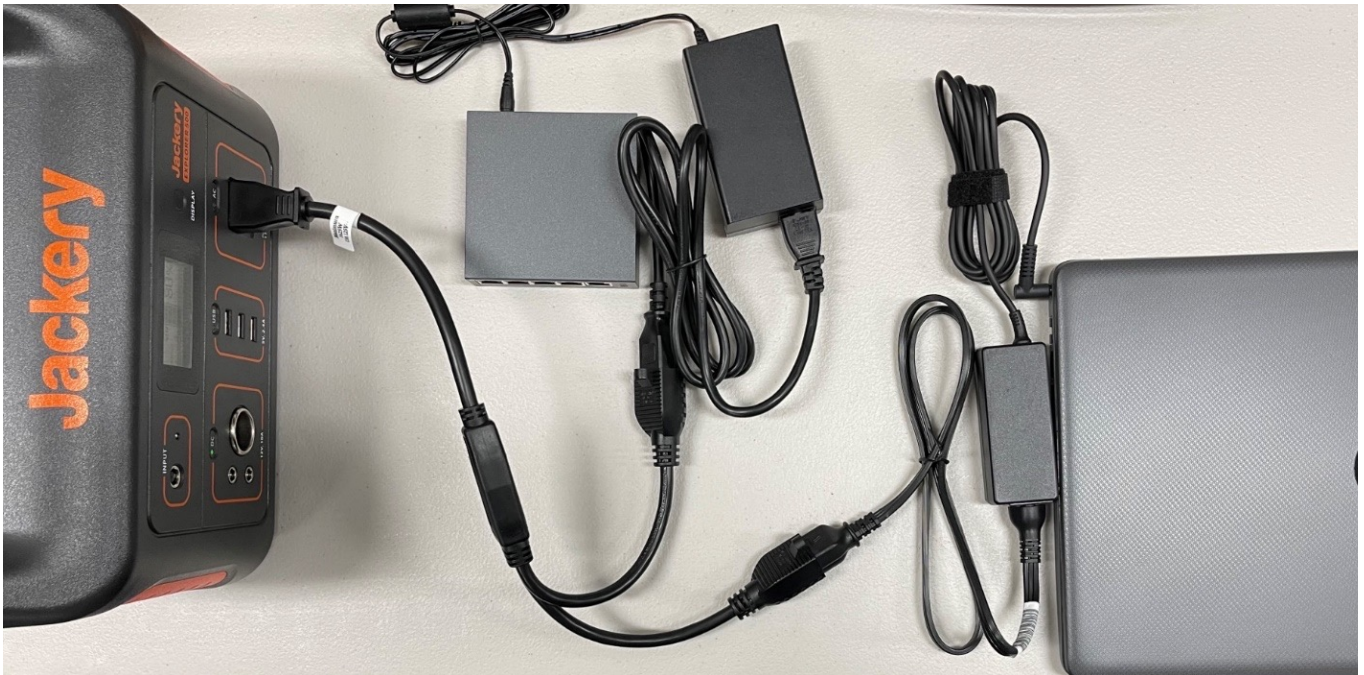


9. Plug the power supply for the PoE switch into the other side of the splitter.



BATTERY SETUP

10. This is what the Y splitter cable should look like after plugging everything in.



11. Once set up, the battery should keep the ViewScan functioning for about 8 hours.

12. For technical specs and questions about the battery please consult with the website: <https://www.jackery.com/products/explorer-500w-portable-power-station>

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