



# Miovision Core & Miovision Core DCM Hardware Installation Manual

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# Getting started

This document contains all the information you need to install the Miovision Core® or Miovision Core® DCM hardware. This guide assumes that you have the requisite background knowledge and equipment to safely handle electronic components.

## Miovision Core Components

The Miovision Core & Miovision Core with the Detection and Counts Module (DCM) is a combined hardware and software solution to help you manage your intersection through the Miovision TrafficLink™ web-based portal to make data-informed decisions. In addition to the portal, this solution requires a camera to be installed at the intersection.

Component	Description
TrafficLink portal	The TrafficLink portal is a web-based dashboard where you can remotely manage signals, retrieve signal performance measures, and view recorded video footage of your intersections.
Miovision Core	Miovision Core is the center of the Miovision in-cabinet communications, monitoring, and traffic operations and management solution. It gathers data from the existing controllers and devices and provides convenient, secure remote connectivity to the cabinet.
Miovision Core DCM	Miovision Core with the Detection and Counts Module (DCM). The DCM slots into the Miovision Core mainframe, providing the edge processing power necessary for the solution's specialized computer vision algorithms.

## Physical Specifications

### Miovision Core

Device weight (not including cables)

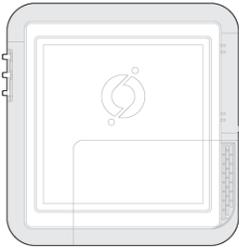
Miovision Core	4.9 lbs (2.2 kg)
Dimensions	
Miovision Core	10.5 (h) x 3.0 (w) x 10.0 (d) in 266 (h) x 75 (w) x 254 mm (d)

**Miovision Core DCM**

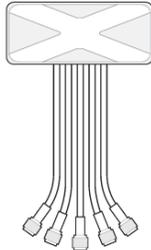
Device weight (not including cables)	
Miovision Core DCM	6.3 lbs (2.9 kg)
Dimensions	
Miovision Core DCM	10.5 (h) x 3.0 (w) x 10.0 (d) in 266 (h) x 75 (w) x 254 (d)

# Package Contents

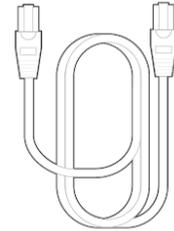
## Miovision Core



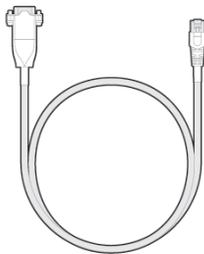
Miovision Core



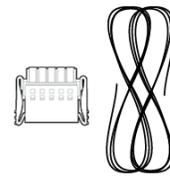
External Antenna



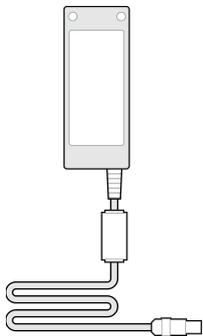
ITS Ready Ethernet Cable - 6ft (1.8m)



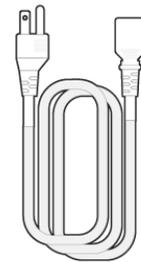
Core RJ45 to DB9 Serial Cable



Generic I/O Header with hookup wires



Core Universal Power Supply



NEMA 5-15P to IEC-320-C13  
(or region-specific)

## Optional Miovision Core Wires:

- Core SDLC Y DB15 Cable
- Core SDLC Straight DB15 Cable

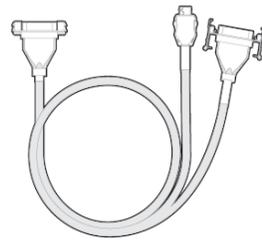
- Core SDLC Y DB25 Cable
- Core SDLC Straight DB25 Cable
- Core Priority Control IO Cable

## Miovision Core DCM

The Miovision Core DCM includes all the above components with the addition of the following:



Miovision Core DCM  
(DCM module is bottom right)



Core SDLC Y DB15 Cable  
or ATC SB1 DB25 Cable

## Optional Miovision Core DCM Wires:

- Core SDLC Straight DB15 Cable
- Core SDLC Y DB25 Cable
- Core SDLC Straight DB25 Cable
- Core Priority Control IO Cable

## Installing the Miovision Core Antenna

You can also review the following steps in the [Device Placement and TrafficLink Antenna Installation](https://www.youtube.com/embed/CIi2FMNLK1Y) (<https://www.youtube.com/embed/CIi2FMNLK1Y>) video tutorial.

## Planning your Miovision Core Installation

Before you begin, determine the best location in the cabinet for the antenna and the Miovision Core. To accommodate these devices, you might need to move some of the

existing equipment in the traffic cabinet. Make sure that you have access to terminal block wiring or a 110V-240V uninterrupted (non-GFCI) power source for the Miovision Core.

Note: If the Core is replacing a SmartLink, the existing antenna can be used. See the Using a SmartLink Antenna section.

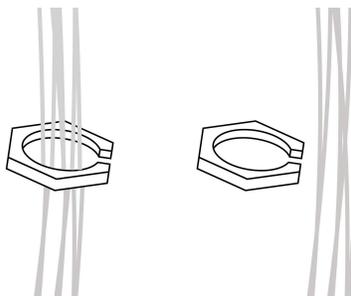
## Required tools (not included)

- Drill and 7/8 in(22 mm) hole saw or punch
- Industrial-strength cleaner
- Heat gun if installing in temperatures under 41°F (5°C)
- Drop cloth or container to catch drill filings

1. Mark a location for the antenna hole on top of the cabinet, at least 6 inches (150 mm) from any edge. The antenna must be at least 8 in (200 mm) away from the device. Choose a location so that your drill bit or punch does not dent or puncture equipment in the cabinet.
2. To contain sharp steel burrs that can cut wire or cause an electrical short, place a small container or cloth inside the cabinet, below the drill location, to catch any debris from drilling.
3. Drill or punch a hole at the marked location.
4. To provide a smooth surface for good adhesion, clean the surface where you are installing the antenna with industrial-strength cleaner. Remove any burrs caused by drilling.

**Note:** Make sure to completely remove any dirt, moisture, frost and steel burrs from drilling before continuing.

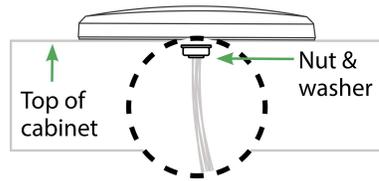
5. Remove the twist ties, nut, and washer from the antenna cables.
6. Guide the antenna cables through the hole in the cabinet as shown below..



7. If the ambient temperature is below 41°F (5°C), use the heat gun to warm the surface where you are placing the antenna.
8. Remove the protective film from the adhesive pad on the bottom of the antenna

and then firmly press the antenna onto the top of the cabinet.

9. Slide the washer and nut around the antenna cables.



10. Hand-tighten the nut.
11. Using the wrench, tighten the nut one full turn.
12. Visually inspect the antenna to ensure the adhesive forms a tight seal on top of the cabinet.

## Installing SmartView Approach and SmartView 360 cameras

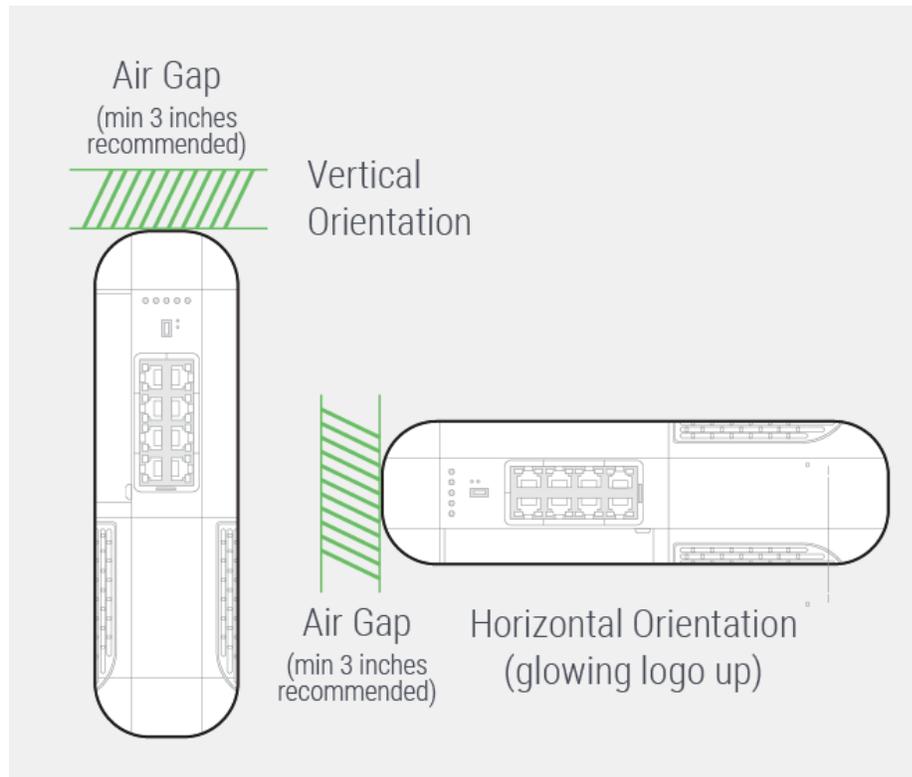
To install and set up the Miovision SmartView Approach or SmartView 360 camera, download [the Miovision SmartView Approach and 360 Installation Guide](https://help.miovision.com/s/article/Miovision-SmartView-360-Installation-Guide).  
<https://help.miovision.com/s/article/Miovision-SmartView-360-Installation-Guide>

## Installing Miovision Core

You can also review the following steps in the [Miovision Core Installation](https://www.youtube.com/embed/Gwv5OAMxHc8) <https://www.youtube.com/embed/Gwv5OAMxHc8> video tutorial.

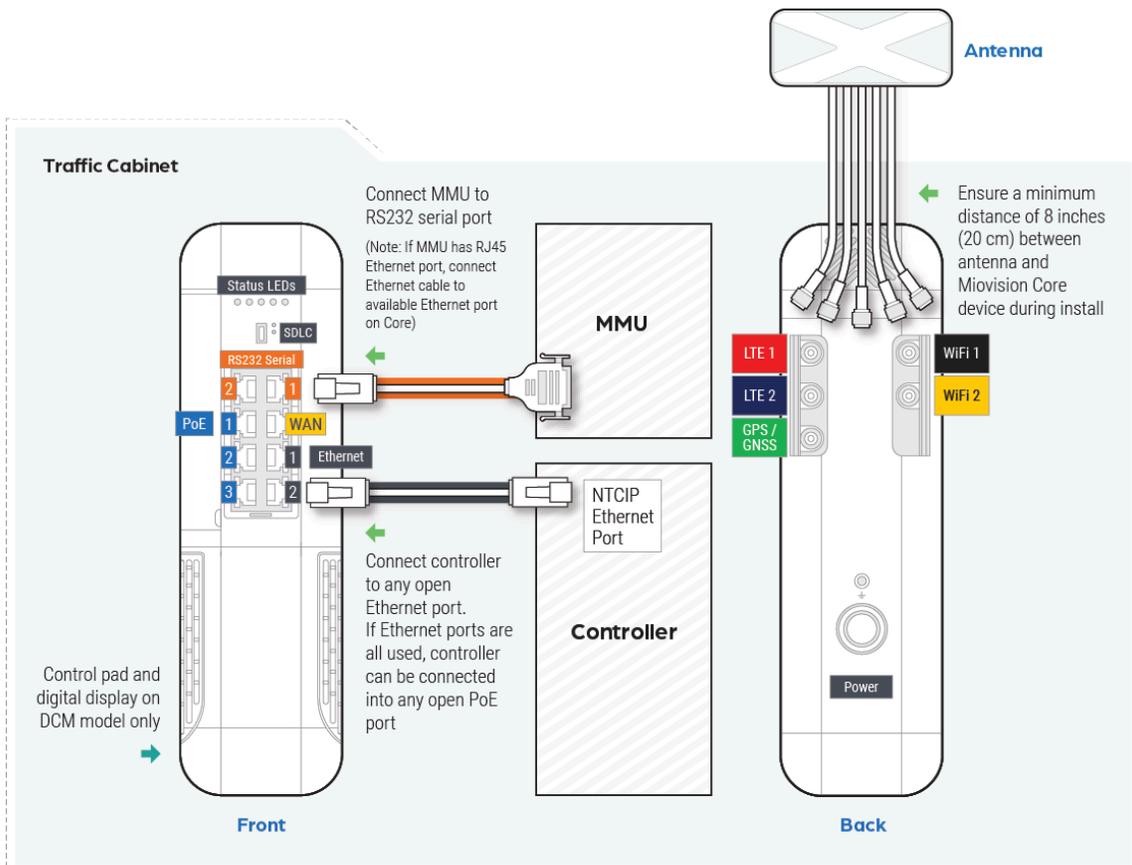
### Installation Considerations in the Cabinet

- For best ventilation, install the Miovision Core device vertically or horizontally with the glowing logo facing up. The status LEDs will flash red if the orientation is incorrect.

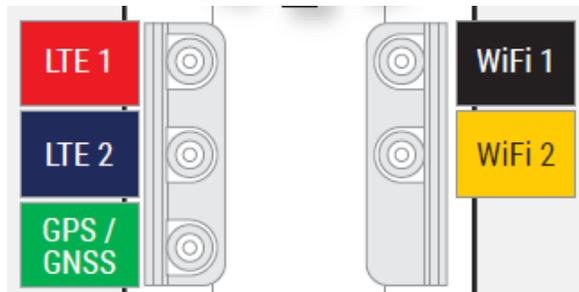


- Place the device with a minimum of 3 inches (76 mm) around it for ventilation, connecting cables, and access to the components during maintenance.

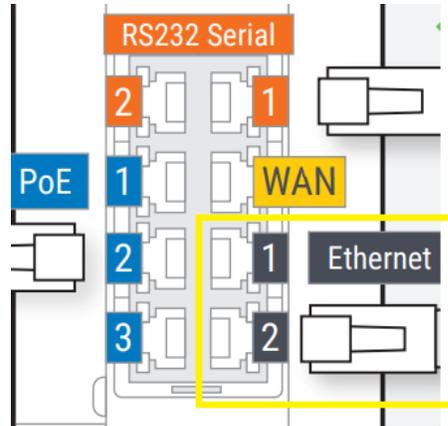
## Miovision Core Installation Steps



1. Place the Miovision Core in the planned location in the cabinet.
2. Using the color coding on each antenna cable as a guide, connect each antenna cable to the corresponding connector on the Miovision Core. See the Using a SmartLink Antenna section if you are using an existing SmartLink antenna.



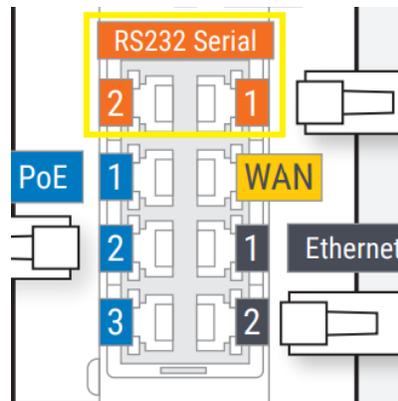
3. Plug your NTCIP-compatible controller into ports 1 or 2 (gray).



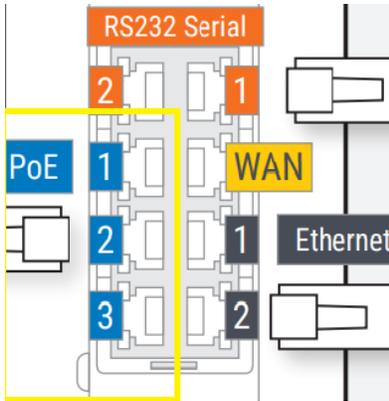
**Note:** Do not connect the controller's NTCIP connection to the WAN (yellow) port or serial ports (orange).

4. Connect to the MMU. If the MMU has an Ethernet port, connect it to an available Ethernet port on the Miovision Core. If not, connect the serial cable to an available RS232 Serial (**orange**) port and to the MMU's DB9 serial port.

**Note:** these connectors are RJ45 but carry a serial signal.

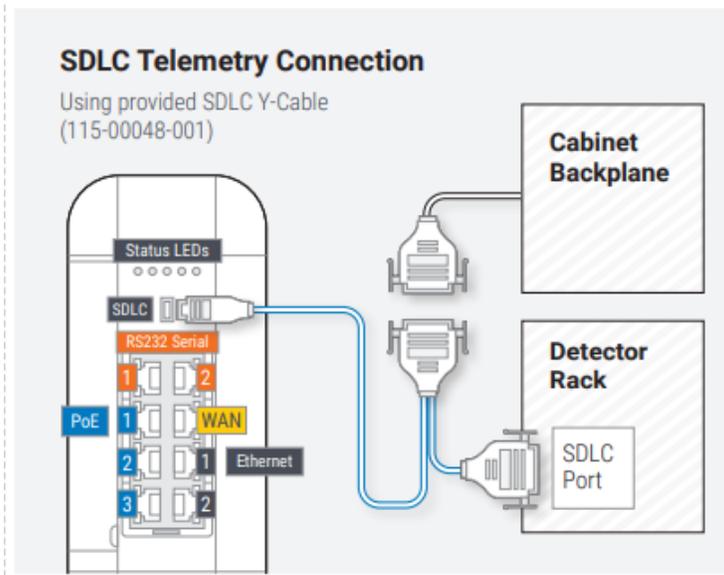


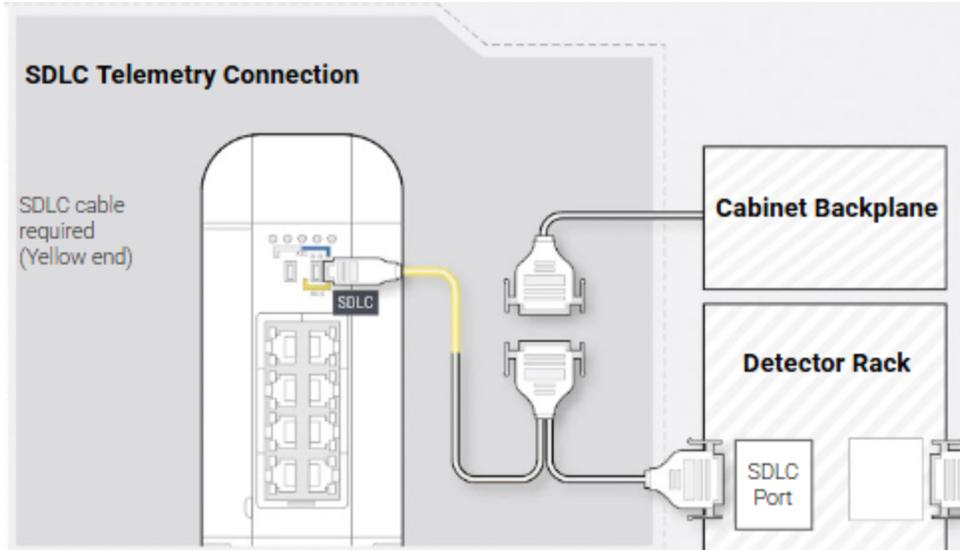
5. If using a SmartView camera to record video, connect the Ethernet cable from the SmartView 360 or SmartView Approach camera to an available PoE port (**blue**). Detection requires a Core DCM. For multi-camera setups, ensure each camera's Ethernet cable is plugged into an available PoE port or use the Miovision-approved PoE switch.



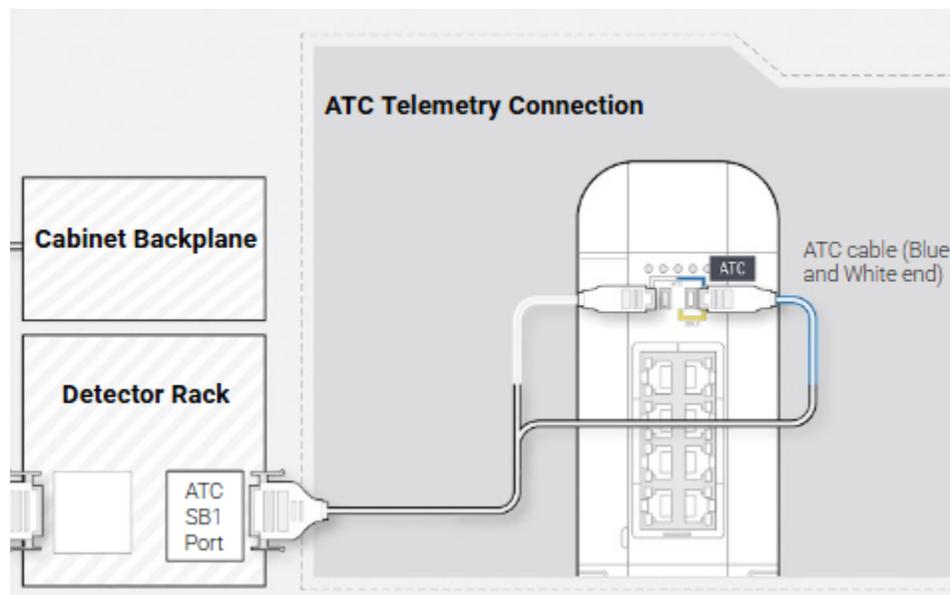
6. To enable monitoring of the cabinet's status beyond the controller, use the provided 5-pin header and wires to connect the Core to the cabinet. Up to four events can be monitored, including door open, controller status in flash, UPS battery in use, or UPS battery running low. Go to the Add Generic I/O screen in Miovision One to configure the pins to be monitored.
7. For telemetry over SDLC, use the provided SDLC DB15 Y-Cable to connect the Miovision Core's SDLC port to the cabinet's SDLC bus. Simply insert the Y-cable into the existing connection between the cabinet backplane and the detector rack. The cable end that connects to Core is yellow to match the SDLC port on the Core.

**Note:** For compatibility, you must use a Core SDLC cable. The Miovision Core device does not support using a previous generation of Miovision SDLC cable. Contact [Miovision Technical Support](https://support.miovision.com/s/) at <https://support.miovision.com/s/> for more information.





- To enable telemetry via ATC, connect the Miovision Core's ATC port to the cabinet's ATC Serial Bus 1 using the provided ATC DB25 cable. This cable has two keyed connectors for the Core DCM: the white-marked end connects to the left ATC port, and the blue-marked end connects to the correct port (also labeled SDLC). The keying prevents incorrect connections. Contact [Miovision Technical Support](https://support.miovision.com/s/) <https://support.miovision.com/s/> for more information.



- Plug or wire the end of the AC power cord into the power source. Plug the AC power cord (IEC C13) into the provided power adapter, ensuring a tight fit. Plug

the other end (NEMA 5-15 or region-specific) into the power source. If pigtail wires are required, cut the plug off the provided line cord and strip the wires back. **Note:** When plugging the Miovision Core into a power source, ensure a standard plug or power bar is used and not a GFCI receptacle. If a GFCI receptacle is the only power source, wire directly to a terminal block.

10. Plug the DC end of the power adapter into the connector located on the back of the Miovision Core. This is a locking connector that requires the outer sleeve to be pulled back to be inserted or released.

See "Start Up Miovision Core" below for information on how the device boots up once power is applied.

**Note:** Miovision Core receives isolated earth ground directly through the provided power adapter. If a stronger ground bond is required, attach the cabinet earth ground to the grounding lug located above the power port, on the back of the device.

## Using a SmartLink Antenna

If an existing Miovision SmartLink antenna is in the cabinet, it can be utilized to avoid removing it for the Core install. The performance/tuning will be the same, but the SmartLink antenna is labeled differently from the Core.

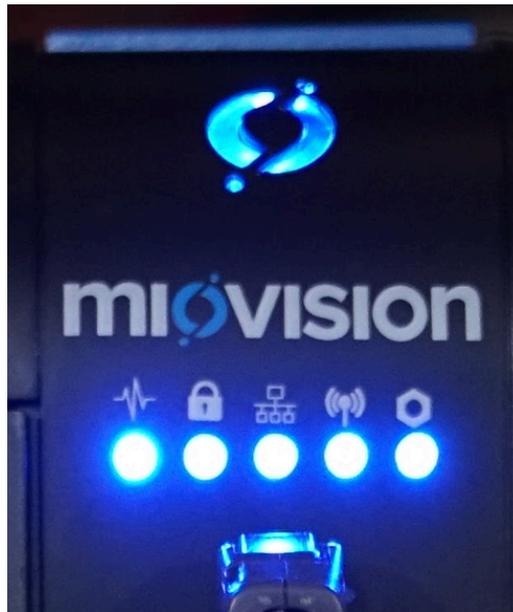
Cable mapping is summarized below:

SmartLink Antenna	Core Label
2G/3G/4G MIMO 1	LTE 1 (Red)
2G/3G/4G MIMO 2	LTE 2 (Blue)
GPS/GLONASS	GPS (Green)
2.4/5 GHZ MIMO 1	WIFI 1 (Black)
2.4/5 GHZ MIMO 2	WIFI 2 (Yellow)

The DSRC antenna does not get connected to the Core. That wire can be cut or secured inside the traffic cabinet.

## Start Up Miovision Core

Once the Miovision Core is installed in the cabinet, ensure the system starts up correctly. Verify that your device displays the following:



1. The Power LED is illuminated. (The Miovision symbol)
2. The Status LEDs are illuminated correctly. (Listed from left to right above)
  - a. Heartbeat: flashing blue.
  - b. VPN: solid blue.
  - c. WAN: solid blue.
  - d. Cell: solid blue.
  - e. State: flashing (booting) or solid (booted) blue.
3. If the SDLC or ATC cable is connected properly, the Rx and Tx LEDs on the device will blink when there is active communication with the controller.

Status LEDs				
<b>Heartbeat</b>	<b>VPN</b>	<b>WAN</b>	<b>Cell</b>	<b>State</b>
Flashing Blue Device Operational	Solid Blue Connected to Miovision cloud	Solid Blue Connected to internet	Solid Blue Cell connected Flashing Yellow Searching for cell Solid Yellow Less than 25% cell signal Flashing Red Modem fault	Flashing Blue Device booting Solid Blue Device online Flashing Red Device fault Flashing Yellow Updating SW

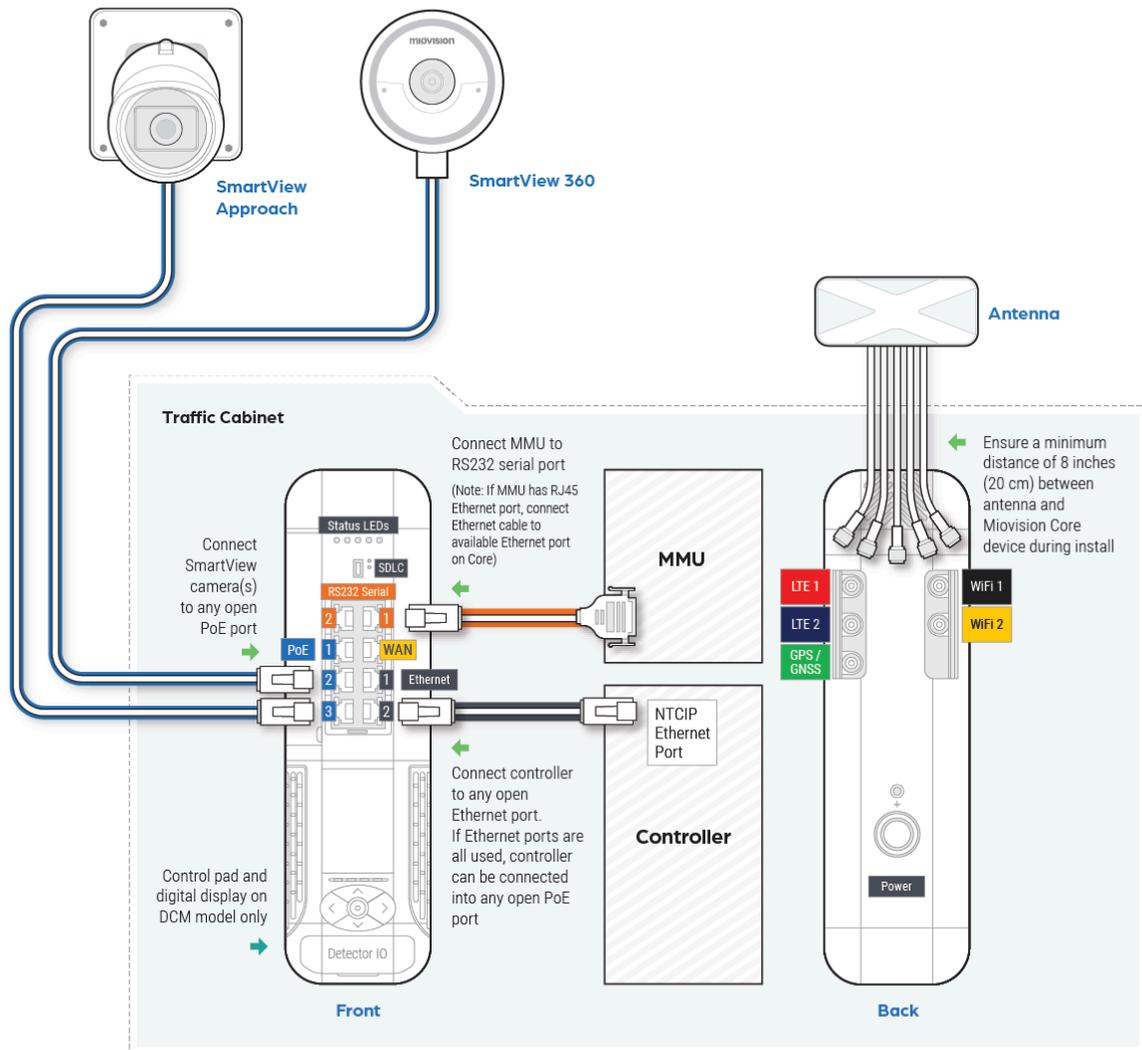
## Installation checklist

To ensure you complete all necessary steps to successfully install the Miovision Core at the intersection, bring a printed copy of the [Installation Checklist](#) to your roadside installation.

[https://miovision.my.salesforce.com/sfc/p/50000000a2wf/a/1T000001B9N9/NhES3v\\_8JEpVaWvW4SJFhWE.uULSN1BwGWWomTiDjWM](https://miovision.my.salesforce.com/sfc/p/50000000a2wf/a/1T000001B9N9/NhES3v_8JEpVaWvW4SJFhWE.uULSN1BwGWWomTiDjWM)

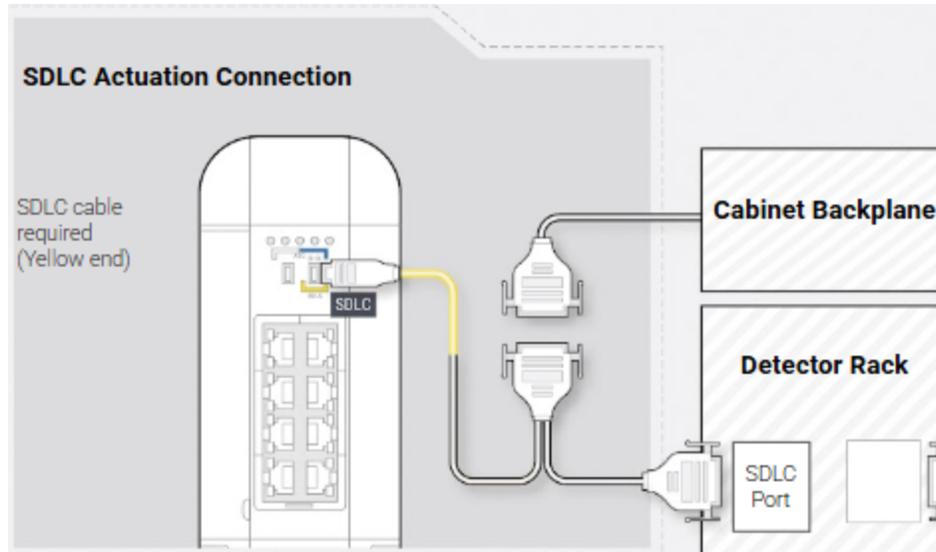
## Installing Miovision Core DCM

1. When installing the Miovision Core DCM device, complete the [Installing Miovision Core](#) steps 1-6 first (above). You can also review the following steps in the [Miovision Core DCM Installation](#) video tutorial. (<https://www.youtube.com/watch?v=I9IdHvMJD7I>)

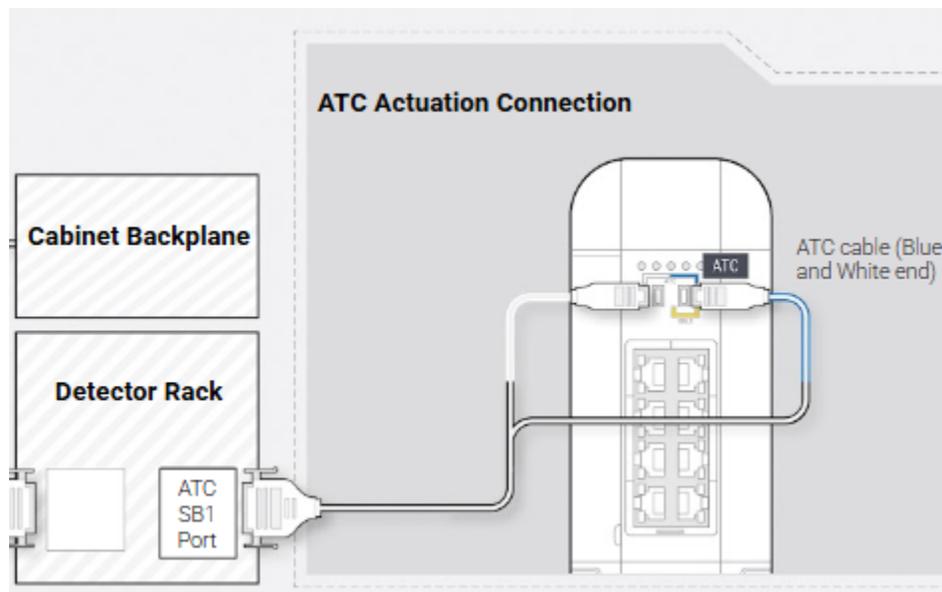


- For actuation over SDLC, use the provided SDLC DB15 Y-Cable to connect the Miovision Core's SDLC port to the cabinet's SDLC bus. Simply insert the Y-cable into the existing connection between the cabinet backplane and the detector rack. The cable end that connects to Core is yellow to match the SDLC port on the Core.

**Note:** You must use the provided SDLC cable for compatibility. Using a previous generation SDLC cable is not supported by the Miovision Core device. Contact [Miovision Technical Support](https://support.miovision.com/s/) <https://support.miovision.com/s/> for more information.



3. To enable actuation via ATC, connect the Miovision Core DCM's ATC port to the cabinet's ATC Serial Bus 1 using the provided ATC DB25 cable. This cable has two keyed connectors for the Core DCM: the white-marked end connects to the left ATC port, and the blue-marked end connects to the right port (also labeled SDLC). The keying prevents incorrect connections. Contact [Miovision Technical Support](https://support.miovision.com/s/) <https://support.miovision.com/s/> for more information.



4. Plug or wire the end of the AC power cord into the power source. Plug the AC power cord (IEC C13) into the provided power adapter, ensuring a tight fit. Plug the other end (NEMA 5-15 or region-specific) into the power source. If pigtail wires are required, cut the plug off the provided line cord and strip the wires back.

**Note:** When plugging the Miovision Core into a power source, ensure a standard plug or power bar is used and not a GFCI receptacle. If a GFCI receptacle is the only power source, wire directly to a terminal block.

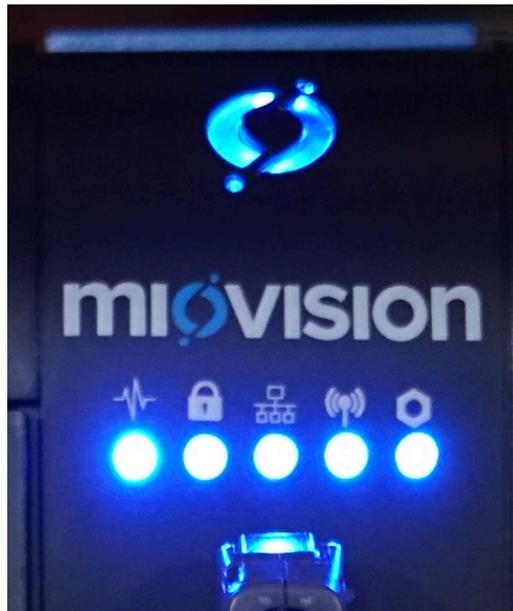
5. Plug the DC end of the power adapter into the connector located on the back of the Miovision Core. This is a locking connector that requires the outer sleeve to be pulled back to be inserted or released.

See “Start Up Miovision Core” below for information on how the device boots up once power is applied.

**Note:** Miovision Core receives isolated earth ground directly through the provided power adapter. If a stronger ground bond is required, attach the cabinet earth ground to the grounding lug located above the power port, on the back of the device.

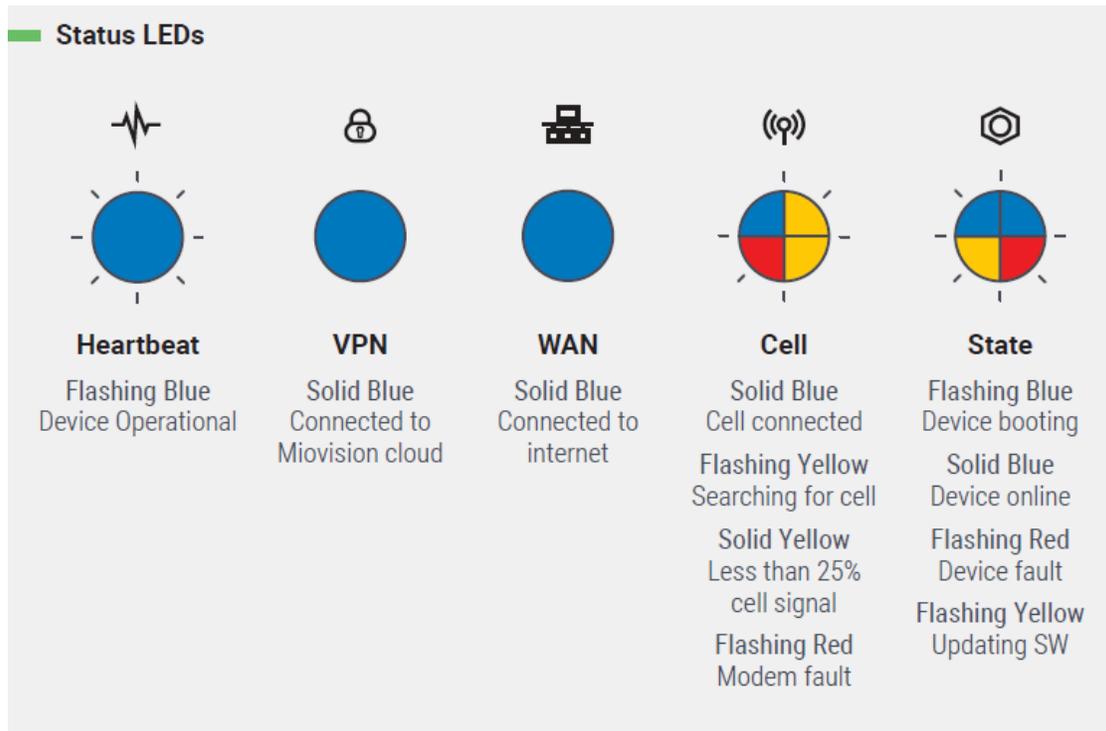
## Start Up Miovision Core DCM

Once the Miovision Core DCM is installed in the cabinet, ensure the system starts up correctly. Verify that your device displays the following:



4. The Power LED is illuminated. (The Miovision symbol)
5. The Status LEDs are illuminated correctly. (Listed from left to right above)
  - a. Heartbeat: flashing blue.
  - b. VPN: solid blue.
  - c. WAN: solid blue.
  - d. Cell: solid blue.
  - e. State: flashing (booting) or solid (booted) blue.

6. If the SDLC or ATC cable is connected properly, the Rx and Tx LEDs on the device will blink when there is active communication with the controller.



## Installation checklist

To ensure you complete all necessary steps to successfully install the Miovision Core DCM at the intersection, bring a printed copy of the [Installation Checklist](#) to your roadside installation.

<https://miovision.my.salesforce.com/sfc/p/50000000a2wf/a/1T000001B9N9/NhES3v8JEpVaWvW4SJFhWE.uJLSN1BwGWWomTiDjWM>

## Set up the Miovision Core DCM

The following section is only relevant to the installation of the Miovision Core DCM.

### Change the displayed language on Miovision Core DCM

Current language options are English or Canadian French.

1. Access the Main menu.
2. Press **Language**. The language screen will display the currently selected language.
3. To change the language, press **Select**.
4. Select the language you want to use.

## Establish camera connectivity for Detection or Counting

To connect the camera to the device:

- The camera must be turned on and plugged into the Miovision Core DCM PoE (Ethernet) port.
- The camera must be able to communicate with the network.
- The streaming service must be configured to detect the device.

### Camera Status

1. From the main menu, press **System**.
2. Press **Cameras**.

This will display the list of cameras connected to the Core DCM, their IP addresses, and their connectivity status, including:

Status	Meaning	Next steps
Unreachable	The camera is plugged into the Miovision Core but is not communicating with the network.	Check for breaks in the cable.
Streaming-Unconfigured	The camera is plugged into the Miovision Core and is communicating with the network. The DCM has not yet been configured for Detection or Counting.	Configure DCM Detection/Counting if desired.
Conflict	The camera is plugged into the Miovision Core and is communicating with the network. The camera is using the same IP address as another connected device (likely, another camera).	Resolve IP Conflict. See: <a href="#">Resolving IP address conflicts</a> .

Streaming-Passthru	The camera is plugged into the Miovision Core and is reachable. It is not being used for Detection or Counting by the DCM, and is simply serving as a camera stream source. In this state, it is likely that there is another camera that is successfully being used by the DCM for Detection or Counting.	If the camera needs to be used for Detection/Counting (e.g. as a Dual Camera), add it to the DCM Detection/Count configuration.
Booting or Fault	This status might display temporarily while the device boots, but it is also displayed when there is a camera error.	If status persists, further investigation may be required. Contact Technical Support.
Streaming-Fault	The camera has established connectivity but there is a technical issue that has interrupted the streaming service and further investigation is required.	Contact Technical Support.
Streaming-Processing	The camera has established connectivity and is being processed for Detection and/or Counting as configured.	n/a

## Resolving IP address conflicts

If a camera status is 'Conflict', you can resolve it at the roadside. The Miovision Core DCM **Install** menu will also be marked with an asterisk (\*).

1. Press **System**.
2. Press **Cameras**.
3. Use the panel buttons to toggle to the camera with the status **Conflict**. Select it..
4. Use the panel buttons to select a unique IP address that does not have an asterisk beside it and press to apply it. Record the IP address that you selected, since you will need to assign it to the device in the TrafficLink portal. It can take

up to 25 seconds to update the IP address. When it is successful, the camera status returns to **Streaming-Processing, Streaming-Passthru, or Streaming-Unconfigured**.

**Note:** IP addresses that are already in use by other devices that are connected to the Miovision Core are not displayed in the list.

5. To assign the IP address to the device in the TrafficLink portal, see [Configuring TrafficLink Detection in TrafficLink portal](https://help.miovision.com/s/article/Configuring-TrafficLink-detection-in-TrafficLink-portal).  
<https://help.miovision.com/s/article/Configuring-TrafficLink-detection-in-TrafficLink-portal>

## Configuration in TrafficLink

If Detection/Counting has already been configured in TrafficLink, your full system setup is complete.

If you have not completed this Configuration yet, please see the document **Configuring Core DCM for Detection and Counts in TrafficLink**.

<https://help.miovision.com/s/article/Configuring-Miovision-Core-DCM-for-Detection-and-Counts-in-TrafficLink>

An Installation Checklist is available on the DCM front panel:

1. From the front panel of Miovision Core DCM, press **Install**.
2. Press **Select**.

Camera port(s)	The camera status should read <b>Streaming-Processing</b> .
Miovision Core	The status should read <b>Up</b> . If the status reads <b>Down</b> : <ul style="list-style-type: none"><li>• The Ethernet cable might be damaged, improperly crimped, or not connected properly to a port on the Miovision Core.</li></ul>
WAN	The status should read <b>Up</b> . If the status reads <b>Down</b> , the Miovision Core is not currently providing the Miovision Core DCM access to TrafficLink.
CONFIG	The status should read <b>TMC+DET, DET, or TMC</b> .  If the status reads <b>None</b> , the Miovision Core DCM needs to be configured in TrafficLink.

ACTUATE	<p>If the Miovision Core DCM is configured, the status should read <b>Actuating</b> if you have already added the DCM device to the intersection in TrafficLink, or configured it for actuation mode.</p> <p>The DCM can be configured in TrafficLink so that detector calls are not sent to the controller. The status displays as Non-Actuate.</p>
MODE	<p>Ensure that the actuation mode matches the controller type. This status should read either <b>ABC, SDLC, GPIO</b> or <b>None</b>.</p> <p>If the actuation mode is <b>SDLC</b>, the display indicates when the Miovision Core DCM is receiving and responding to SDLC requests. An R and T character is displayed to represent the Receiving and Transmitting status. When a transmission is in progress, a square icon blinks next to the applicable character. If only the R character is displayed and a DCM detection configuration is deployed in TrafficLink, confirm that the detector rack is enabled on the controller.</p>
LOCATION	<p>If the Miovision Core DCM is configured, the location should match the intersection name in TrafficLink.</p>

## Monitor Miovision Core DCM Detection

Once a system has been fully installed and configured, the front panel allows you to view the states of all the configured detector channels.

### View Miovision Core DCM Detectors

All configured channels are displayed on one menu, regardless of how many are configured. For SDLC installations, the range of channels that are displayed corresponds to the Detector Rack you configured for your channels in TrafficLink.

1. To view the Detectors menu, use the up and down arrow buttons on the main menu.
2. Press the Select button or the right arrow button to view the detectors. Detector Racks are mapped as follows:

Detector Rack	Controller Channels
1	1 through 16
2	17 through 32
3	33 through 48
4	49 through 64

**Note:** If the Miovision Core I/O Configuration setting is set to **None** in TrafficLink to disable actuation, ACTOFF is displayed on the screen, and no detectors are shown.

## Determining the status of detectors

1. From the front panel, press **Legend**.



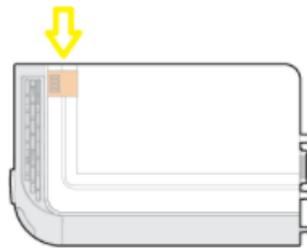
X	The detector is active and actuating normally.
R	The detector was activated manually in the TrafficLink portal.
F	The detector was activated after entering a failsafe mode or a degraded state, such as when a camera is disconnected.

# Upgrade Miovision Core to Miovision Core DCM

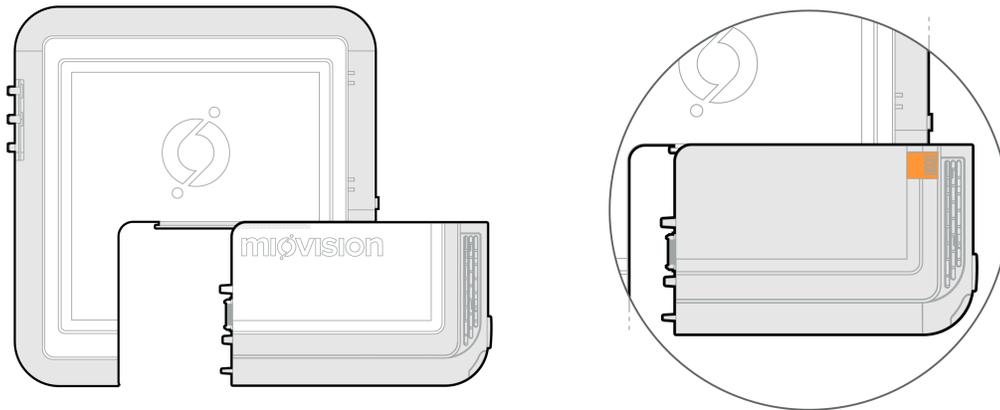
If your Miovision Core was purchased without video detection capability, it ships with a Fan Control Module (FCM). This is the black module at the bottom of the device with an orange release button. To upgrade the Miovision Core to enable Detection and Counts, the FCM will need to be removed and replaced with the supplied DCM module.

**Note:** The Miovision Core does not need to be unplugged while adding the DCM. The swap can be completed while the unit is operating.

1. Press in the orange button on the side of the FCM to remove from the Miovision Core. Apply pressure with your hands so the unit slides out.



2. Place the FCM in a safe location while you hold the Miovision Core device. Keep this module for future use.
3. Slide the DCM into the Miovision Core and listen for it to “click” into place. The DCM module should fit in the Miovision Core securely.



**Note:** The Miovision Core modules must be inserted into the guide features correctly as shown above. Incorrectly inserting Miovision Core modules may result in damage to the device.

4. Once the DCM has been inserted, the Miovision Core will apply power to the module, and the screen will turn on. Once the DCM has fully booted, it will show

up in the TrafficLink portal. Once the connection is complete, see [set up the Miovision Core DCM](#) in this document.

## Restarting Miovision Core

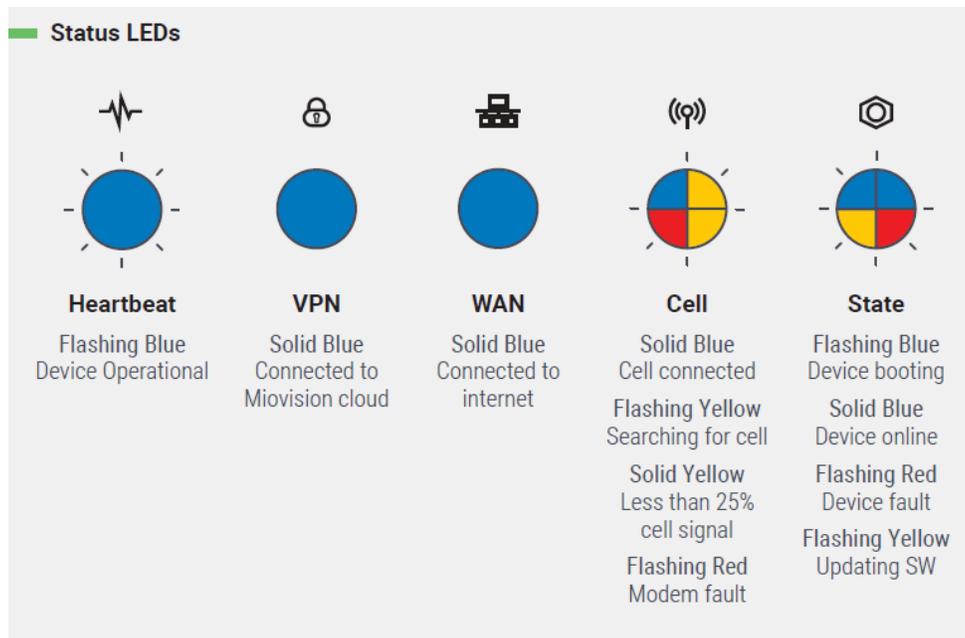
There are three options for restarting the Miovision Core device.

The device at the traffic cabinet	Press and hold the illuminated Miovision logo power button.
The device at the traffic cabinet	Unplug the Core, wait until the device powers off completely, and plug the device back in again.
Remotely from the TrafficLink portal	Contact Miovision Technical Support ( <a href="mailto:support@miovision.com">support@miovision.com</a> ) for assistance if this option is required..

## Review the Traffic Cabinet Before Leaving the Intersection

Follow these steps before closing the traffic cabinet.

1. Verify that the TrafficLink antenna is securely attached to the top of the cabinet.
2. Confirm that the LEDs on the Core device appear as follows:



3. If any of the tests fail, check that all cables and power supplies are properly connected. If issues still exist, contact Miovision Technical Support ([support@miovision.com](mailto:support@miovision.com)).
4. Take the following photos as part of the installation checklist:
  - A photo of the inside of the traffic cabinet that shows the placement of the Miovision Core components
  - A photo of the timing plan and wiring diagram (typically, the diagram is found in the cabinet pouch).
5. Fill out the [Installation checklist](#).  
<https://help.miovision.com/s/article/TrafficLink-Cabinet-Installation-Checklist>

## Miovision Technical Support

Technical support is available five days a week by live chat in TrafficLink portal, phone, or email during regular business hours (Monday-Friday, 7 am-6 pm EST/EDT). Certain restrictions and exclusions apply.

**Online:** <https://help.miovision.com/s/>

**Phone:** 1-855-360-7752

**Email:** [support@miovision.com](mailto:support@miovision.com)

## Safety Recommendations

To ensure safety during installation, follow these guidelines:

- It is recommended that a certified electrician perform the installation and that you follow the appropriate safety recommendations when installing the components.
- Do not install components if the conditions are not safe, such as during adverse weather situations.
- If possible, inspect the wires in the cabinet for any unsafe wear and replace them if necessary.

**FCC NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**Warning:**

Changes or modifications not expressly approved by Miovision Technologies Inc. could void the user's authority to operate this equipment.

**FCC ID:**

XMR201808EC25AF / XMR201903EG25G

SQG-60SIPT

**IC ID:**

10224A-2018EC25AF / 10224A-201903EG25G

3147A-60SIPT

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**Specifications outlined in this document are subject to change without notice.**