

How-to Guide Using the Avi-on ZoneScanner with Pro

Use your smartphone to scan Avi-on QR Stickers \rightarrow Assign Control Zones \rightarrow Install Fixtures

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For Avi-on Pro Technicians ONLY

The following sections are available for qualified Avi-on Pro Technicians ONLY

		Steps Requiring Avi-on Pro				
Complete <i>ZoneScanner Guide</i> for PMs →	<i>ZoneScanner</i> Cue Card for Electricians →	Import <i>ZoneScanner</i> Data →	Diagnose & Resolve Power, Wiring, & Fixture Issues →	Commission Avi-on Controls		
Click <u>THIS LINK</u> or scan QR→	Click <u>THIS LINK</u> or scan QR→		<u>Click</u> <u>THIS LINK</u> or scan QR→			
To save time, Avi-on recommends using the ZoneScanner from the start Starting over means returning to site to manually access and reset fixtures						
ZoneScanner data cannot be imported into the Avi-on Mobile Commissioning App Project Manager is responsible for using documentation to answer their questions						
Zone		11.13.20	24 © 2024 Avi-on Labs Avi-on	.com Page 2 of 12		

Why ZoneScan? Save time and money

Scanner





Want a digital copy of this guide? <u>Click this link</u> or scan QR at right $\rightarrow \rightarrow \rightarrow$

Use the Avi-on ZoneScanner Tool on your smartphone to rapidly scan fixture QR codes and assign control zones

PROJECT MANAGER → Setup ZoneScanner	ELECTRICIAN Scan QR Stickers→ Assign Zones→ Install Fixtures	PROJECT MANAGER Import ZS Data, Program Settings
Verify fixture assembly & QR sticker placement Use ZoneScanner to setup zones Train electricians to Scan→Zone→Install	On smartphone, click email invitation to download <i>ZoneScanner Tool</i> Turn on your phone's Wi-Fi or data Select correct 4-digit <i>location</i> for building Scan QRs→ Zone→ Install Successful ZoneScan is a flashing BLUE light	Use Pro to IMPORT & ADD ZoneScanner data, then assist Electrician in fixing power, fixture, & wiring issues Commission (program) settings
	Fix power, fixture, & wiring issues before leaving	
Project	Manager is responsible for training & managir	ng on all steps
	We recommend using the ZoneScanner from the star arting over means returning to site to manually access and re canner data cannot be imported into the Avi-on Mobile Com	eset fixtures
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Room-by-Room: ZoneScanner Workflow

Want to verify if a project's Avi-on location already exists? Go to <u>Avi-on.com/Contact</u> or scan this $QR \rightarrow$



Do not duplicate project locations. Devices cannot be transferred. Starting over means manually accessing & resetting devices

Steps for Project Manager (PM)	Steps for Electrician
I. Double-check fixture assembly: verify QR codes match inside & out	\downarrow
 II. Set up ZoneScanner: link your Avi-on username to project's location Request access to the Project's Avi-on location, or, if you are certain there is no location, use Pro to create a new location III. Create control zones-see details below IV. Invite Electricians to ZoneScanner Tool –see details below 	$\downarrow \\ \downarrow \\ \downarrow$
V. Lead electricians in ZoneScanner set-up & scanning practice $\leftarrow \rightarrow$	 Look in email for an invitation to project's Avi-on <i>location</i> & download the <i>ZoneScanner Tool</i> to your phone Use correct Avi-on 4-digit location for scanning Scan→Assign Zone→Install Fixture (verify BLUE light) Locate controls & take notes-see instructions
VI.Use Avi-on Pro to ADD & IMPORT ZoneScanner dataVII.Use Pro to DIAGNOSE & resolve power, wiring, & fixture issues $\leftarrow \rightarrow$ VIII.Use Avi-on Pro to commission controls (aka "program settings")	5. BEFORE LEAVING ROOM: resolve power, wiring, & fixture issues. If you need help, ask Project Manager to assist with <i>Avi-on Pro</i>

PM Step I: Double-check fixture assembly: verify that QR codes match inside & out

(A) Review the fixture verification, assembly, and end-of-line test procedures with the manufacturer

Click this link or scan the $OR \rightarrow$



(B) Verify that the MAC address of the Avi-on device matches the QR stickers on the fixture

(C) Verify that the Avi-on antenna is undamaged

NOTE: The

store

(D) Verify that wires in Avi-on node are seated firmly



PM Step II: Setup ZoneScanner Tool on your phone

(C) Use Pro to link your Avi-on username to the project's Avi-on location

If location is not listed, you need to ask for invitation to access it at Avi-on.com/Contact -or- if it doesn't exist, create a new location

DO NOT DUPLICATE LOCATIONS

New to Avi-on & need a personal username (aka "account")? Click LINK or scan QR \rightarrow



(D) If you don't have an invitation to a ZoneScanner location. use your PHONE to download the ZoneScanner Tool by clicking THIS LINK -or- scanning QR→

ZoneScanner is not available in app



(E) If you asked for access in (C),

...Look in your email for an invitation to the project's LOCATION, then click on the link to activate your connection



PM Step III: Create control zones

(F) In *ZoneScanner*, press the *Create Zone* button in upper right corner

(G) Name and save the new zone

(H) Practice adding a device to the zone: Click on the new zone, then press the QR code button in the lower right...scan device...and add to zone



PM Step IV: Use Pro to invite electricians to download the ZoneScanner Tool

(I) Create a different 4-digit Avi-on location for each building or phase of the project

(J) Use the Invite to ZoneScanner Tool button in Avi-on Pro to email a 4-digit code to each installer

Always use the correct 4-digit location code for a building or phase ZoneScanning to incorrect locations require manual resetting and re-scanning

PM Step V: Lead electricians in ZoneScanner set-up & scanning practice

Train electricians to ZoneScan using <u>Part III: ZoneScanner Quick Guide for Installing Electricians</u> Make sure to have each electrician practice ZoneScanning and assigning zones with their phone

Zone Scanner Set As Active

Invite To ZoneScanner App

PM Step VI: Use Pro to ADD Devices, then IMPORT ZoneScanner Data into Avi-on Pro

SEE "Room-by-Room: Avi-on Pro Workflow" (below) for a detailed i workflow

If you are unable to "see" all of the devices that you have scanned, please ask all *ZoneScanner Tool* users to connect their phones to Wi-Fi, open the *ZoneScanner Tool*, and then sync their *ZoneScanner* data with the cloud *Please advise them to wait several minutes*

At a high level, Avi-on recommends the following workflow for adding devices and importing ZoneScanner data

Use Pro to ADD Devices, Commissioning → Add New Devices → Select All → Add Devices Use Pro to IMPORT ZoneScanner data, Installer Tools → ZoneScanner App Import → Sync Selected Zones

PM Step VII: Use Pro to assist in resolving power, wiring, & fixture issues

Use *Pro* to DIAGNOSE & resolve power, wiring, & fixture issues Make sure your laptop is connected to the internet

- After creating the groups, test by turning on and off the entire group from Pro
- If any lights do not turn on or off, use discover devices and set TTL to max to see if a device did not make it to the cloud
- If group has correct number of devices, but some don't respond, select all→ cmd+D → Start Diagnose
- Work with the electricians to fix power, fixture, & wiring issues before they leave

Refer to Pro training about using the DIAGNOSE function in Pro



Refer to your project's building code requirements and/or the published Sequence of Operations (SOO), then program the correct settings in Pro

Avi-on recommends using *Pro* to commission (program) controls in the following order. Functional details are in the *Avi-on Pro User Manual,* available to qualified and trained Pro technicians

Recommended Order of Commissioning

- 1. Groups
- 2. Wall Stations
- 3. Motion Sensors
- 4. Network Time Manager (NTM)
- 5. Schedules, Sensor Schedules (requires NTM)
- 6. High/Low End Trim
- 7. Super Controllers
- 8. UL924 Devices



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ZoneScanner FAQs for Qualified Avi-on Pro Technicians Only

Q1: How does the ZoneScanner speed installation?

The *ZoneScanner* is like a 'smart notebook: electricians download the *ZoneScanner Tool* to a smartphone, then use the camera to scan QR codes, assigning the fixtures to specific project zones as they install

Q2: When using Avi-on Pro, why ADD devices before IMPORTing ZoneScanner data?

- ADDing devices to a project's account (aka 'claiming') embeds a unique security key in the device's memory. *Devices must be* powered
- IMPORTing ZoneScanner data will automatically convert zones into groups. Groups can be ASSOCIATED with sensors or wall stations so you can quickly program large areas
- Always ADD devices before you IMPORT ZoneScanner data

Q3: How should I name my Avi-on devices so that I can easily filter them later?

The *ZoneScanner* automatically names devices using the *Product Name* + *Last* 4 *Digits of MAC* on the QR sticker. The following info may help you to filter/program similar devices

- Emergency devices: Add ! to end of device name
- Daylight zones: Add * to end of zone or group
- Daylight harvesting controller: Add ** to end
 Devices w/ 3rd party wired sensors: Add % to end of device name

Example: [Class 0927]-3DC6-IFAC! = room number, the last 4 of the MAC, product, and that it is an emergency fixture

Q4: What is the best way to SCAN-POWER-ADD-IMPORT?

1) Scan-Zone-Install ALL devices using ZoneScanner. Devices do not have to be powered

2a) Power devices in a SMALL AREA

2b) ADD ('claim') devices to the project's LOCATION. Login to Pro, and ADD everything that is powered and pinging (aka 'visible in Pro'). *This step may take several minutes*

2c) As devices ADD, check that they are operating properly:

address any failures to ADD and follow prompts. At this stage, you can individually control on/off. *If you cannot ADD a device, then it is not powered.* Use *Electrician's Checklist* to resolve power & wiring issues \rightarrow



2d) If Avi-on Direct Connect Sensors are installed after

devices are added above, then you may need to use Pro to separately DISCOVER (FIND) sensors, bringing them into the *Location*

- 3) Repeat #2a-2d until all areas are powered & ADDed
- **4)** <u>Download ZoneScanner data.</u> Once ALL devices are ZONESCANNED, POWERED, <u>and</u> ADDED, then use Pro to download the ZS data to your project's account (Mobile cannot download ZS data). *The ZoneScanner will automatically assign zones to groups. Details* →



5) Program groups + individual devices according to project's Order of Operations per Prewire Meeting



Avi-on Pro + ZoneScanner Flowchart

Want to check if a Location already exists? Go to <u>Avi-on.com/Contact</u> or scan the QR code \rightarrow





Do not create duplicate locations, as they cannot be combined

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ZoneScanner: Quick Guide for Installing Electricians

Want a digital copy? <u>Click this link</u> or scan $QR \rightarrow \rightarrow \rightarrow$

Step 1 for Electrician: Download the ZoneScanner Tool & link it to the project's location

Download the ZoneScanner Tool and link it to the project's Avi-on location:

Check your email for an invitation to the project's LOCATION, download the ZoneScanner Tool, and use the 4 digit code to activate your connection

If you don't have an email invitation, please contact your Project Manager for access

ZoneScanner is not available in any app store

Using ZoneScanner saves time & money. Failure to scan accurately can cause the loss of hundreds of man-hours to visit & correct on site

Step 2 for Electrician: Scan QR \rightarrow Assign Zone \rightarrow Install

MAC: EC0610153D0

- Scan QR sticker on outside of fixture, then add it to the correct zone
 - For best results, <u>all phones</u> need Wi-Fi or data ON
- Use ZoneScanner to scan devices (IFAC, LVFA, XFAC) as well as most wall stations
- >> THERE IS NO NEED TO SCAN SENSORS <<
- Zonescanner 'names' the device using the last four digits of the MAC address on the sticker. See example of MAC → → →
- FOLLOW YOUR PROJECT'S NAMING CONVENTIONS









Step 3 for Electrician: Locate controls & take notes

Use NOTES to record sensors & other devices

- Document stand alone Bluetooth sensors, and other devices in the NOTES section of each zone
- If data or Wi-Fi is not available during scanning, all ZoneScanner users must periodically connect their phones to Wi-Fi or Data and open their ZoneScanner to sync. This may take several minutes. A check box will appear in the top left corner of the ZoneScanner when complete data is synced. NOTE: Until data from ALL individual ZoneScanner Tools are synchronized with the cloud, devices will appear only on individual phones



Step 4 for Electrician: Resolve Power, Wiring, & Fixture Issues BEFORE LEAVING SITE

Use the <u>Electrician's Checklist</u> to resolve power, wiring, fixture, & driver issues before you leave the site. *Click the link above scan QR at right* \rightarrow



Need help? If you installed an Avi-on LTE Bridge when the site was powered, you can request assistance from an Avi-on Remote Technician at <u>Avi-on.com/Contact</u> or scan QR at right \rightarrow



Project Managers

For a copy of the ZoneScanner Guide, <u>CLICK THIS LINK</u> -or- scan the QR \rightarrow



Avi-on Pro Technicians Avi-on Pro for certified professionals <u>CLICK THIS LINK</u> -or- scan the QR



