

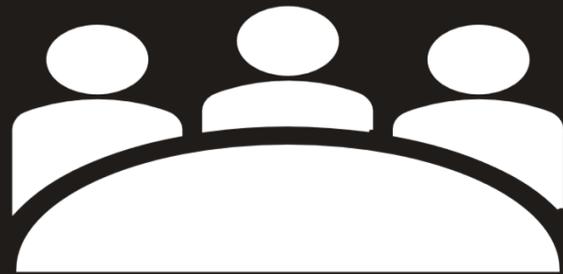
BODYGUARD

VEHICLE DAMAGE DEFENDER

Version 1.1 – September 2023

BLINNOVARE

Meet the Team





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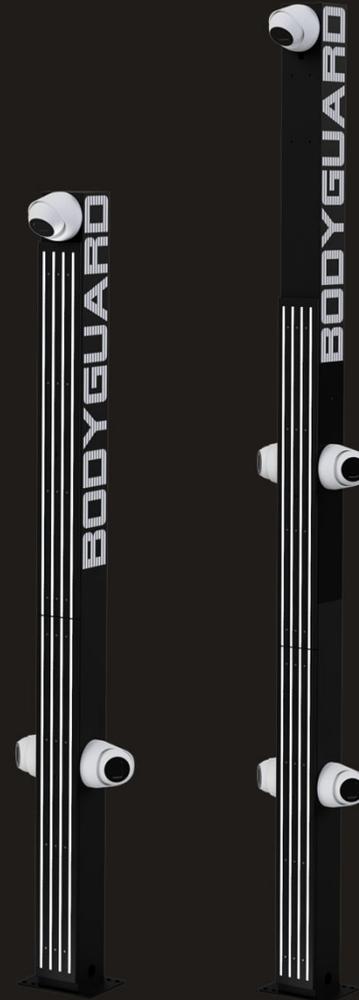
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Agenda

- Product Versions
- Sample Installations
- Site Preparation
- Physical Installation
- Testing
- Software Tools / Web Application
- Q&A

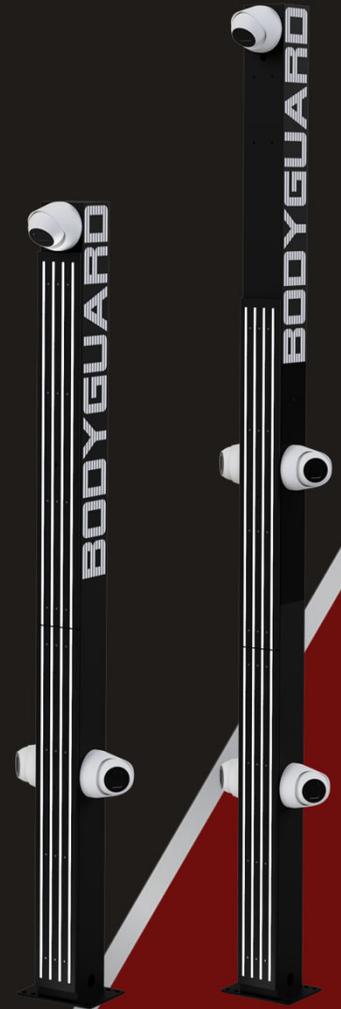
Versions

- Indoor
 - Regular
 - Tall Version
- Outdoor
 - Regular
 - Tall Version



Key Differences

- Cable Requirements
- Installation
- Server Box
- Number of Cameras



Key Differences

Cabling Specifications			
Indoor		Outdoor	
Regular	Tall	Regular	Tall
1 x 16AWG 2-conductor	1 x 16AWG 2-conductor	1 x 16AWG 2-conductor	1 x 16AWG 2-conductor
1 x Cat5 network cable	1 x Cat5 network cable	4 x Cat5 network cable	6 x Cat5 network cable



Sample Installations

Entrance – Top Conduit



Entrance – Bottom Conduit



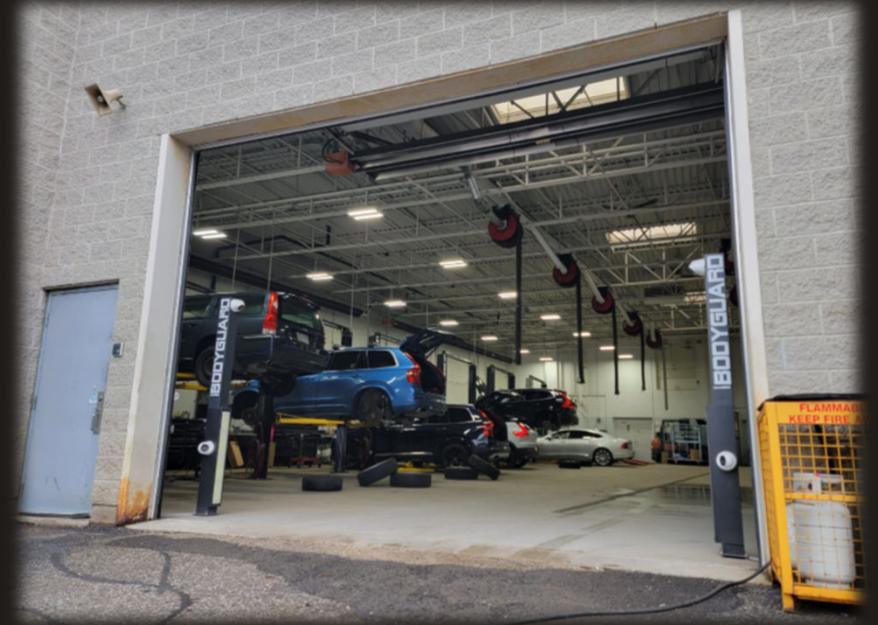
Note: Local electrical standards may require conduit for cabling.

Indoor – Dark Location



Conduit from Ceiling
From Floor to BG

Entrance & Exit Coverages



Outdoor – Tall Installation



Conduit along ground
Always install in concrete

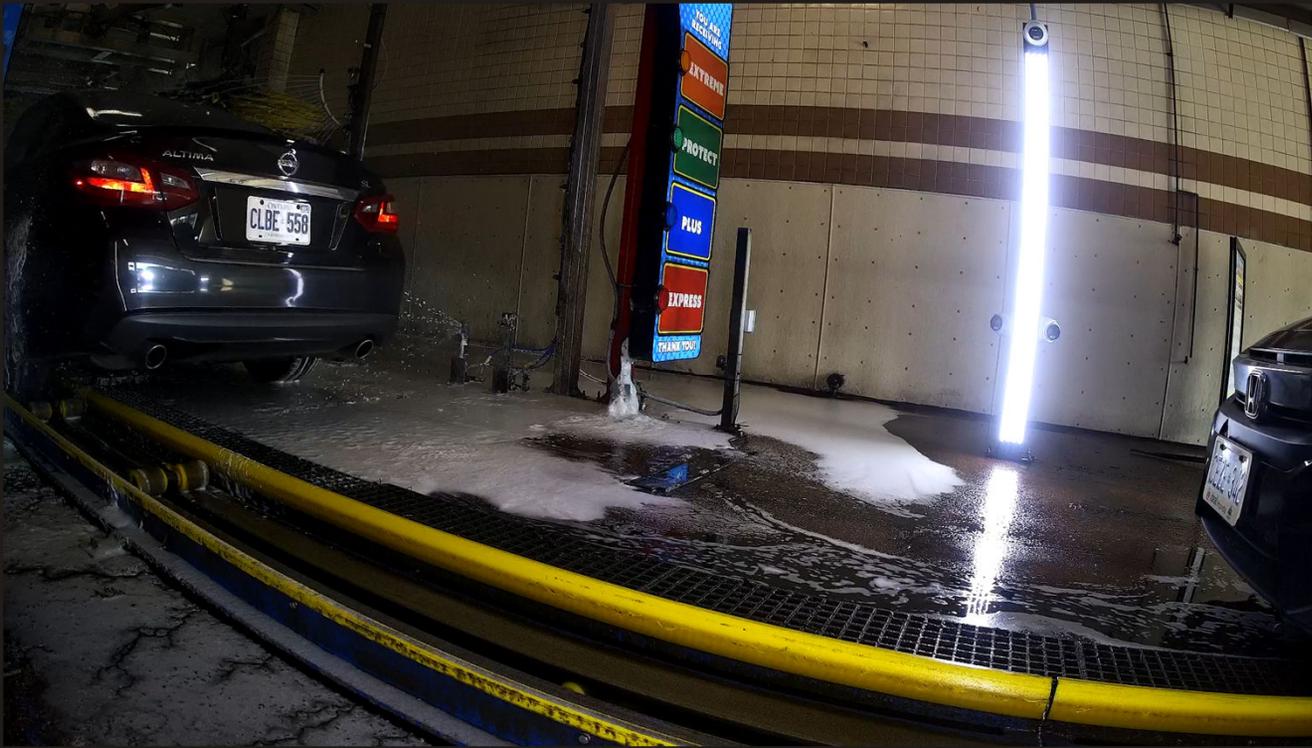
Outdoor – Tall Installation



Carwash Entrance



Carwash Entrance



BODYGUARD for a BODYGUARD



Not Optimal



- 16ft Apart
- Approach At Angle

Implications:
Image Quality & LPR Effectiveness

Mounting Plate - Temporary Installation



Mounting Plate – Trade show



Cut the carpet and placed
Mounting plate under carpet



Product Installation

*Pre-Installation, Internet, Power,
Physical Location*



Site Preparation

Internet requirements

Knowing whether a site has acceptable internet bandwidth and how to access it before installing a BODYGUARD helps make installations smoother and reduces the number of visits required.

Internet Requirements:

- Wired Connection to Server box
- Uses DHCP
- Requires ability to make HTTPS outbound requests on port 443
- VPN traffic cannot be blocked
- 15 Mb/s upload Speed (typical dealership traffic)
- Each recording about 100MB



Site Preparation

Internet requirements



Time Saving Tip

You can have the site test the internet connection PRIOR to installing to save time:

- Plug wired connection into laptop
- Open browser
- <https://app.bodyguardcam.com> should be accessible
- This does not confirm VPN is open



Cable Requirements



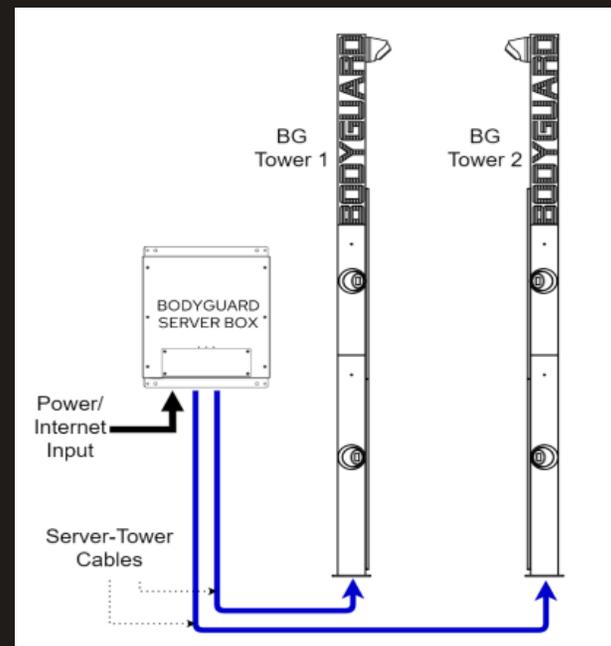
Cabling can be done before the arrival of the hardware

To the SERVER

- 120-240VAC using locally sourced IEC C13 power cable
- Internet access

From the SERVER to EACH TOWER

- 1 x 16 AWG 2-conductor
- 1 x Cat6 network cable for indoor systems
 - 4 x if outdoor, 6 x if outdoor-tall





Shipment



Model

Server Number
(needed for setup)

Right/Left Tower



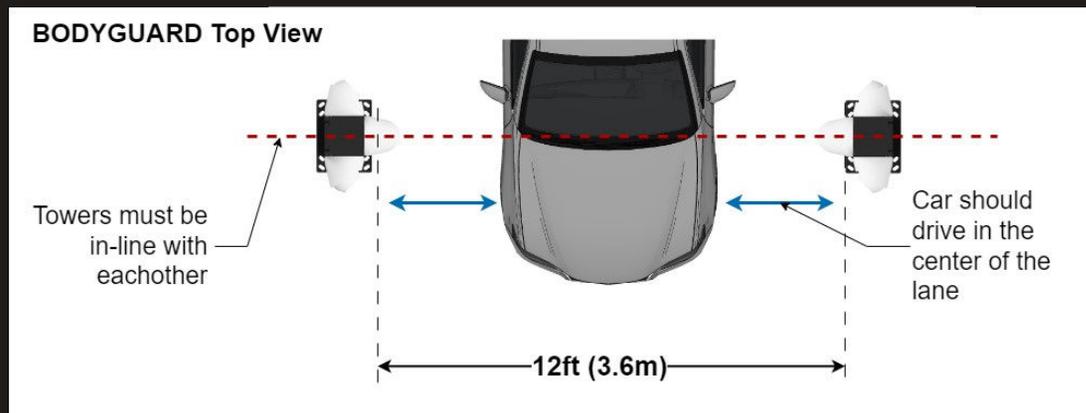
Physical Location

Tower Placement



Pick primary direction of travel – then that is left..

- Tower Spacing:
 - 12 feet (3.6m) Ideal distance
 - 10-16 feet (3-5m) – allowable distance – sacrifice image quality
- Towers Must be in line and facing each other (sensors lined up)
- Placement – cameras clear view





Physical Location

Tower Spacing

10ft

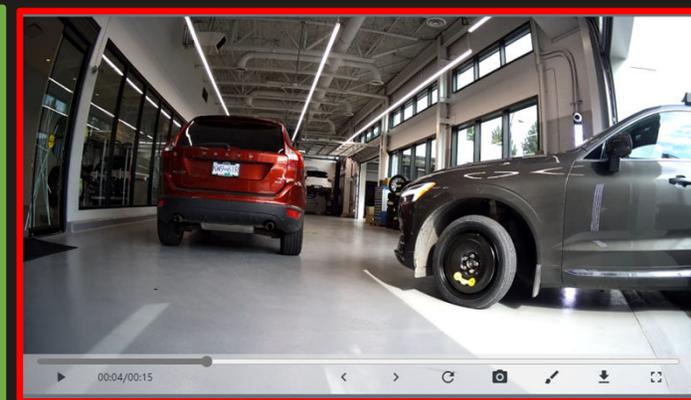
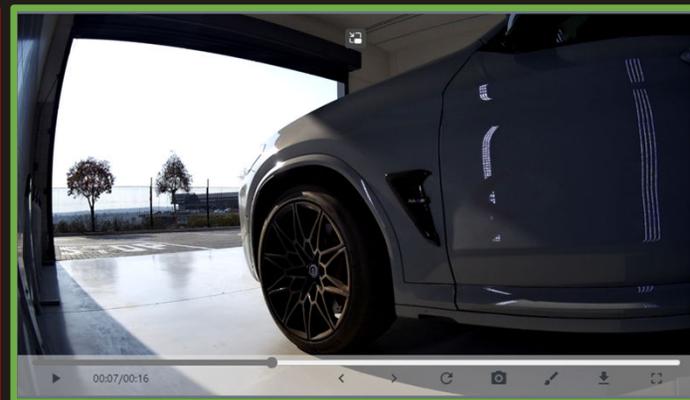
- Car is *forced* to drive very close to the cameras
- Can't see some of the bottom of the car

12ft

- Car is *forced* to drive down the center of the lane
- Good view of full side of car

16ft

- Car is *allowed* to drive very far from the cameras
- Hard to see small details and dents.





Powering on



- Important to plug in and test **power** cables before connecting **network** cables.
- If power cables are reversed while the network cables are plugged in, it could cause a short in one of the circuit boards
- These instructions are noted on the **sticker** in the box.



Installation Confirmation

- ✓ Plug BODYGUARD into Power – Wait 3-5 minutes for start-up sequence to run
- ✓ System will FLASH 3 times on power-up: This is HARDWARE setup
- ✓ System will FLASH 5 times when ready to go: SOFTWARE is running
- ✓ Walk Between the towers – photo sensor beam between Towers is “broken” and the lights should go on and then off as you pass through.
- ✓ Drive Vehicle through towers – Crossing should be uploaded to Cloud

Tip: If something is blocking the photo sensors lights will remain on 30 seconds and then turn off.



Installation Confirmation



For Indoor Version:
Plug Ethernet cable from laptop to
Diagnostic port in Server Box



Open web browser: <https://192.168.20.10>

For Outdoor Version:
Plug Ethernet cable from laptop to
spare port on POE switch.



Tip: Alternatively find the DHCP address assigned to the Server and connected to local network open web-browser to the server assigned IP Address.



Installation Confirmation



BGSRV PROD 246 Home Support Logout

Lane Active

Left Front 192.168.20.11 Active	Left Back 192.168.20.12 Active	Lane Stats System Uptime: 24.0 Hour(s) Lane Uptime: 24.0 Hour(s) Lane Disconnects: 1 Recording Volume: 117 Vehicle Volume: 44	2023-08-30 13:17:26 CVRB311 - 100%	2023-08-30 13:10:20 CVRB311 - 100%
Left Top 192.168.20.13 Active	Right Front 192.168.20.14 Active		2023-08-30 12:50:56 DEV10 - 100%	2023-08-30 12:32:08 TER0AT - 100%
Right Back 192.168.20.15 Active	Right Top 192.168.20.16 Active	Recent Logs Tower 192.168.20.107 lock rate Crossing 30068 started - Vehic Changing LED state: True Changing crossing state: True Tower 192.168.20.106 lock rate		

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Drive a few vehicles through the system – after few minutes of processing vehicle recording will appear

6-cameras System
Everything in order!



Installation Confirmation



BGSRV PROD 238 Login

Lane Disconnected

Right Front 192.168.20.11 Active	Right Back 192.168.20.12 Active	Lane Stats System Uptime: 798.0 Hours) Lane Uptime: 0 Hours) Lane Disconnects: 0 Recording Volume: 0 Vehicle Volume: 0	2023-07-25 12:24:52 100%	2023-07-25 00:32:37 100%
Right Top 192.168.20.13 Active	Left Back 192.168.20.14 Active		Recent Logs Exception during tower loop 19 Exception during tower loop 19 Tower 192.168.20.110 connectio Tower 192.168.20.199 connectio Tower 192.168.20.110 connectio	2023-07-24 23:15:18 100%
Left Front 192.168.20.15 Active	Left Top 192.168.20.16 Active			

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6-cameras System

Lane Disconnected

Suspected Reason: Both towers disconnected



Installation Confirmation



BGSRV PROD 980 Login

Lane Disconnected

Right Front 192.168.20.11 Offline	Left Back 192.168.20.12 Offline	Lane Stats System Uptime: 5.0 Hours(s) Lane Uptime: 0 Hours(s) Lane Disconnects: 0 Recording Volume: 0 Vehicle Volume: 0	2023-06-26 18:22:04 57%	2023-06-26 18:29:28 60%
Left Front 192.168.20.13 Offline	Right Back 192.168.20.14 Offline		Recent Logs Waiting 10s to retry connectio Unable to connect to master ba Low connecting to identityUS Over connecting to identityUS Waiting 10s to retry connectio	2023-06-26 18:27:54 60%
Right Low Back 192.168.20.15 Offline	Right Top 192.168.20.21 Offline			
Left Low Front 192.168.20.22 Offline	Left Low Back 192.168.20.23 Offline			
Left Top 192.168.20.24 Offline	Right Low Front 192.168.20.25 Offline			

10-cameras System
Lane Disconnected & Cameras Offline



Installation Confirmation

BGSRV PROD 1056 Login

Lane Disconnected

Right Front 192.168.20.11 Active	Right Back 192.168.20.12 Active	Lane Stats System Uptime: 3.0 Hours Lane Uptime: 0 Hours Lane Disconnects: 0 Recording Volume: 0 Vehicle Volume: 0	2023-08-29 12:03:48 100%	2023-08-29 12:02:17 100%
Right Top 192.168.20.13 Active	Left Back 192.168.20.14 Offline		Recent Logs Waiting 10s to retry connectio Timeout exceeded Camera 1305-LFT BCK (192.168.2 Camera offline Waiting 10s to retry connectio	2023-08-29 12:01:17 100%
Left Front 192.168.20.15 Offline	Left Top 192.168.20.16 Offline			

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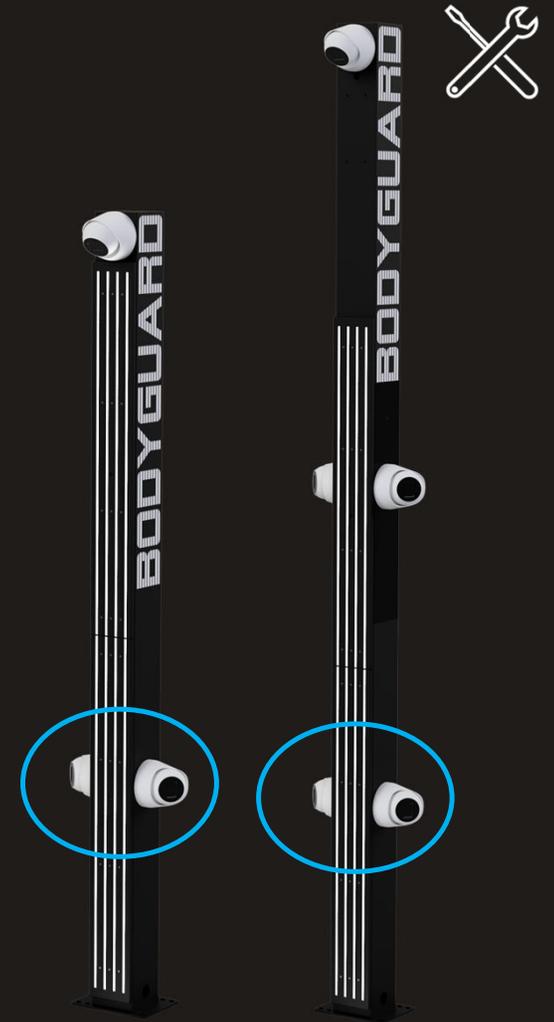
LEFT Side Tower is off-line

6-cameras System
Lane Disconnected & some cameras offline
Suspected Reason: Tower board not providing power



Camera Angles

- The width of the lane will affect the camera angles
- **Cameras** are used for license plate recognition
- Goal is to angle the cameras to get full vehicle coverage
- Ideally most locations on the car have multiple camera angles





Camera Angles



BODYGUARD Home Profile Support Admin Logout

SN298V -- Aug. 31, 2023, 12:09 p.m.

Left Back Left Front Left Middle Right Back Right Front Right Middle Previous Recordings

Recording Info
 Vehicle damaged
Details

Save

00:00/00:18

Report Issue Edit Download Upload

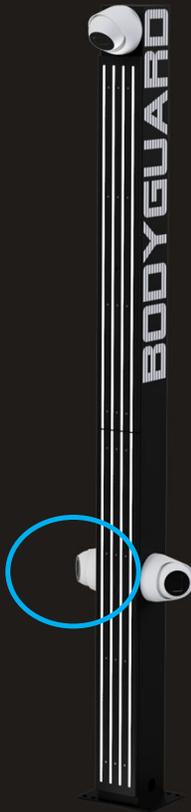
Through recordings list
View a vehicle passing
through towers thru
each camera to ensure
coverage



Camera Angles



Right front camera angle is good
Light bar visible on car as it
passes through





Camera Angles



Camera angled too high – no light bar visible on vehicle





Camera Angles



Middle of the frame is
Approximately middle of the lane
Can see bottom half of tower

Top camera angle is decent, can see about
 $\frac{1}{2}$ roof and side of vehicle



Camera Angles



Middle of the frame is NOT middle of lane! Too high

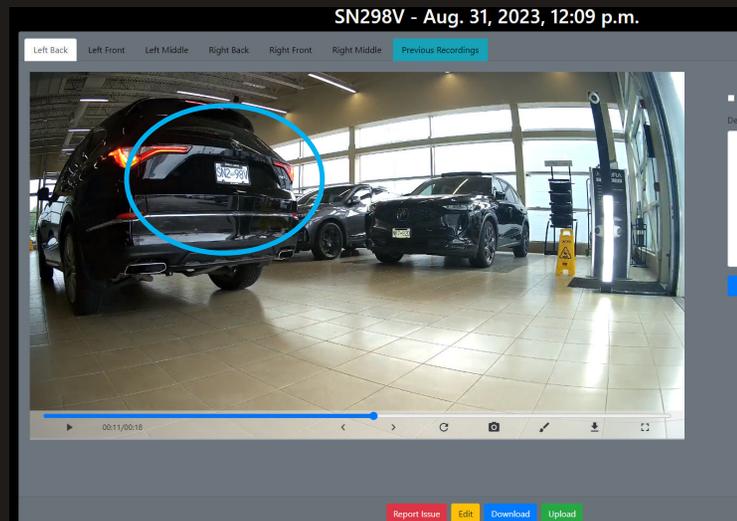
Top camera angle is too high and missing most of middle of vehicle.



Camera Angles



Tip: The license plate can be read either from front of vehicle (if available) or back of vehicle. For back plate readings the vehicle MUST pull all the way through the towers and far enough that lower front camera can see plate.





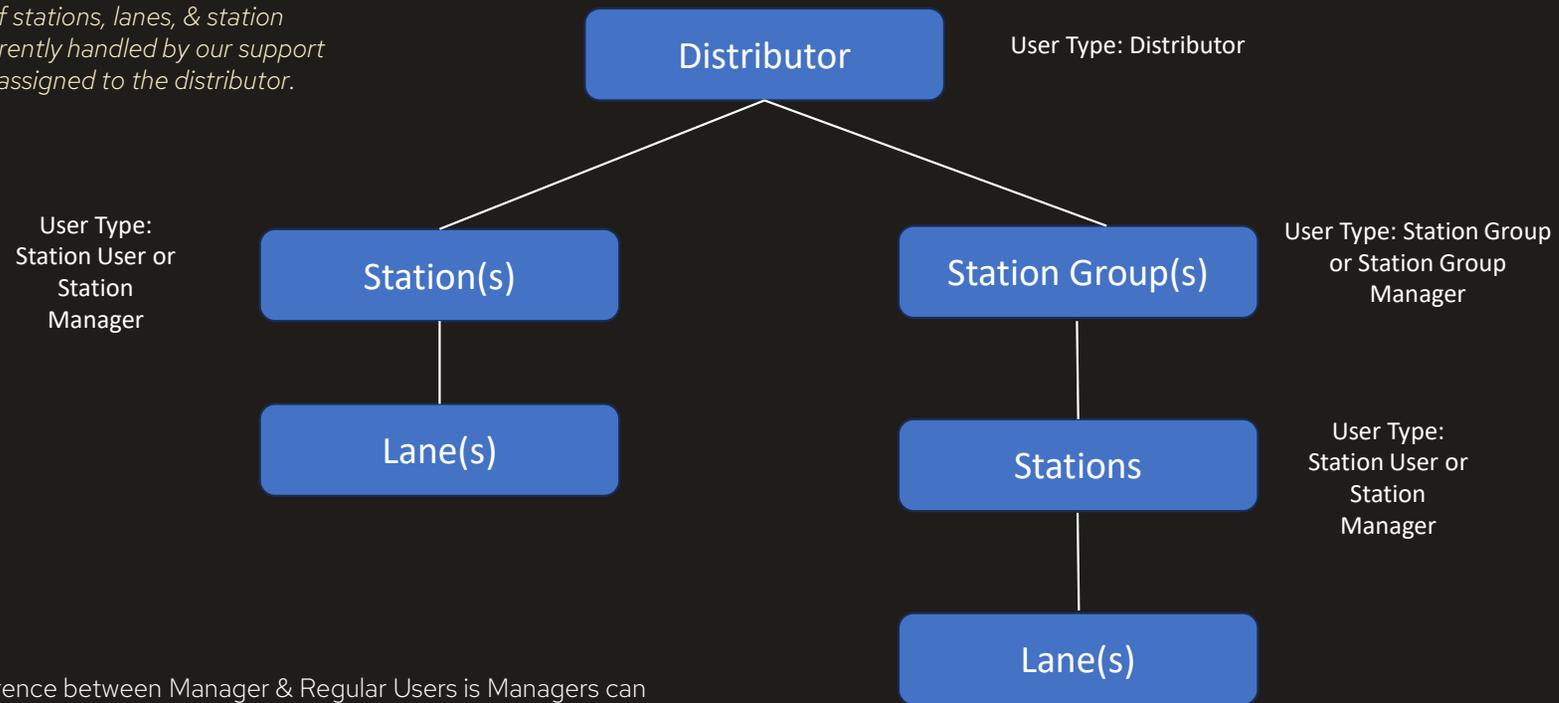
Distributor Tools
&
Supporting Customers



Cloud Portal – User Organization

Terminology

Creation of stations, lanes, & station groups currently handled by our support Team and assigned to the distributor.



Difference between Manager & Regular Users is Managers can manager user accounts (add/update/delete)



Cloud Portal

<https://app.bodyguardcam.com>

Click here for "Health"
Check

Stations Managed by this
Distributor

The screenshot shows the BodyGuard Cloud Portal interface. The browser address bar displays <https://app.bodyguardcam.com/stations/>. The page header includes the **BODYGUARD** logo and navigation links: Home, Profile, Dashboard, Station Users, and Logout. A search button is located in the top right corner. The main content area is titled "Stations" and contains a table with the following data:

Active	Name		
✓	CARBIZ - Indoor Demo Station	Dashboard	Recording List
✓	CARBIZ - Outdoor Demo Station	Dashboard	Recording List

At the bottom of the screenshot, there is a copyright notice: © 2023 by BL Innovare.

Quick Status check



Cloud Portal

<https://app.bodyguardcam.com>

The screenshot shows a web browser window displaying the Bodyguard Cloud Portal. The page title is "BODYGUARD" and the navigation menu includes "Home", "Profile", "Dashboard", "Station Users", and "Logout". The main content area is titled "CARBIZ Active Lanes" and contains a table with the following data:

Station	Lane	Last recording	Online	Lane active	Cameras active	
CARBIZ - Indoor Demo Station	bgsrv-prod-1387 generated lane	22 day(s) ago	✘	!	!	Recordings
CARBIZ - Outdoor Demo Station	bgsrv-prod-1382 generated lane	22 day(s) ago	✘	!	!	Recordings

A white bracket is drawn under the "Last recording", "Online", "Lane active", and "Cameras active" columns of the table, pointing to the text "Quick Status check" below the screenshot.

Quick Status check



Cloud Portal

<https://app.bodyguardcam.com>

Screenshot of the 'Station Users' page in the Bodyguard Cam Cloud Portal. The page shows a list of users with columns for Station Manager, Name, Email, Language, Timezone, Active status, and Last Seen. Each user entry includes an 'Edit' button.

Station Manager	Name	Email	Language	Timezone	Active	Last Seen	
	Antho	[redacted]ndcdjr.com	en	America/New_York		Aug. 30, 2023, 9:03 a.m.	Edit
	Besa	[redacted]utogroup.com	en	America/New_York		Aug. 30, 2023, 1:08 p.m.	Edit
	Besa	[redacted]utogroup.com	en	America/New_York		None	Edit
	Blanc	[redacted]hyundai.com	en	America/New_York		July 13, 2023, 12:02 p.m.	Edit
	Colin	[redacted]hyundai.com	en	America/New_York		None	Edit
	Dante	[redacted]bgroup.com	en	America/New_York		Aug. 22, 2023, 4:29 p.m.	Edit
	Devo	[redacted]ndcdjr.com	en	America/New_York		Aug. 29, 2023, 3:43 p.m.	Edit
	Edwa	[redacted]jr.com	en	America/New_York		Sept. 28, 2022, 2:44 p.m.	Edit



New Setup Process

- Min 48 hours in Advance
- Station Information & Server ID
- Assign Technician & WhatsApp Group for Communication
- Sample On-boarding Template



GOAL: With information setup ahead of time, ideally install can be completed entirely without our assistance.

Link for Installation Request: <https://zfrmz.com/EOKBVG0wZp6kpYdFLUjd>

BL INNOVARE
Equipment Installation Remote Support Request

Remote Support appointments are available Monday to Friday 5:30 am - 5:30 pm EST/EDT

Customer Site Business Name

Customer Website

Select the requested date and time for remote support appointment

Date-Time *

Customer's time zone

Onsite Installer's Name and Phone Number for WhatsApp group chat

Name
First Name Last Name

Phone

Product Type

How many FASTLIGN Lines

Provide FASTLIGN Server Number(s) *

BODYGUARD support@banalogic.com
888-855-6300

Welcoming you as a BODYGUARD customer! Not only does this product help provide you peace of mind against potentially fraudulent damage claims, but it also helps automate your vehicle intake process – no need for the walk around the vehicle taking pictures.

This email contains valuable information on the system and some frequently asked questions. As the manufacturer of the product, we stand behind it. At BanalLogic, customer service is an attitude, not a department. Any support related inquiries, for fastest response please email support@banalogic.com. I will be available along with the Customer Care team to address any questions or concerns you may have.

Happy to have you aboard!

Jennifer Dewar
Director of Operations
BanalLogic Corporation
Phone: 905.943.7898 ext.306
Email: jennifer.dewar@banalogic.com

[Access Portal](#)

How does BODYGUARD work?
Everything is automatic, vehicles drive through the towers and the system automatically records from 6 different cameras the vehicle's body condition. The LED lights are turned on when the path between the tower is crossed.

The image shows a slide with a dark grey background. In the center, the text "Q&A" is written in a white, serif font. The slide is framed by dark red triangles in the top-left and bottom-right corners, separated from the central grey area by thin white diagonal lines.

Q&A

BL INNOVARE

INSPIRATION AT WORK