



Solicitation Response(SR) Dept: 0310 ID: ESR0315210000006282 Ver.: 1 Function: New Phase: Final

Modified by batch , 03/16/2021

Header  6

General Information   Contact   Default Values   Discount   Document Information   Clarification Request

<b>Procurement Folder:</b> 838647	<b>SO Doc Code:</b> ARFQ
<b>Procurement Type:</b> Agency Purchase Order	<b>SO Dept:</b> 0310
<b>Vendor ID:</b> VC0000004568	<b>SO Doc ID:</b> DNR2100000054
<b>Legal Name:</b> SENSOURCE INC	<b>Published Date:</b> 3/5/21
<b>Alias/DBA:</b>	<b>Close Date:</b> 3/16/21
<b>Total Bid:</b> \$44,850.00	<b>Close Time:</b> 13:30
<b>Response Date:</b> 03/15/2021	<b>Status:</b> Closed
<b>Response Time:</b> 16:40	<b>Solicitation Description:</b> Addendum No.02 - Parks: Wireless People Counting System  
<b>Responded By User ID:</b> SenSource	<b>Total of Header Attachments:</b> 6
<b>First Name:</b> Melissa	<b>Total of All Attachments:</b> 6
<b>Last Name:</b> Chapman	
<b>Email:</b> mchapman@sensourceir	
<b>Phone:</b> 800-239-1226	

Line	Commodity	CL Description	Total Price
1	41111900	3.1.7 Sensor-3D Vision Counting Technology-Interior or equal	\$15,950.00
2	41111900	3.1.8 Sensor-3D Vision Counting Technology-Exterior or equal	\$1,360.00
3	41111900	3.1.9 Sensor with Wireless on LCD Display or equal	\$19,140.00
4	83121600	3.2 Data Access Subscription	\$8,400.00

From 1 to 4 Total: 4

First Previous Next Last

General Information Commodity Information Specifications Shipping and Handling Line Item Preference

CL Description: 3.1.7 Sensor-3D Vision Counting Technology-Interior or equal Alternate

Commodity: 41111900  
 Indicating and recording instruments

Commodity Specifications:  
 Line Type: Item  
 Total Price: \$15,950.00

Response Type: Bid

Comments: \$700 unit price includes sensor, surface mount, Power over ethernet injector and shipping. This is a 3D video sensor which

General Information Commodity Information Specifications Shipping and Handling Line Item Preference

CL Description: 3.1.8 Sensor-3D Vision Counting Technology-Exterior or equal Alternate

Commodity: 41111900  
 Indicating and recording instruments

Commodity Specifications:  
 Line Type: Item  
 Total Price: \$1,360.00

Response Type: Bid

Comments: Same technology as above, however it is in an outdoor enclosure. WV Parks to run network cable and mount sensor.

General Information Commodity Information Specifications Shipping and Handling Line Item Preference

CL Description: 3.1.9 Sensor with Wireless on LCD Display or equal Alternate

Commodity: 41111900  
 Indicating and recording instruments

Commodity Specifications:  
 Line Type: Item  
 Total Price: \$19,140.00

Response Type: Bid

Comments: Battery operated side mounted infra red beams which will count when beam is broken. Non directional. Counts are to be sent

General Information Commodity Information Specifications Shipping and Handling Line Item Preference

CL Description: 3.2 Data Access Subscription Alternate

Commodity: 83121600  
 Information centers

Commodity Specifications:  
 Line Type: Item  
 Total Price: \$8,400.00

Response Type: Bid

Comments: Software and one year tech support for all sensors.

# VIDX SERIES

SENSOURCE VIDX SERIES PEOPLE COUNTING TECHNOLOGY



**UNMATCHED  
ACCURACY**

**CONTINUALLY  
IMPROVING  
TECHNOLOGY**

**ADVANCED  
FEATURES**

# THE SOLUTION

## HOW IT WORKS

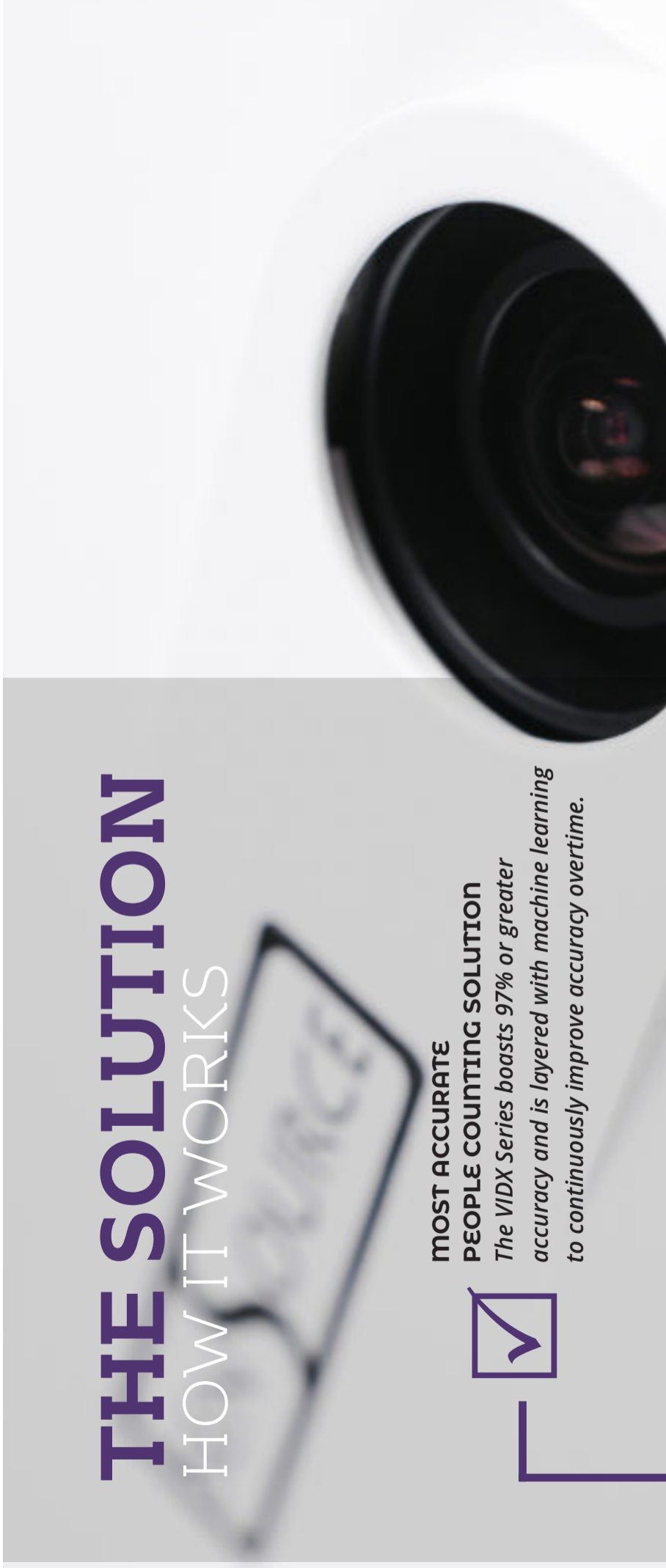
### MOST ACCURATE PEOPLE COUNTING SOLUTION

The VIDX Series boasts 97% or greater accuracy and is layered with machine learning to continuously improve accuracy overtime.



### HOW IT WORKS

- DETECT & COUNT**  
The VIDX Series people counting sensor uses 3D advanced stereo vision tracking technology. Machine learning refines the already accurate sensing technology with a deep learning network, making it the most accurate system available.
- TRANSMIT DATA**  
Using PoE, a single cable provides power and network connectivity. Data is processed on the sensor itself, no additional servers are needed, making real-time data available for immediate action and count lines and zones can be drawn on the sensor individually.
- REPORT**  
Vea Analytics completes the solution, providing a cloud-based platform for analyzing and reporting traffic data. Your annual subscription also includes technical support services.



### SENSOR FEATURES



Widest viewing angle on the market



Up to 8 zones per sensor



Up to 9 counting lines per sensor

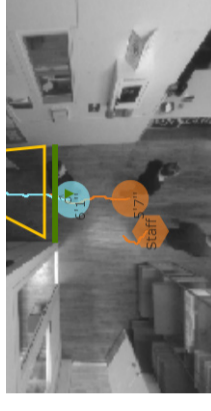


- Employee exclusion
- Group counting
- Queue detection
- Privacy filters
- Differentiate adults from children



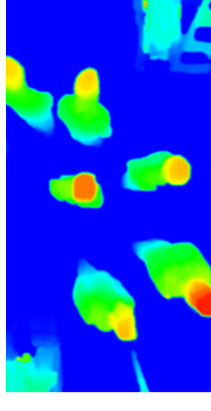
#### Robust Operation

Resistant to all kinds of external influences, such as shadows, light changes and heat emission. Up to 9 sensors can be stitched into a single view for large area monitoring.



#### Employee Exclusion

Take accuracy to the next level by removing employee traffic from your data set by equipping staff with specially designed tags.



#### Future Proof

25 year MTB. Installed sensors can be upgraded in the field with firmware upgrades and new features. Artificial intelligence lays the foundation for future concepts.

## THE EXPERTISE BEHIND ACCURATE DATA



Our team of experts will custom configure the sensor settings during installation to ensure optimal accuracy. Accuracy is validated by video to meet our standards. Your sensor's health is continually monitored by our team for instances such as offline status or out of scope accuracy.



### 97%+ ACCURACY GUARANTEED

- + Accuracy certified by SenSource technicians
- + Accuracy validated by video
- + Sensors custom configured for your facility
- + Ongoing sensor health & accuracy monitoring

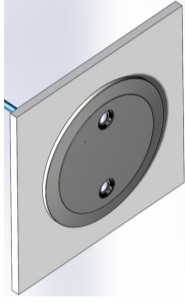
### INSTALLATION SERVICES

Full installation services available for single sites as well as full rollouts. Certified technicians will run cable, install the sensor, and test for functionality and accuracy. Documentation is available for self-installation.

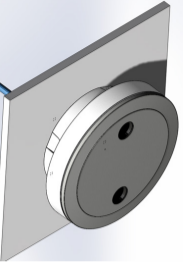
## MOUNTING ACCESSORIES

Each sensor comes with a standard mount kit that includes fasteners to mount the sensor to a drywall or acoustic/drop tile ceiling. It also includes a 1/4-20 back plate to accommodate accessory mounts or standard camera mounts.

For installations that cannot use our standard mounting kit, the below accessories are available. Request a pricing sheet.




**RECESSED MOUNT**  
Includes a white-finished mounting box, mounting ring, and screws. Used to mount the sensor flush with a suspended ceiling.




**SURFACE MOUNT**  
Includes white cover with three-side-breakouts for the Ethernet cable and screws. Used for concrete ceilings or when cabling can't be run above the ceiling.



**OUTDOOR MODELS**  
Available for most VIDX models. Includes pre-assembled VIDX sensor enclosed in an outdoor-rated casing and cabling.



**EXTENSION POLE**  
Available in 22-40" (silver or white) or 10-18" (silver). Includes extension pole with bracket and screws. Used on any ceiling or wall type to lower the sensor from the ceiling or extend the depth from a wall.



**PIVOT MOUNT**  
Available in black or white. Includes pivot mount and screws. Used on any ceiling type, allowing to tilt the sensor in any direction.



**ADAPTER PLATE**  
Includes mounting adapter plate and screws. Used for workboxes or drop pole mount.

**BLACK COVER**  
Black plastic cover to blend sensor to a dark ceiling.

# VEA ANALYTICS PLATFORM



## STANDARD FEATURES

- TRAFFIC ANALYSIS**  
Patterns & Peak Times
- PREDICTIVE TRAFFIC**  
Forecast Future Daily Traffic
- COMPARISONS**  
Historical & Between Facilities
- REST API**  
Integrate with existing systems

*Vea unlocks the power of your traffic data by using visuals of performance metrics to reveal insights for data-driven decisions.*

### ANALYZE & REPORT

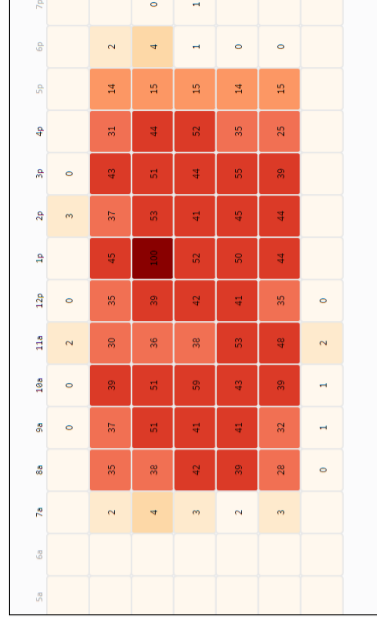
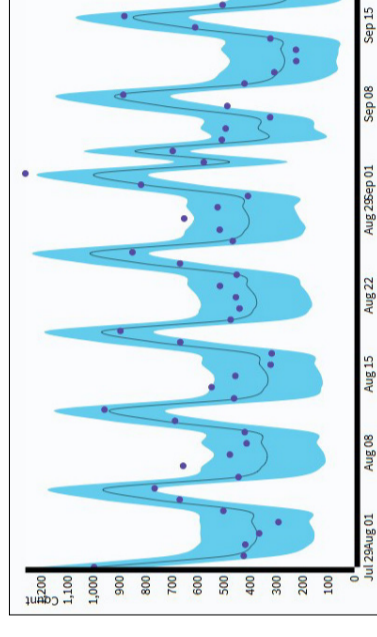
Dashboards and data grids can be shared with other Vea users, exported for further analysis, or automatically received in your inbox. Data is hosted on our secure servers and is accessible to verified users anywhere, anytime and on any device through Vea's web login.

### INTEGRATE

For those looking to analyze more than just traffic data, Vea also reports on occupancy metrics and retail interior metrics. See the chart to the right for included features. A RESTful API is available for all Vea application features to integrate traffic data with your existing business software.

## LEVELS TO MEET YOUR DATA ANALYSIS NEEDS

	TRAFFIC	TRAFFIC + OCCUPANCY	RETAIL ANALYTICS	INTERIOR ANALYTICS
DETAILED TRAFFIC	✓	✓	✓	
SENSOR HEALTH MONITORING	✓	✓	✓	✓
API ACCESS	✓	✓	✓	✓
OCCUPANCY		✓	✓	
POS INTEGRATION		✓	✓	
LABOR INTEGRATION		✓	✓	
QUEUE & ENGAGEMENT				✓
CUSTOMER JOURNEY ANALYSIS				✓



### PREDICTIVE ANALYTICS

**Improve operational efficiencies by knowing your facility's future traffic trends.**

Vea's robust algorithms forecast traffic with unmatched accuracy. Forecasts are based on your historical data and automatically adapts to seasonality and trends.

### VISUAL REPRESENTATIONS

**Quickly see variances in metrics, reveal patterns and detect correlations using Vea's map features.**

The day-hour heatmap reveals peak facility usage hours throughout the week. Additional visuals include geographic maps to compare multiple facilities; charts and graphs; cards and gauges.



# VIDX SERIES TECHNICAL SPECS

## PARAMETER

Working principle:	3D stereo vision distance measurement
Installation angle:	+/-15° in x-axis +/- 5° in y-axis
Operation temperature:	32° ... 113° F (0° ... 45 °C)
Storage temperature:	-4° ... 158 F° (-20° ... 70°C)
Air humidity:	20 ... 80%
Connection:	Rj-45 Ethernet
Power supply:	PoE Class 0 (IEEE 802.3af)
Power consumption:	max 6W
Required illumination:	min. 2 lux
Data storage:	over 120 days (depending on counting elements)
Multisensor:	up to 9 sensors
Size (LxWxH):	5.12" x 3.70" x 1.18" (13.0 x 9.4 x 3.0 cm)
Weight PC2:	0.77 lbs (350gr)
Mounting height:	up to 19' 8.22" (6m)

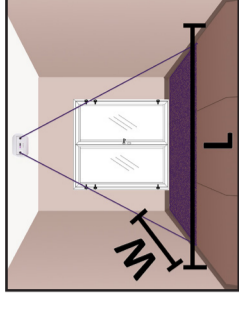
## ORDERING

Mounting Height Range	Part Number
7.22 - 18.04 ft	PC-VIDX-S
7.22 - 11.48 ft	PC-VIDX-SUL
7.22 - 19.69 ft	PC-VIDX-SL

\*Employee exclusion filter requires tighter mounting and detection area parameters. Request a data sheet.

Vea Software  
 - Traffic  
 - Traffic + Occupancy  
 - Retail Analytics  
 - Interior Analytics

Web-based, hosted SaaS for reporting and analysis.  
 Annual subscription includes technical support services



feet	PC-VIDX-S		PC-VIDX-SUL		PC-VIDX-SL	
	L	W	L	W	L	W
7.22	3.44	2.73	3.31	3.48	2.13	1.42
7.55	4.84	3.42	5.04	4.68	3.53	2.10
7.87	6.13	4.10	6.60	5.88	4.82	2.79
8.20	7.42	4.78	8.19	7.07	6.11	3.47
8.53	8.55	5.18	9.70	8.27	7.36	4.15
8.86	9.20	5.18	11.25	9.47	8.58	4.84
9.19	9.76	5.52	12.75	10.67	9.76	5.52
9.51	10.83	6.20	14.26	11.87	11.03	6.20
9.84	11.59	6.89	16.02	13.25	12.25	6.89
10.17	12.34	7.57	17.59	14.46	13.38	7.57
10.50	13.10	8.22	19.04	15.68	14.83	8.37
10.83	13.86	8.71	20.64	16.89	16.10	9.07
11.15	14.62	9.19	22.11	18.10	17.26	9.76
11.48	15.38	9.67	22.15	18.70	18.55	10.45
11.81	16.14	10.15			19.72	11.14
12.14	16.90	10.63			20.89	11.83
12.47	17.65	11.11			22.06	12.53
12.80	18.41	11.59			23.39	13.22
13.12	19.17	12.07			24.56	13.91
13.45	19.93	12.55			25.74	14.60
13.78	20.69	13.04			26.92	15.29
14.11	21.45	13.52			28.29	15.99
14.44	22.21	14.00			29.47	16.68
14.76	22.97	14.48			30.65	17.37
15.09	22.97	14.96			31.84	18.06
15.42	22.97	15.44			33.02	18.75
15.75	22.97	15.92			34.21	19.45
16.08	22.97	16.40			34.93	20.14
16.40	22.97	16.40			34.93	20.83
16.73	22.97	16.40			34.93	21.52
17.06	22.97	16.40			34.93	22.21
17.39	22.97	16.40			34.93	22.91
17.72	22.97	16.40			34.93	23.60
18.04	22.97	16.40			34.93	24.29
18.37	22.97	16.40			34.93	24.98
18.70	22.97	16.40			34.93	25.67
19.03	22.97	16.40			34.93	26.20
19.36	22.97	16.40			34.93	26.20
19.69	22.97	16.40			34.93	26.20

# VIDX OUTDOOR

SENSOURCE VIDX SERIES PEOPLE COUNTING TECHNOLOGY



**UNMATCHED  
ACCURACY**

**CONTINUALLY  
IMPROVING  
TECHNOLOGY**

**ADVANCED  
FEATURES**



# THE SOLUTION

## HOW IT WORKS

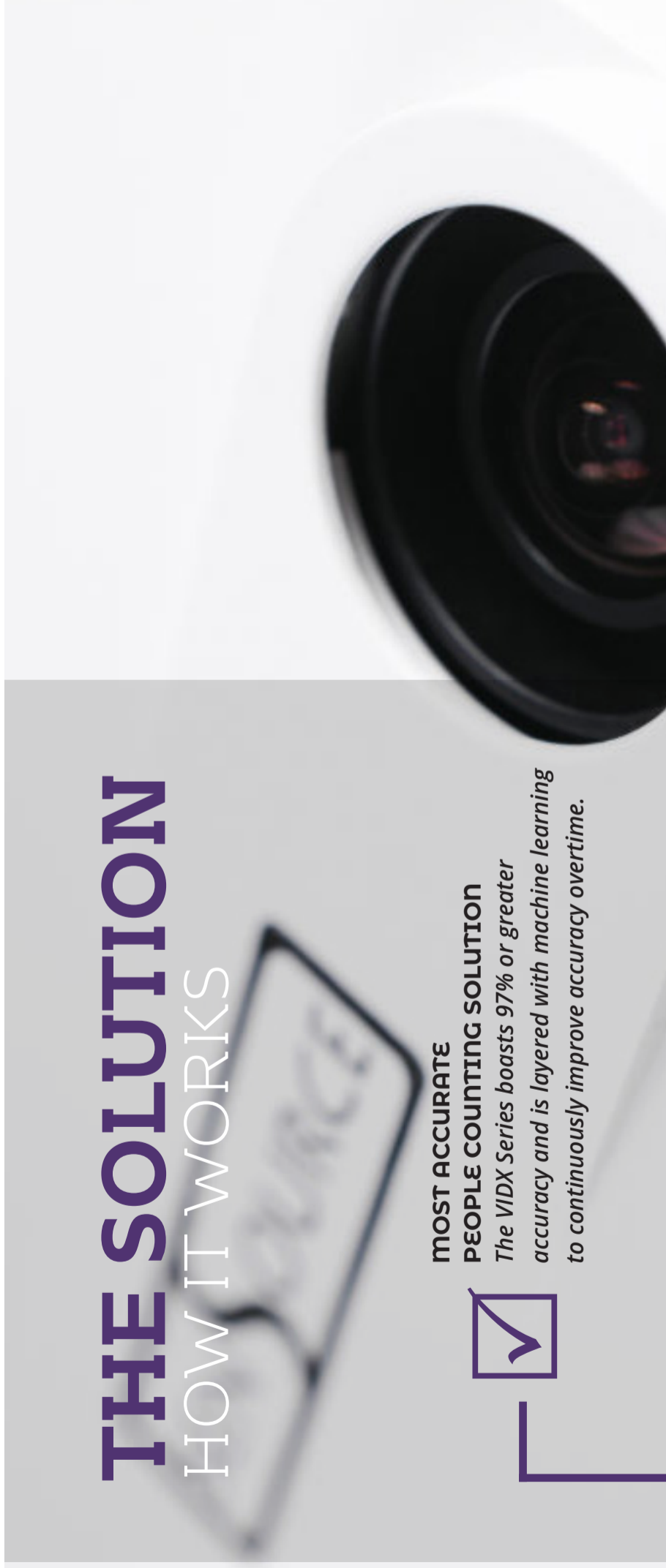
### MOST ACCURATE PEOPLE COUNTING SOLUTION

The VIDX Series boasts 97% or greater accuracy and is layered with machine learning to continuously improve accuracy overtime.



### HOW IT WORKS

- DETECT & COUNT**  
The VIDX Series people counting sensor uses 3D advanced stereo vision tracking technology. Machine learning refines the already accurate sensing technology with a deep learning network, making it the most accurate system available.
- TRANSMIT DATA**  
Using PoE, a single cable provides power and network connectivity. Data is processed on the sensor itself, no additional servers are needed, making real-time data available for immediate action and count lines and zones can be drawn on the sensor individually.
- REPORT**  
Vea Analytics completes the solution, providing a cloud-based platform for analyzing and reporting traffic data. Your annual subscription also includes technical support services.



### SENSOR FEATURES



Widest viewing angle on the market



Continuous tracking, even in shoulder-to-shoulder crowds



Up to 9 counting lines per sensor



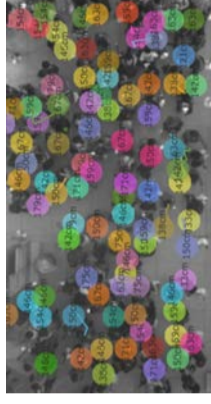
Up to 8 zones per sensor

Refer to pages 8-9 for sensor technical specs and mounting height chart.



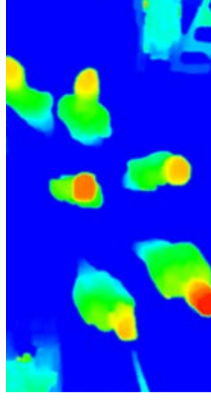
#### Robust Operation

Resistant to all kinds of external influences, such as shadows, light changes and heat emission. Includes an outdoor-rated, pre-mounted casing and cabling in compliance with IP 65.



#### Standard Advanced Features

- Differentiate adults from children
  - Group counting
  - Queue detection
  - Privacy filters
- Up to 9 sensors can be stitched into a single view for large area monitoring.



#### Future Proof

25 year MTB. Installed sensors can be upgraded in the field with firmware upgrades and new features. Artificial intelligence lays the foundation for future concepts.

## THE EXPERTISE BEHIND ACCURATE DATA



Our team of experts will custom configure the sensor settings during installation to ensure optimal accuracy. Accuracy is validated by video to meet our standards. Your sensor's health is continually monitored by our team for instances such as offline status or out of scope accuracy.

**97%+ ACCURACY GUARANTEED**

- + Accuracy certified by SenSource technicians
- + Accuracy validated by video
- + Sensors custom configured for your facility
- + Ongoing sensor health & accuracy monitoring



### INSTALLATION SERVICES

Full installation services available for single sites as well as full rollouts. Certified technicians will run cable, install the sensor, and test for functionality and accuracy. Documentation is available for self-installation.

### MOUNTING ACCESSORIES

Each sensor comes with a standard mount kit that includes anchors. It also includes a 1/4-20 back plate to accommodate accessory mounts or standard camera mounts.

For installations that cannot use our standard mounting kit, the below accessories are available. Request a pricing sheet.



**EXTENSION POLE**  
Available in 22-40" (silver or white) or 10-18" (silver). Includes extension pole with bracket and screws. Used on any ceiling or wall type to lower the sensor from the ceiling or extend the depth from a wall.



**PIVOT MOUNT**  
Available in black or white. Includes pivot mount and screws. Used on any ceiling type, allowing to tilt the sensor in any direction.

# VEA ANALYTICS PLATFORM



## STANDARD FEATURES

-  **TRAFFIC ANALYSIS**  
Patterns & Peak Times
-  **PREDICTIVE TRAFFIC**  
Forecast Future Daily Traffic
-  **COMPARISONS**  
Historical & Between Facilities
-  **REST API**  
Integrate with existing systems

*Vea unlocks the power of your traffic data by using visuals of performance metrics to reveal insights for data-driven decisions.*

### ANALYZE & REPORT

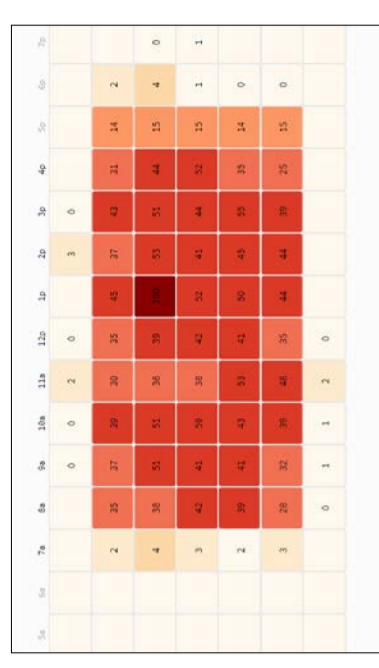
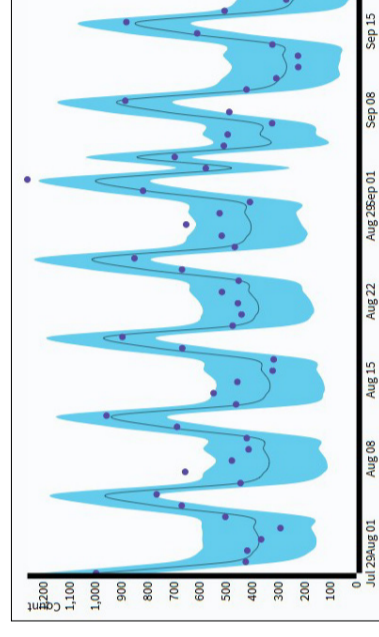
Dashboards and data grids can be shared with other Vea users, exported for further analysis, or automatically received in your inbox. Data is hosted on our secure servers and is accessible to verified users anywhere, anytime and on any device through Vea's web login.

### INTEGRATE

For those looking to analyze more than just traffic data, Vea also reports on occupancy metrics and retail interior metrics. See the chart to the right for included features. A RESTful API is available for all Vea application features to integrate traffic data with your existing business software.

## LEVELS TO MEET YOUR DATA ANALYSIS NEEDS

	TRAFFIC	TRAFFIC + OCCUPANCY	RETAIL ANALYTICS	INTERIOR ANALYTICS
DETAILED TRAFFIC	✓	✓	✓	
SENSOR HEALTH MONITORING	✓	✓	✓	✓
API ACCESS	✓	✓	✓	✓
OCCUPANCY		✓	✓	
POS INTEGRATION		✓	✓	
LABOR INTEGRATION		✓	✓	
QUEUE & ENGAGEMENT				✓
CUSTOMER JOURNEY ANALYSIS				✓



### PREDICTIVE ANALYTICS

Improve operational efficiencies by knowing your facility's future traffic trends. Vea's robust algorithms forecast traffic with unmatched accuracy. Forecasts are based on your historical data and automatically adapts to seasonality and trends.

### VISUAL REPRESENTATIONS

Quickly see variances in metrics, reveal patterns and detect correlations using Vea's map features. The day-hour heatmap reveals peak facility usage hours throughout the week. Additional visuals include geographic maps to compare multiple facilities; charts and graphs; cards and gauges.



# VIDX SERIES TECHNICAL SPECS

## PARAMETER

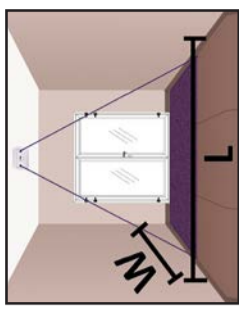
Working principle:	3D stereo vision distance measurement
Installation angle:	+/-15° in x-axis +/- 5° in y-axis
Operation temperature:	-13° ... 104° F (-25° ... 40° C)
Storage temperature:	-4° ... 158° F (-20° ... 70° C)
Air humidity:	20 ... 80%
Connection:	RJ-45 Ethernet
Power supply:	PoE Class 0 (IEEE 802.3af)
Power consumption:	max 6W
Required illumination:	min. 9 lux
Data storage:	up to 120 days
Max. people tracking:	up to 200 people simultaneously
Multisensor:	up to 9 sensors
Size (LxWxH):	6.06" x 4.05" x 3.27" (154mm x 103mm x 83mm)
Weight:	2.425 lb (1100g)
Mounting height:	up to 19' 8.22" (6m)

## ORDERING

Mounting Height Range	Part Number
7.22 - 19.68 ft	PC-VIDX-R-O
7.22 - 11.48 ft	PC-VIDX-RUL-O
7.22 - 19.69 ft	PC-VIDX-RL-O

Veia Software - Traffic - Traffic + Occupancy - Retail Analytics - Interior Analytics	Web-based, hosted SaaS for reporting and analysis. Annual subscription includes technical support services
---	---



HEIGHT feet	PC-VIDX-R-O		PC-VIDX-RUL-O		PC-VIDX-RL-O	
	L	W	L	W	L	W
7.22	3.44	2.73	3.31	3.48	2.13	1.42
7.55	4.84	3.42	5.04	4.68	3.53	2.10
7.87	6.13	4.10	6.60	5.88	4.82	2.79
8.20	7.42	4.78	8.19	7.07	6.11	3.47
8.53	8.55	5.18	9.70	8.27	7.36	4.15
8.86	9.20	5.18	11.25	9.47	8.58	4.84
9.19	9.76	5.52	12.75	10.67	9.76	5.52
9.51	10.83	6.20	14.26	11.87	11.03	6.20
9.84	11.59	6.89	16.02	13.25	12.25	6.89
10.17	12.34	7.57	17.59	14.46	13.38	7.57
10.50	13.10	8.22	19.04	15.68	14.83	8.37
10.83	13.86	8.71	20.64	16.89	16.10	9.07
11.15	14.62	9.19	22.11	18.10	17.26	9.76
11.48	15.38	9.67	22.15	18.70	18.55	10.45
11.81	16.14	10.15			19.72	11.14
12.14	16.90	10.63			20.89	11.83
12.47	17.65	11.11			22.06	12.53
12.80	18.41	11.59			23.39	13.22
13.12	19.17	12.07			24.56	13.91
13.45	19.93	12.55			25.74	14.60
13.78	20.69	13.04			26.92	15.29
14.11	21.45	13.52			28.29	15.99
14.44	22.21	14.00			29.47	16.68
14.76	22.97	14.48			30.65	17.37
15.09	22.97	14.96			31.84	18.06
15.42	22.97	15.44			33.02	18.75
15.75	22.97	15.92			34.21	19.45
16.08	22.97	16.40			34.93	20.14
16.40	22.97	16.40			34.93	20.83
16.73	22.97	16.40			34.93	21.52
17.06	22.97	16.40			34.93	22.21
17.39	22.97	16.40			34.93	22.91
17.72	22.97	16.40			34.93	23.60
18.04	22.97	16.40			34.93	24.29
18.37	22.97	16.40			34.93	24.98
18.70	22.97	16.40			34.93	25.67
19.03	22.97	16.40			34.93	26.20
19.36	22.97	16.40			34.93	26.20
19.69	22.97	16.40			34.93	26.20

# 1D

People Counters

TECHNICAL SPECIFICATIONS

SENSOURCE



## TB12 Wireless Battery-Powered People Counter

800.239.1226 | [WWW.SENSOURCEINC.COM](http://WWW.SENSOURCEINC.COM) | [INFO@SENSOURCEINC.COM](mailto:INFO@SENSOURCEINC.COM)

# 1-DIMENSIONAL PEOPLE COUNTERS

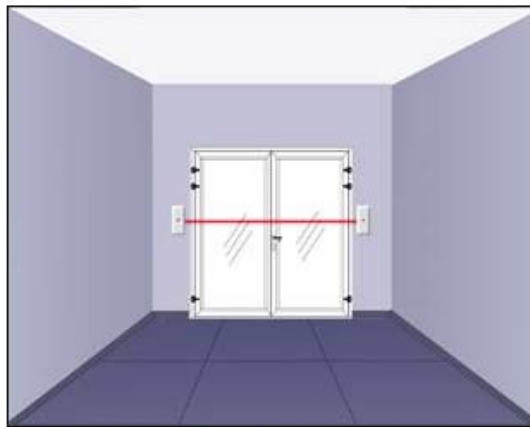
## TB12 Wireless Battery-Powered People Counter

The SenSource TB12 is a stand-alone, non-directional battery-operated people counter. It has a 6-digit LCD counter and internal data logger. This system consists of a photoelectric infrared beam transmitter and receiver which can operate up to 25 feet apart in front or side-firing modes. The counter will increment as the invisible IR beam is broken regardless of the direction of traffic. Child-resistant universal mounting bracket enables operation in front or side firing modes. Easy data collection is available by using either the LCD display or built-in data logger. A USB Software Utility is included to export data in a Microsoft Excel document.

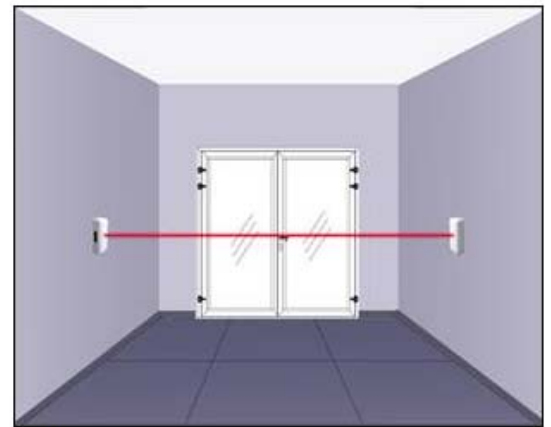
The TB12 Hosted Wi-Fi sensor option sends your foot traffic counts to you quickly, easily and without any additional hardware. There is no software to install and no server requirements. The PC-TB12N-WR features a built-in Wi-Fi transmitter that

communicates to your existing Wi-Fi network. After installation, all of your traffic reports are available using Vea Web web-based platform.

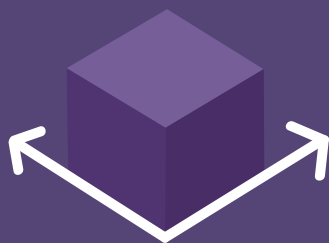
The TB12 series Battery-Powered people counters are one of the most basic traffic counting technologies. These break-beam style sensors are typically used in applications where a general idea of traffic volume and patterns are acceptable.



Side Firing (Door/Frame Mount)



Front Firing (Opposing Wall Mount)

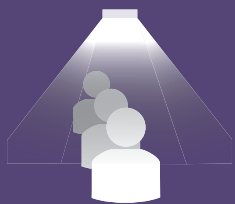


## 1D SENSING TECHNOLOGY



## FEATURES

- Battery-powered sensor installs in minutes
- 6-digit LCD display indicates counter value and setup parameters
- Built-in data logger stores up to 3,000 records or approx 33 days at 15 minute increments
- USB port for configuration and data extraction
- Adjustable High/Low sensing range to extend battery life of sensor
- Front-Firing (Opposing Wall mount) or Side-Firing (Door-Frame Mount) in one unit



IDEAL FOR  
SINGLE FILE TRAFFIC



EASY TO  
INSTALL



COST  
EFFICIENT

# 1-DIMENSIONAL PEOPLE COUNTERS



## TB12 Wireless Battery-Powered People Counter

### TECHNICAL INFORMATION

PARAMETER	MIN	TYP	MAX
IR Sensor Range	1ft	-	25 ft
Battery Life	-	6 months*	1 year*
Battery Type	Lithium 3.6V, Size AA		
Enclosure	2.0" W x 4.3" L x 1.2" H ABS Plastic		

\*Wi-Fi network settings affect battery life

REQUIREMENTS (For TB12 with Wi-Fi option)	
Wireless network:	802.11b or 802.11g
Wireless access point:	No further than 100 ft from sensors
Wireless authentication type:	WEP-128, WPA-PSK, WPA2-PSK or unsecured
Customer IT personnel or third party IT personnel is needed to make changes to customer's router, firewall or switches to allow bi-directional communication during initial system setup.	

### ORDERING INFORMATION

ORDERING	
Wi-Fi - TB12N-WR	Hosted PC-TB12N-WR, Gray Enclosure
	Hosted PC-TB12N-WR, Black Enclosure
Data Logging - TB12-R	PC-TB12-R, Gray Enclosure
	PC-TB12-RB, Black Enclosure
Vea Web Platform	

#### SenSource Inc.

3890 Oakwood Ave.

Youngstown, OH 44515

800.239.1226 | [info@sensourceinc.com](mailto:info@sensourceinc.com)

[www.SenSourceInc.com](http://www.SenSourceInc.com)



# 1D

## People Counters

### TB12 Series



## Pricing

### Onboard Data Logging Model:

PC-TB12-R

\$425.00

Gray or black enclosure option

### Wi-Fi Model:

PC-TB12N-WR

\$695.00

Gray or black enclosure option

SenSource Vea Software & Data Hosting Services

\$180.00

Billed annually

1 year hardware warranty

1 year support



# PC-TB12N-WR People Counter

## Pre-Installation Questionnaire

Company Name (Customer): \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City, State, Zip code: \_\_\_\_\_

Attention to: \_\_\_\_\_

Phone number: \_\_\_\_\_

Paying by Credit card? Y/N                      I'd like to set up Net30 Y/N

Please provide the email address of the person(s) who would be receiving the daily reports:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

### TB12N-WR Pre-Installation Check List

Please complete/refer to the following check list when determining if your wireless network setup is compatible with the SenSource TB12N-WR People Counter.

Please provide point of contact for questions regarding individual site network settings.

**Contact Name:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

**Save and return the completed/signed checklist to SenSource Inc. [Sales@sensourceinc.com](mailto:Sales@sensourceinc.com) prior to installation**

I understand that SenSource will charge \$120/hr. (billed in 15 minute increments) to the customer if SenSource technical support is used to correct and/or troubleshoot issues that are not directly related to SenSource hardware or software installation and functionality (*examples include but are not limited to: improper network configuration as specified in this document, poor Wi-Fi environment and network security issues, etc.*). My signature below certifies acceptance of these terms and acknowledgement of the accuracy of this document.

**Authorized Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Print Name:** \_\_\_\_\_



### Network Settings:

Does the wireless network that the TB12N-WR (SenSource Wi-Fi People Counter) will be using support

**802.11b** or  **802.11g**

Is the location where the sensor will be installed 100 Ft (clear path) or less from the Wireless Access point?

If the clear path distance to the Wireless Access point is greater than **100 Ft**, what is the distance? \_\_\_\_\_

**Note:** This measurement must not include walls, as Wi-Fi will not pass through solid objects, it must go around corners and through unobstructed open spaces.

**SSID of the wireless network:** \_\_\_\_\_

What type of authentication type does the wireless network use?

**WEP-128**       **WPA-PSK**       **WPA2-PSK**       **NONE/Unsecured**

**Note:** SenSource hardware does not support: *WPA-Enterprise, WPA2-Enterprise*

**Wireless network Pass Phrase:** \_\_\_\_\_

Will the TB12N-WR sensor be assigned a Static Address or will DHCP be used?

**Static Address**

If the TB12N-WR will be assigned a Static Address be sure to allow this address through the firewall (if one is present), and forward port 6767 to the wireless router.

**IP Address** to be used the TB12N-WR sensor(s): \_\_\_\_\_

**Subnet Mask:** \_\_\_\_\_ **Gateway:** \_\_\_\_\_

**DHCP**

If DHCP will be used make certain that the DHCP server has not exhausted the number of assignable IP addresses.

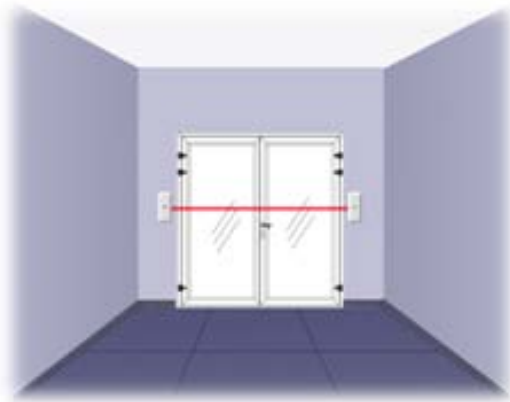
#### Physical Layout of the Installation Site:

Does the entrance at the installation site have doors that swing:

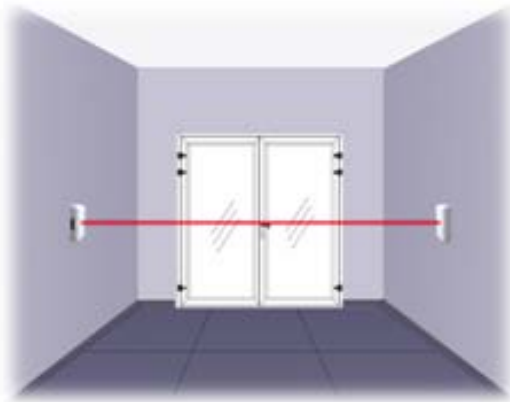
 IN OUT

What is the width of the entrance? \_\_\_\_\_

How will the sensors be mounted to the walls at the installation location:

 Side Facing (on door jamb) Front Facing (on opposing walls)

Side-Firing (Door/Frame Mount)



Front-Firing (Opposing Wall Mount)

- Sensor is able to communicate to data-receiving software (server).**

*\* By default sensors transmit count log activity to a central server via UDP port 6767. The configuration software has a test mechanism for this by using "Contact Destination Host." SenSource can also provide software for use on computers on the same network as the sensor to send a simulated sensor packet for connectivity tests. Unless traffic is specifically excluded via ACLs (access control lists) it would typically traverse the network and communicate as expected. If the sensor cannot communicate this is likely a configuration-specific issue requiring troubleshooting from both SenSource and the customer.*



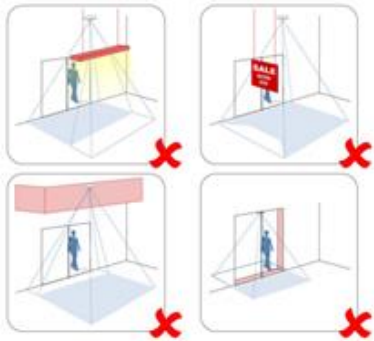
SenSource Scope of Work – VidX Video People Counter – SELF INSTALL

# SenSource VidX People Counter Self Install

# 2021

**Technical Support:** 800-239-1226 Ext 304

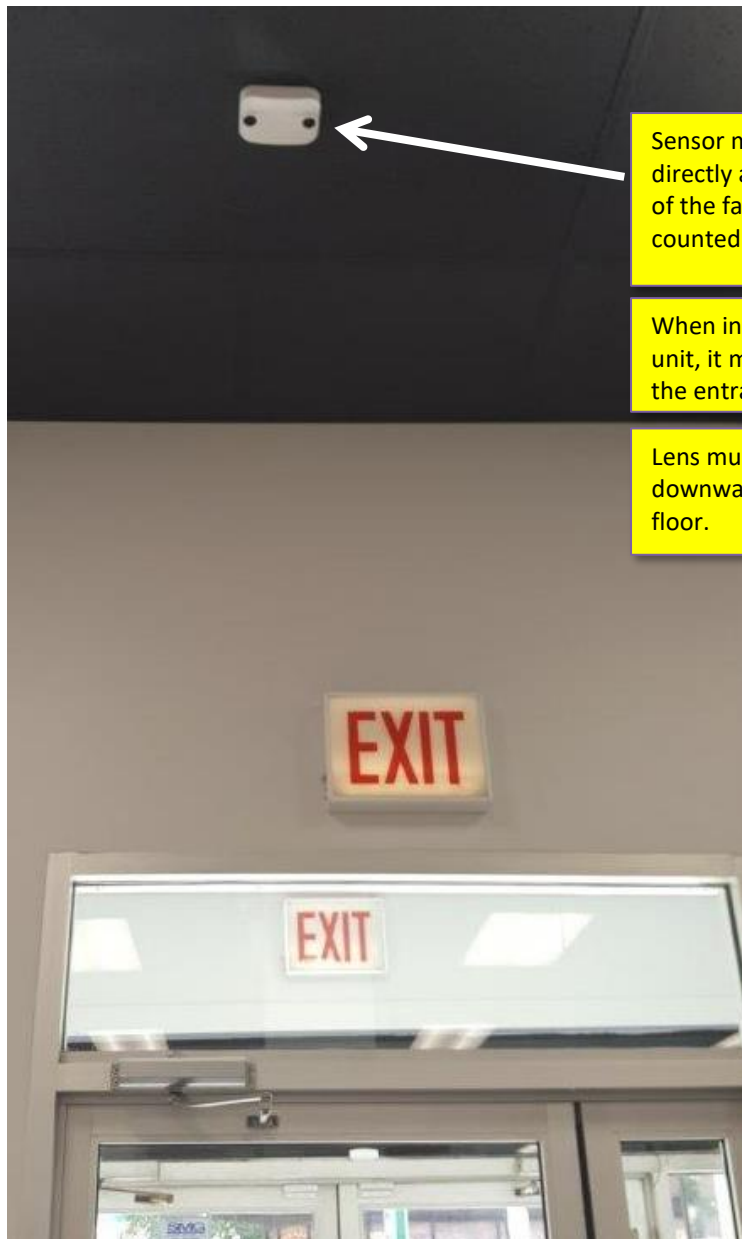
**Project Management:** Matt – 330-617-5366 (Direct/Text)



## Important

Do not connect sensors to switch ports without verifying correct port info/details.

Failure to follow this step may result in hardware failure at your expense.



Sensor must be installed directly above the doorway of the facility (area to be counted) on the ceiling.

When installing the VidX unit, it must run parallel to the entrance

Lens must be pointing downwards towards the floor.



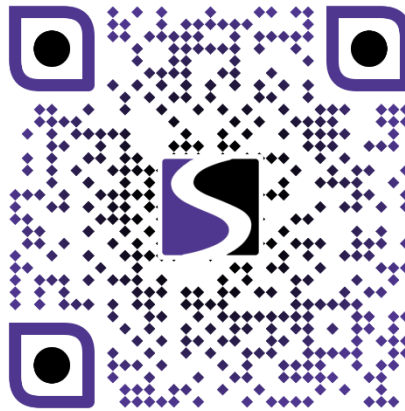
SenSource Scope of Work – VidX Video People Counter – SELF INSTALL

## Table of Contents

Escalation Contacts.....	3
Preparation.....	3
Port Requirements.....	3
Hardware Components .....	3
Contents Verification.....	3
Required Tools & Other Items.....	4
Step 1: Pre-Communication (Short Cable) Test .....	4
Step 2: Installing the Sensor.....	5
Surface Mounting Instructions.....	5
Extension Pole Mount (if ordered).....	6

### Installation Video

(Scan the QR Code with your phone camera)





**ESCALATION CONTACTS**

**Before Install:** SenSource Project Management -> 330.617.5366 (Matt – Call/Text)

**After Install:** SenSource Technical Support -> 800.239.1226 Ext 304

**PREPARATION**

**PORT REQUIREMENTS**





These devices do not require dedicated inbound ports all requests originate from the sensors outbound to the internet.

The Sensors make 4 connections outbound and we monitor and work with those outbound connections.

1. Time Sync Outbound on port 123 to pool.ntp.org (typical NTP protocol response, Can be changed to any NTP compatible time server)
2. Device Management Outbound on port 443 to vidx.sensourceinc.com (typical http/s packet traffic as we send instructions back and forth between sensor and server.)
3. Data Delivery Outbound on port 443 to data.sensourceinc.com (typical http/s packet response of 200 will be sent back.)
4. Validation data Outbound on port 22 to validation.sensourceinc.com (Standard SFTP data transfer Process.)

**HARDWARE COMPONENTS**

Refer to the equipment checklist and verify that the hardware shipped matches. The hardware box **may** contain one or more of the following:

			
<b>VidX Video Sensor</b>	<b>Mounting Hardware</b> Cover plate and screws	<b>Hardware Patch Cables</b> (x2)	<b>Power Supply:</b> PoE Injector

**CONTENTS VERIFICATION**

Upon delivery of the SenSource hardware, verify that the shipment contains the following (entrance-based) items:

Single Entrance Store	Dual Entrance Store
1 Sensor	2 Sensors (2 masters)
1 POE Injector (if no POE switch)	2 POE Injector (if no POE switch) or PoE Switch
2 Patch Cables	4 Patch Cables
1 Mounting Hardware bag	2 Mounting Hardware bags

**Recessed mount (OPTIONAL)** must be mounted in the ceiling, parallel to the doorway, with the two lenses pointing downwards towards the floor.

**Pole mount (OPTIONAL)** must be installed directly above the doorway of the facility. When mounted the sensor must be pointing downwards towards the floor.



SenSource Scope of Work – VidX Video People Counter – SELF INSTALL

## REQUIRED TOOLS & OTHER ITEMS

### Required items:

1. All equipment needed to perform the cable run (if needed)
2. Battery powered drill with 3/4 inch drill bit
3. Cable Tester
4. Cable Toner
5. Termination ends and equipment
6. Mounting hardware (screws, anchors, etc) for wood, cement block and sheet rock walls (included).

## STEP 1: PRE-COMMUNICATION (SHORT CABLE) TEST

Short cable test. Use the connection scenario below if utilizing a POE injector. Remove the injector from the process if switch is POE.



This test should allow you to **verify**

- Power to the sensor (LED lights on/blinking)
- Network connectivity
- Access to sensor for further configurations

**Call/Text Project Management once you are ready for us to check the device.**





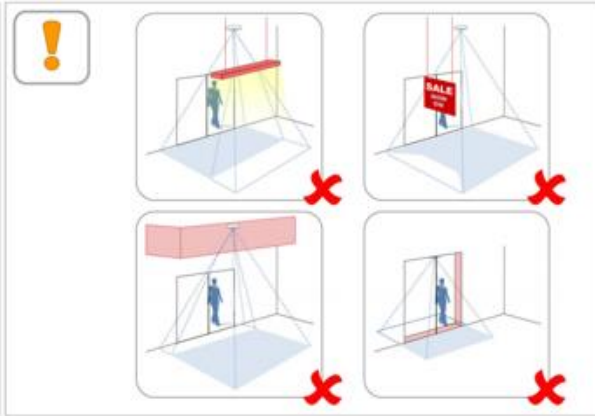
**STEP 2: INSTALLING THE SENSOR**

In most instances the sensor should be fixed 3 – 3 ½ feet from the door (inside the facility) avoiding obstructions.

Recommended position (mounting)



Avoid ceiling/wall obstructions



**SURFACE MOUNTING INSTRUCTIONS**

**1. Remove the cover:**

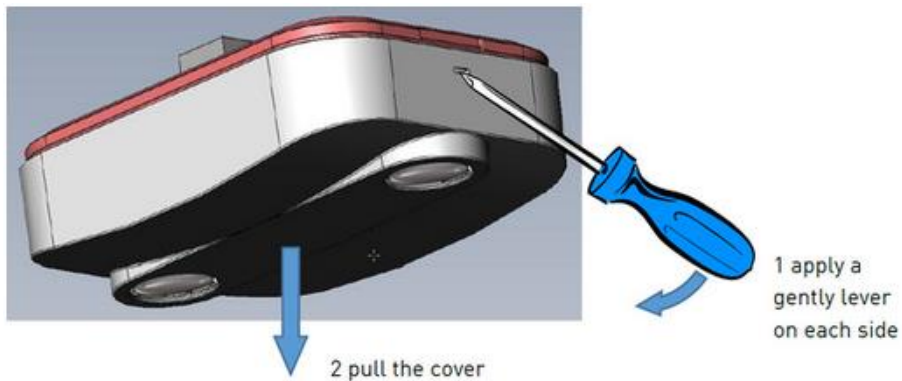


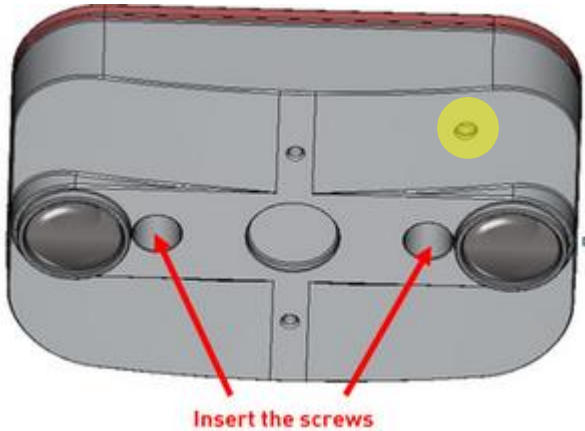
Figure 2: Remove the cover

**2. Pull the Ethernet cable through the hole in the ceiling and plug-in the sensor.**



SenSource Scope of Work – VidX Video People Counter – SELF INSTALL

3. Attach the sensor to the ceiling by using the proper hardware based on the ceiling type.
4. **Remove the dust-caps from the sensor lenses.**



**5. Replace the cover**

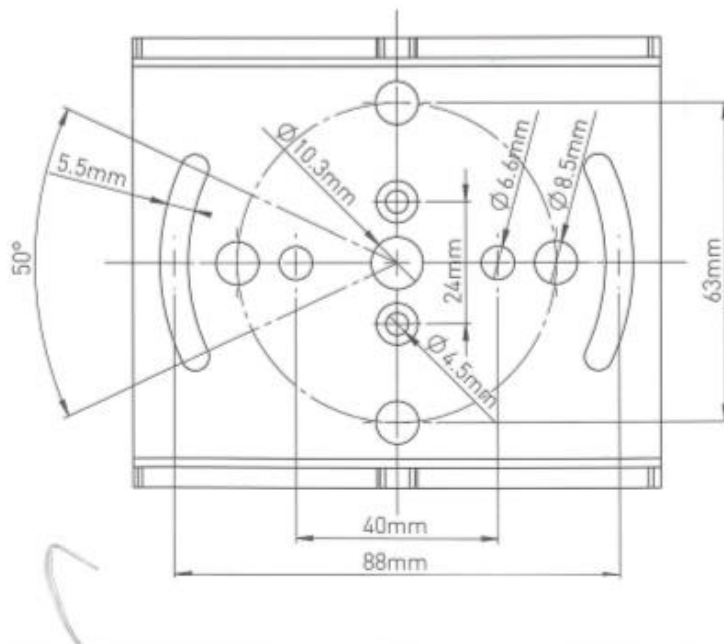
- a. Be sure to align the pin hole on the cover with the LED (highlighted in yellow above).
- b. The LED indicates the following states:
  - i. **Green**: Device is powered by PoE
  - ii. **Orange/Green** blinking: Device is up and running

**\*\*Note: Be sure to remove the black lens covers from both camera lenses\*\***

**EXTENSION POLE MOUNT (IF ORDERED)**

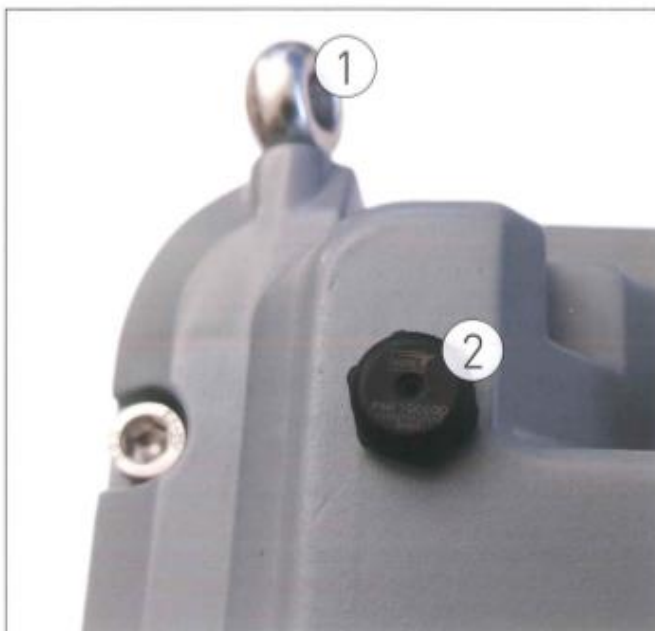


## Surface mounting plate



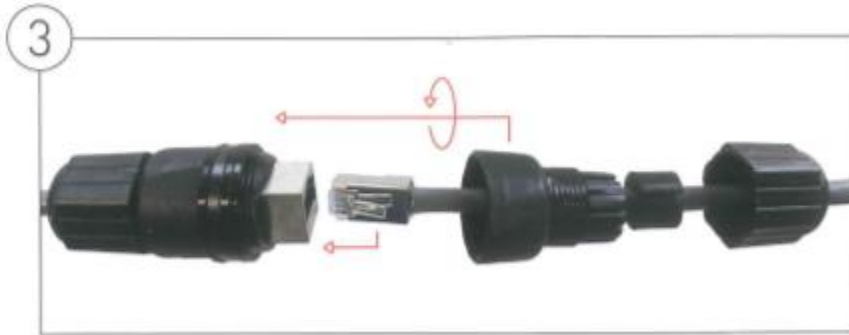
### Important notice:

The PC2R-0 is designed for exterior use. The fastening fixture and the mounting surface must be able to carry the four-fold weight of the sensor (incl. mounting plate and optional pivot mount), i.e. 65N, to securely prevent it from falling.



### Important notice:

1. Xovis recommends to use the accompanied eye bolt with a wire cable for a second safety backup.
2. The outdoor sensors come with a Gore® PolyVent XS membrane element. Therefore, the outdoor sensors must be mounted with free air circulation.



**Important notice:**

Ensure tight and correct screwing for a waterproof and stable connection as well as cable relief.