

3D

People Counters

TECHNICAL SPECIFICATIONS

SENSOURCE



ClearCount 3DX

3-DIMENSIONAL PEOPLE COUNTERS

ClearCount 3DX

The ClearCount 3DX uses 3D advanced stereo vision tracking technology to provide accurate people counting data under a broad set of environmental conditions and offers the widest viewing angle on the market.

ROBUST OPERATION

The 3D stereo vision technology is highly robust against all kinds of external influences such as shadows, light changes or heat emissions.

REAL-TIME ANALYSIS

The whole 3D image processing is performed on the sensor itself, no additional servers are needed to. In addition, the 3DX features an ultra-wide viewing angle to cover wide passages and large areas with a single sensor.

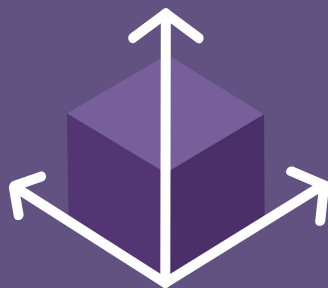
FUTURE PROOF

The 3DX is a future-proof and safe investment: Already installed sensors can be upgraded in the field with updated firmware upgrades to apply new features.



FEATURES

- 3D stereo vision technology with the widest viewing angle in the market
- Unique sensor model portfolio to support any area/ height situation
- Plug-and-play configuration
- Plug-in architecture
- Fast integration by system integrators
- Robust operation with counting accuracy 95% or greater guaranteed
- Local data storage for offline operation
- Multisensor with up to 6 sensors
- Queue detection
- Differentiates adults from children
- Avoids carts and bags
- Employee exclusion filters



3D SENSING TECHNOLOGY

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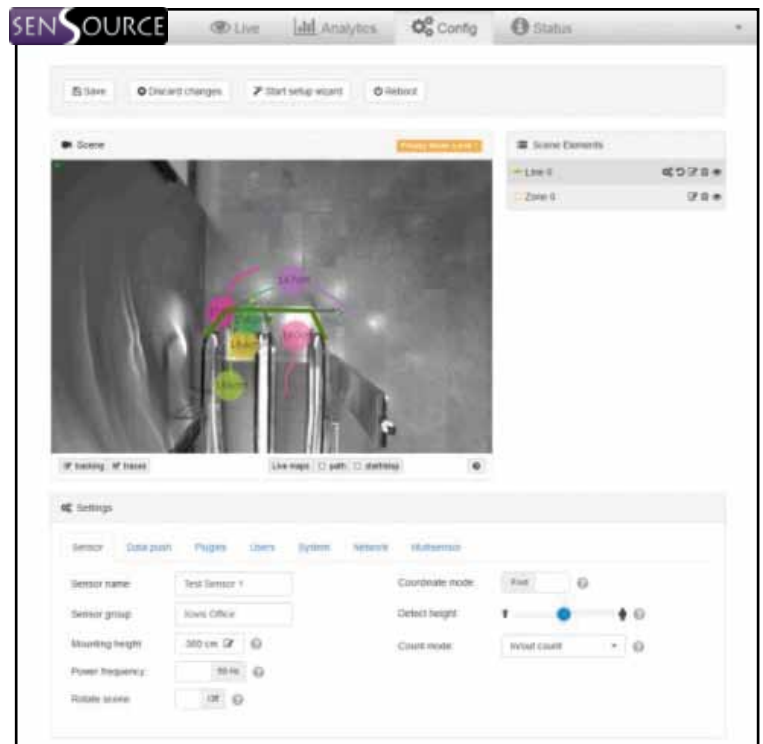
TRACKING

Besides the standard people counting and zone occupancy applications, the robust and unique tracking technology provided by the 3DX sensor delineates the basement for a broad range of additional applications. Every person that enters the visible area of the sensor is given a unique ID and is tracked continuously.



COUNTING LINES

Counting lines are multipoint lines which can be adapted perfectly to any situation and count people in both directions when passing the line. Each sensor allows to draw up to 8 independent counting lines and is able to monitor simultaneously forward and backward crossings.



ZONES

The basic functionality of the 3DX includes zone occupancy as well. It shows the current number of persons present in a particular zone. In addition, zones can be defined as activation zones for a dedicated counting line to perform a respective logical function. On a single sensor up to 8 zones can be configured and monitored simultaneously.



ACCURACY IN
HIGH TRAFFIC



ACCURATE IN
ANY ENVIRONMENT



MANAGE QUEUE
LINES AND DWELL TIMES

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PRIVACY PROTECTION

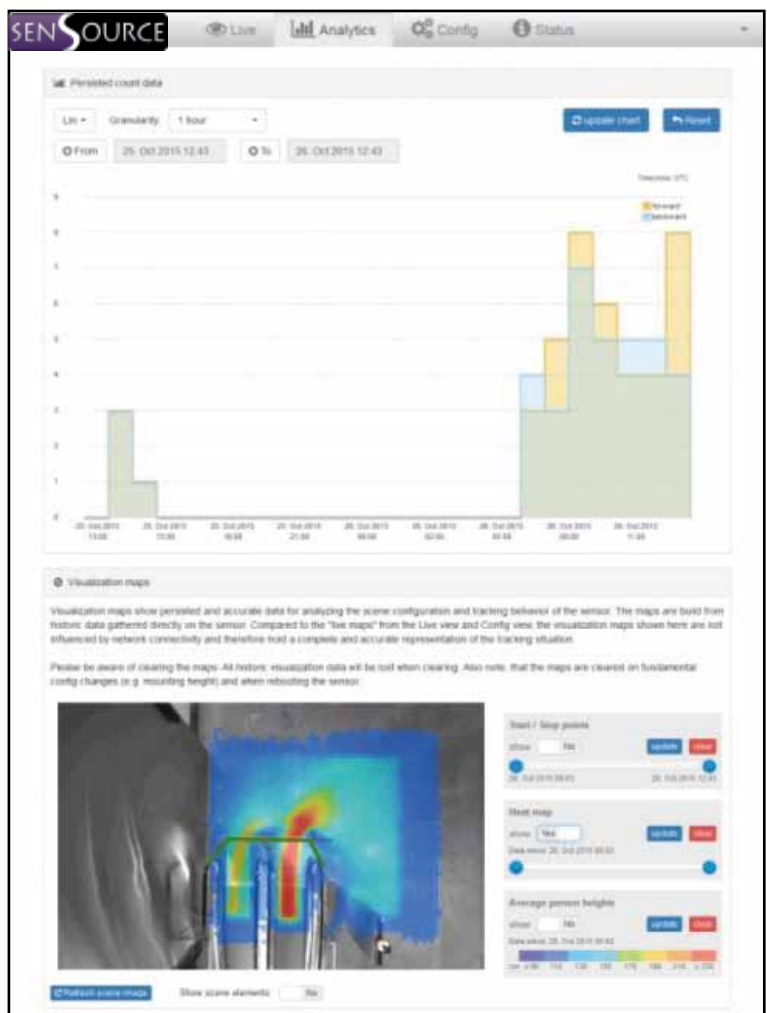
The 3DX contains a mechanism to define up to four different privacy protection levels to be able to fulfill every possible data privacy requirement. No video stream is leaving the sensor; only metadata is sent out.



VISUALIZATION MAPS

The analytics tab of the built-in Web-GUI contains four visualizations:

- Persisted count data chart: allows to visualize the data inside the built-in database
- Start/stop point map: shows where a person has been generated and deleted
- Heat and height map
- Height map showing the average person height in the scene



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A UNIQUE PORTFOLIO FOR MANY APPLICATIONS

With three sensor models the 3DX covers installation heights from 2.2m to 6m (7.2' to 19.69'), allowing to monitor up to 914m² (3,001 sq ft) of effective tracking area with a single sensor. The coverage capabilities of the full portfolio are described in the Coverage Chart.

MULTISENSOR

Within a few minutes, a Multisensor with up to 6 sensors can be fully configured thanks to the automated stitching process and the dedicated Multisensor wizard. All configuration and processing is performed on the sensors itself, there is no need for any additional server hard-ware or software. The Multisensor is tracking people through all involved sensors, handing over the person ID's from one sensor to the other. Multiple zones and counting lines can be monitored simultaneously, generating event based information on a person ID level. In addition, the transmission of the coordinate stream of every single person opens the door for new powerful analyses and visualizations.

WIDE RANGE OF ACCESSORIES

The robust body of a 3DX sensor allows to install it directly on the ceiling. In addition we offer a wide range of accessories allowing to fulfill every possible installation requirement.



3-DIMENSIONAL PEOPLE COUNTERS



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TECHNICAL INFORMATION

PARAMETER	
Working principle:	3D stereo vision distance measurement
Installation angle:	+/-15° in x-axis +/- 5° in y-axis
Operation temperature:	0°... 50 °C
Storage temperature:	-20°... 70°
Air humidity:	20 ... 80%
Connection:	RJ-45 Ethernet
Power supply:	PoE Class 0 (IEEE 802.3af)
Power consumption:	< 5W
Required illumination:	min. 2 lux
Data storage:	up to 120 days
Max. people tracking:	up to 200 people simultaneously
Multisensor:	up to 6 sensors
Size (LxWxH):	13.0 x 9.4 x 3.0 cm
Weight PC2:	350gr
Mounting height:	up to 6m

ORDERING INFORMATION

ORDERING	
ClearCount 3DX H = 7.22 -18.04 ft	PC-VID3X
ClearCount 3DX H = 7.22-11.48 ft	PC-VID3X-UL
ClearCount 3DX H = 7.22-19.69 ft	PC-VID3X-L
Vea Software	Web-based, hosted SaaS for reporting and analysis

SenSource Inc.

3890 Oakwood Ave.

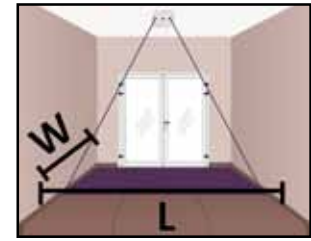
Youngstown, OH 44515

800.239.1226 | info@sensourceinc.com

www.SenSourceInc.com

ClearCount 3DX

SENSOR COVERAGE CHART



L - length of entry / detection area W - width/depth of detection area A - square footage of detection area

Height	PC-VIDX			PC-VIDX-UL			PC-VIDX-L		
	L	W	A	L	W	A	L	W	A
7.22	3.44	2.73	9.40	3.31	3.48	11.50	2.13	1.42	3.02
7.55	4.84	3.42	16.53	5.04	4.68	23.58	3.53	2.10	7.42
7.87	6.13	4.10	25.13	6.60	5.88	38.78	4.82	2.79	13.43
8.20	7.42	4.78	35.50	8.19	7.07	57.94	6.11	3.47	21.20
8.53	8.55	5.18	44.27	9.70	8.27	80.26	7.36	4.15	30.55
8.86	9.20	5.18	47.64	11.25	9.47	106.56	8.58	4.84	41.49
9.19	9.76	5.52	53.84	12.75	10.67	135.97	9.76	5.52	53.84
9.51	10.83	6.20	67.15	14.26	11.87	169.18	11.03	6.20	68.42
9.84	11.59	6.89	79.77	16.02	13.25	212.26	12.25	6.89	84.32
10.17	12.34	7.57	93.42	17.59	14.46	254.41	13.38	7.57	101.24
10.50	13.10	8.22	107.75	19.04	15.68	298.55	14.83	8.37	124.20
10.83	13.86	8.71	120.66	20.64	16.89	348.67	16.10	9.07	145.97
11.15	14.62	9.19	134.30	22.11	18.10	400.22	17.26	9.76	168.44
11.48	15.38	9.67	148.67	22.15	18.70	414.14	18.55	10.45	193.88
11.81	16.14	10.15	163.77	-	-	-	19.72	11.14	219.74
12.14	16.90	10.63	179.60	-	-	-	20.89	11.83	247.21
12.47	17.65	11.11	196.16	-	-	-	22.06	12.53	276.30
12.80	18.41	11.59	213.45	-	-	-	23.39	13.22	309.15
13.12	19.17	12.07	231.47	-	-	-	24.56	13.91	341.70
13.45	19.93	12.55	250.22	-	-	-	25.74	14.60	375.87
13.78	20.69	13.04	269.71	-	-	-	26.92	15.29	411.67
14.11	21.45	13.52	289.92	-	-	-	28.29	15.99	452.18
14.44	22.21	14.00	310.86	-	-	-	29.47	16.68	491.49
14.76	22.97	14.48	332.53	-	-	-	30.65	17.37	532.45
15.09	22.97	14.96	343.58	-	-	-	31.84	18.06	575.04
15.42	22.97	15.44	354.63	-	-	-	33.02	18.75	619.28
15.75	22.97	15.92	365.68	-	-	-	34.21	19.45	665.15
16.08	22.97	16.40	376.73	-	-	-	34.93	20.14	703.34
16.40	22.97	16.40	376.74	-	-	-	34.93	20.83	727.51
16.73	22.97	16.40	376.74	-	-	-	34.93	21.52	751.68
17.06	22.97	16.40	376.74	-	-	-	34.93	22.21	775.84
17.39	22.97	16.40	376.74	-	-	-	34.93	22.91	800.01
17.72	22.97	16.40	376.74	-	-	-	34.93	23.60	824.18
18.04	22.97	16.40	376.74	-	-	-	34.93	24.29	848.34
18.37	-	-	-	-	-	-	34.93	24.98	872.51
18.70	-	-	-	-	-	-	34.93	25.67	896.68
19.03	-	-	-	-	-	-	34.93	26.20	914.93
19.36	-	-	-	-	-	-	34.93	26.20	914.93
19.69	-	-	-	-	-	-	34.93	26.20	914.93