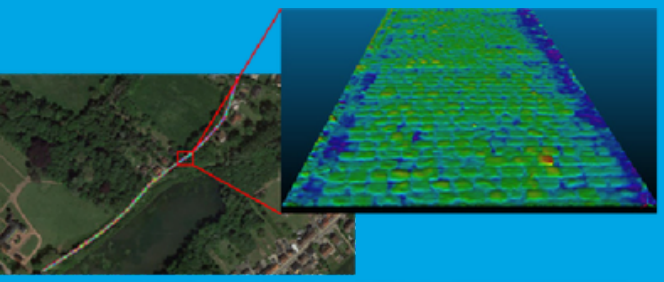
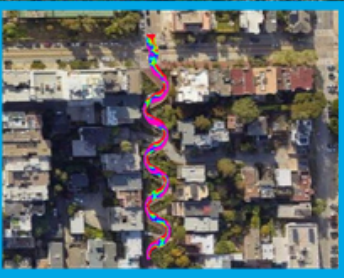
Exact
your exact solution

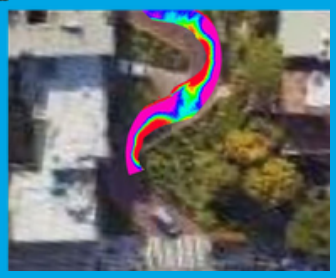
XenomatiX

True solid state lidar

Technical Data Sheet

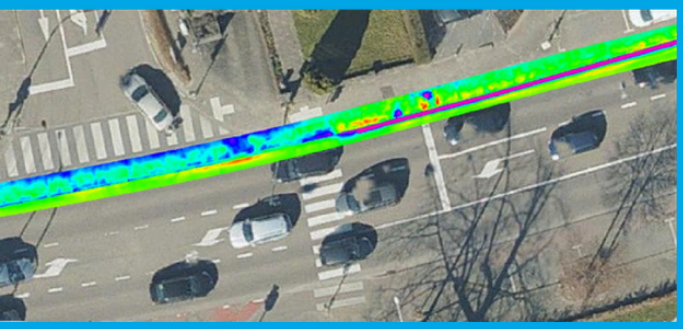














XenoTrack

Road Lidar

PRODUCTS

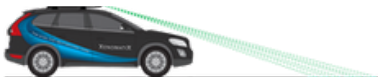
- XenoTrack Single Lane
- XenoTrack Dual Lane
- XenoTrack Front View

OPTIONS

- Premium
- Standard
- Integrator
- Automotive

XenoTrack





	SINGLE LANE	DUAL LANE	FRONT VIEW
			
Range and resolution			
Lateral FOV	4 m	7,5 m	7,5 m
Longitudinal FOV	1,9 - 4,1 m	2,9 - 7,5 m	2,8 - 8,2 m
Horizontal opening angle	60°	60°	60°
Vertical opening angle	20°	20°	20°
Pitch	36°	25°	22°
Smallest resolution x-y digital twin *	5 - 5 mm	10 - 10 mm	10 - 10 mm
Accuracy			
Height accuracy road surface	< 0,45mm	<0,65mm	< 0,95mm
Frame rate	40 Hz	40 Hz	40 Hz
Max measurement points per second	1 120 000	1 120 000	1120 000
Number of laser beams	28 000	28 000	28 000
Single laser accuracy (AASHTO R54-14)	0,23 mm	0,23 mm	0,23 mm
Interfaces			
Estimated 3D data bandwidth	25 MB/s	25 MB/s	25 MB/s
Estimated 3D digital twin bandwidth**	CSV 640 MB/km – LAS 1,5 GB/km – LAZ 96 MB/km – CRG 150 MB/km		
Estimated Intensity bandwidth	PGM 78 MB/km (LAS and LAZ included in 3D digital twin)		
Estimated data bandwidth for 12Mp HD camera	36,5 MB/image – JPG 2,5 MB/image (500 MB/km)		
Data format for offline output	CSV, CRG, LAS		
Real-time data transmission	Ethernet or CAN		
CAN interface	Wire pair		
Optional input sensors	GNSS, IMU, Webcam, External 12Mp HD camera, Wheel encoder		
Triggering mode	Slave		
Triggering signal	5V TTL		
Trigger port SSD capacity	Dedicated wire pair connection		
	2 TB		

* Finest resolution allowed by XenoWare software.
** With an x-y resolution of 10-10mm.

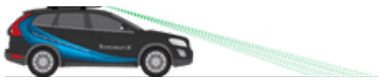
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True solid state lidar

XenoTrack





SINGLE LANE	DUAL LANE	FRONT VIEW
		

Dimensions

Size (W x D x H)		46,7 cm x 19,7 cm x 12 cm	
Weight		2,6 kg	
Controller size (W x D x H)		10,6 cm x 14 cm x 5,5 cm	
Controller weight		650 g	
Mechanical interface		4 x M6 screws	
Max operational driving speed***		100 / 120 km/h	
Smallest turn radius****	7,2 m	12 m	16 m
Installation height	1,8 <> 2,2 m	1,8 <> 2,2 m	1,8 <> 2,2 m

Operating Conditions

Laser classification / Eye safety		Class 1	
Operating temperature		-10 °C to 50 °C	
Storage temperature		-20 °C to 70 °C	
Humidity		10 - 90% non-condensing	
Protection ingress		IP65	
Voltage range		18 -32 VDC	
Power sensor unit	18.6 W	22.6 W	22.6 W
Power controller	15.6 W	15.6 W	15.6 W

*** 100 km/h certified
**** Smallest turn radius for optimal field of view

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The X-Controller is the operating brain of the XenoTrack, controlling the sensor and communication with the optional X-Station.



X-CONTROLLER

Processor	6-core NVIDIA Carmel ARM v8.2 64-bit CPU 6 MB L2 + 4 MB L3
GPU	384-cire NVIDIA Volta GPU with 48 Tensor Cores
Operating System	Linux RTOS
Memory	8-11GB 128-bit LPDDR4x
Power input	6-28V DC, 12V nominal
Power interface	3-pin Terminal Block: IGN, GND, Power
Surge protection	Up to 40V/ 1ms Transient power
Power out	Limited to 8A
Power supply	GST220A12-R7B
Power consumption	16W operational mode
Dimensions	106 x 140 x 55 mm
Weight	760g
Mounting	Mounting bracket
Operating temperature	-25°C to 85°C
Storage temperature	-40°C to 85°C

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