

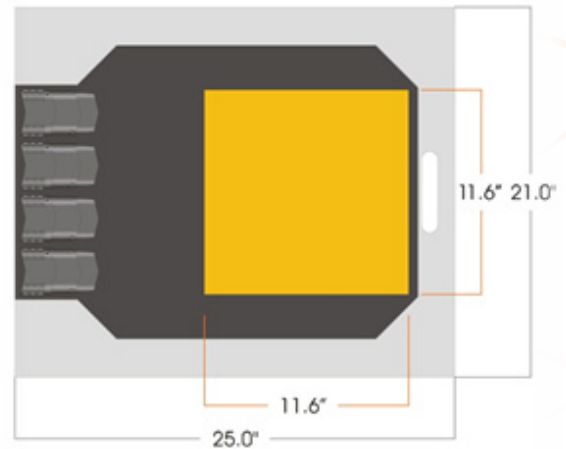
# SENSORS IX500:256.256.22

## PRODUCT DESCRIPTION

The X3 IX500:256.256.22 is a high pressure sensor designed for automotive tire testing. The sensor has a 1.15mm pitch with 65,536 sensing points and is unsurpassed in terms of accuracy and durability. The high resolution provides very clear image quality for tire tread viewing and analysis. The sensor is mounted on a Lexan backing to provide additional durability. The IX500:256.256.22 has been used for both lab and environmental testing.

IX500:256.256.22

SENSING	
<b>Sensor Technology</b>	Capacitive Pressure Imaging
<b>Pressure Range</b>	5-100psi 10-300psi
	3.4-69N/cm <sup>2</sup> 7-207N/cm <sup>2</sup>
<b>Spatial Resolution</b>	0.5"   1.15mm
<b>Accuracy</b>	± 10% full scale*
<b>Sampling Frame Rate</b>	6.2 frames/s**



PHYSICAL CHARACTERISTICS		
<b>Total Area</b>	25" x 21"	63.5cm x 53.3cm
<b>Sensing Area</b>	11.6" x 11.6"	29.5cm x 29.5cm
<b>Thickness</b> (Sensing Area, uncompressed)	0.06"	0.23cm
<b>Thickness</b> (Border – cabling side)	10.5"	26.7cm
<b>Border Width</b> (cabling side)	4.75"	12.1cm
<b>Border Width</b> (non-cabling side)	2.63"	6.7cm
<b>Cable</b>	-	-
<b>Connector</b>	4.76" x 2.76" x 0.09"	12.1cm x 7cm x 2.3cm

## KEY FEATURES

- High-resolution sensors with a 1.15 mm pitch (resolution) and 65,536 sensing points
- Designed for high-quality pressure images with exceptional detail
- Excellent for both lab and environmental testing
- Durable sensors that perform well in subsurface (soil/sand) testing

## REQUIREMENTS FOR OPERATION

- Each IX500:256.256.22 sensor must be connected to four X3 PRO SENSOR PACKS
- The X3 PRO SENSOR PACKS must be connected to an X3 PRO
- The X3 PRO needs to be connected to a power supply and a computer running XSENSOR software to function

\* When verified using the standard XSENSOR verification process.

\*\*Sampling rate based on using X3 PRO Electronics. Frame rate may vary based on computer configuration.

SENSING	
<b>Ambient Temperature</b>	10°C–40°C
<b>Ambient Humidity</b>	5% to 90% RH