

# SENSORS IX500:128.128.05

## PRODUCT DESCRIPTION

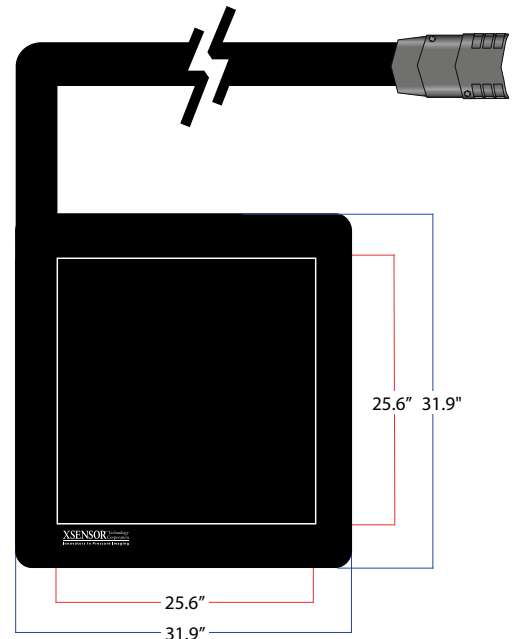
The X3 IX500:128.128.05 is a high pressure sensor with 16,384 sensing points. The sensor has been designed with a tough urethane cover that can withstand outdoor testing for tire applications. The sensor is bendable and can conform to different surfaces. The IX500:128.128.05 provides a combination of higher resolution and faster data acquisition rates so that it can be used in low speed dynamic tire testing.

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>	0.2"   5.08mm
<b>Accuracy</b>	± 10% full scale*
<b>Sampling Frame Rate</b>	16 frames/s**

PHYSICAL CHARACTERISTICS		
<b>Total Area</b>	31.9" x 31.9"	81cm x 81cm
<b>Sensing Area</b>	25.6" x 25.6"	65cm x 65cm
<b>Thickness</b> (Sensing Area, uncompressed)	0.04"	0.11cm
<b>Thickness</b> (Border – cabling side)	0.05"	0.13cm
<b>Border Width</b> (cabling side)	4.5"	11.4cm
<b>Border Width</b> (non-cabling side)	2"	5.1cm
<b>Cable</b>	46.5" x 2" x 0.31"	118cm x 5.1cm x 0.8cm
<b>Connector</b>	4.76" x 2.76" x 0.9"	12.1cm x 7cm x 2.3cm

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

## IX500:128.128.05



## KEY FEATURES

- High-resolution sensors with a 5.08mm pitch (resolution) and 16,384 sensing points
- Designed for large industrial tire testing
- Excellent for both lab and environmental testing
- Durable sensors that performs well in subsurface (soil/ sand) testing
- Sensor is mounted on a Lexan backing for added durability

## REQUIREMENTS FOR OPERATION

- Each IX500:128.128.05 sensor must be connected to two 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.