SENSORS **IX500:192.192.05**

PRODUCT DESCRIPTION

The X3 IX500:192.192.05 is the newest addition to the tire sensor family. This sensor has been designed to test large agriculture tires and mining tires with very large tread patterns.

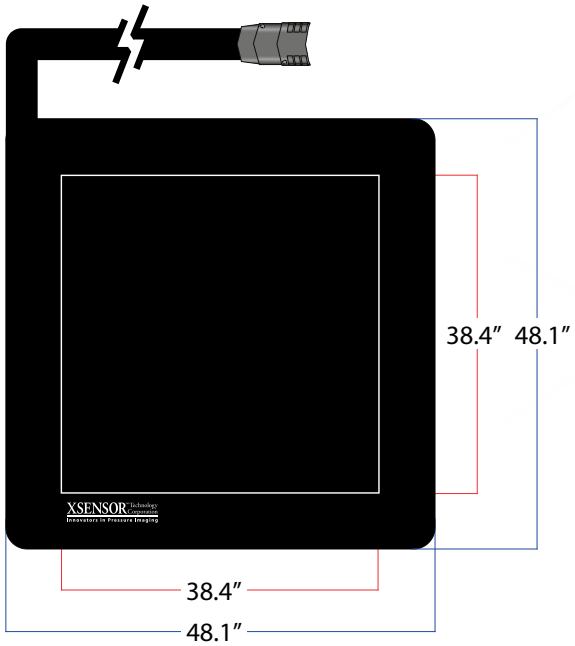
The sensor is mounted onto a supporting sheet of Lexan for additional durability and has a durable urethane cover material for protection from sands and soils. The sensor is supplied with sheer-reducing layers which are laid over the sensor to reduce or eliminate sheer forces. The IX500:192.192.05 is used in lab and outdoor settings, including subsoil testing for tread impact.

SENSING		
Sensor Technology	Capacitive Pressure Imaging	
Pressure Range	10-300psi	
	7–207N/cm^2	
Spatial Resolution	0.2"	5.08mm
Accuracy	± 10% full scale*	
Sampling Frame Rate	10 frames/s**	

PHYSICAL CHARACTERISTICS		
Total Area	48.1" x 48.1"	122.3cm x 122.3cm
Sensing Area	38.4" x 38.4"	97.5cm x 97.5cm
Thickness (Sensing Area, uncompressed)	0.05"	0.14cm
Thickness (Border – cabling side)	0.07"	0.17cm
Border Width (cabling side)	5.7"	14.5cm
Border Width (non-cabling side)	4"	10.3cm
Cable	46.5" x 2" x 0.5"	118cm x 5.1cm x 1.4cm
Connector	4.76" x 2.76" x 0.9"	12.1cm x 7cm x 2.3cm

SENSING	
Ambient Temperature	10°C–40°C
Ambient Humidity	5% to 90% RH

IX500:192.192.05



KEY FEATURES

- High-resolution sensors with a 5.08 mm pitch (resolution) and 36,864 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 IX500:192.192.05 sensor must be connected to three 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.