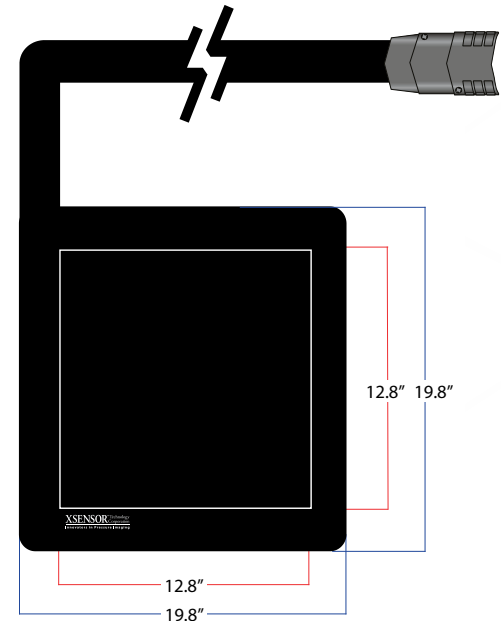# SENSORS  IX500:128.128.10

## PRODUCT DESCRIPTION

The X3 IX500:128.128.10 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 IX500:128.128.10 provides a combination of higher resolution and faster data acquisition rates so that it can be used in low speed dynamic tire testing.

| SENSING | |
|---|---|
| **Sensor Technology** | Capacitive Pressure Imaging |
| **Pressure Range** | 5-100psi<br>10-300psi |
| | 3.4-69N/cm$^2$<br>7-207N/cm$^2$ |
| **Spatial Resolution** | 0.1" · 2.54mm |
| **Accuracy** | ± 10% full scale* |
| **Sampling Frame Rate** | 16 frames/s** |

| PHYSICAL CHARACTERISTICS | | |
|---|---|---|
| **Total Area** | 19.8" x 19.8" | 50.2cm x 50.2cm |
| **Sensing Area** | 12.8" x 12.8 | 32.5cm x 32.5cm |
| **Thickness** (Sensing Area, uncompressed) | 0.04" | 0.11cm |
| **Thickness** (Border – cabling side) | 0.05" | 0.13cm |
| **Border Width** (cabling side) | 4" | 10.2cm |
| **Border Width** (non-cabling side) | 2" | 5.1cm |
| **Cable** | 31.5" x 2" x 0.31" | 80cm x 5.1cm x 0.8cm |
| **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 |

## KEY FEATURES

- High-resolution sensors with a 2.54mm 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 IX500:128.128.10 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.

**XSENSOR**®**Technology Corporation**

**Innovators in Pressure Imaging**