

X3 IX500:128.128.10

PRODUCT DESCRIPTION

Designed for dynamic testing, uneven surfaces and increased speed, the **X3 IX500:128.128.10** is a tire sensor with 16,384 sensing points.

SENSING

Sensor Technology	Capacitive Pressure Imaging	
Pressure Range	2-100psi, 10-200psi 0.141 kg/cm ² - 7.031 kg/cm ² , 0.7031 kg/cm ² - 14.061 kg/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"	50.3cm x 50.3cm
Sensing Area	12.8" x 12.8"	32.5cm x 32.5cm
Thickness (Sensing Area, uncompressed)	0.045"	0.11cm
Thickness (Sensing Area, compressed)	0.020"	0.05cm
Thickness (Border – cabling side)	0.12"	0.31cm
Border Width (cabling side)	4"	10.16cm
Border Width (non-cabling side)	3"	7.62cm
Cable	24" x 2" x 0.36"	60.96cm x 5.08cm x 0.91cm
Connector	4.76" x 2.76" x 0.9"	12.1cm x 7cm x 2.3cm

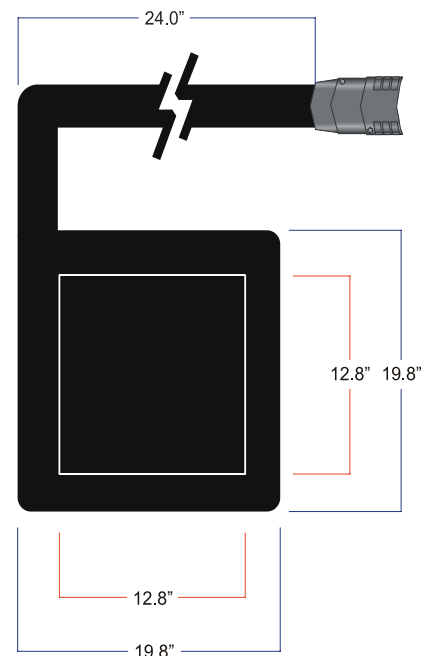
ENVIRONMENT

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

REQUIREMENTS FOR OPERATION

- Each sensor must be connected to two **X3 SENSOR PACK PROs**.
- The **X3 SENSOR PACK PROs** need to be connected to an **X3 PRO**.
- The **X3 PRO** configurations need to be subsequently connected to a power supply and a computer running XSENSOR software to function.

*As tested by XSENSOR's production calibration process. **With an Intel Core 2 Duo processor and XSENSOR's PRO v6.0 software. Results may vary with other configurations.



KEY FEATURES

- Flexible and conformable sensor that can be used on uneven surfaces
- High resolution (2.54 mm) designed for dynamic and environmental testing conditions
- Easy set-up and portability for environmental testing
- High data acquisition rates for dynamic testing (16 frames per second)