

SENSORS IX500:256.256.16

PRODUCT DESCRIPTION

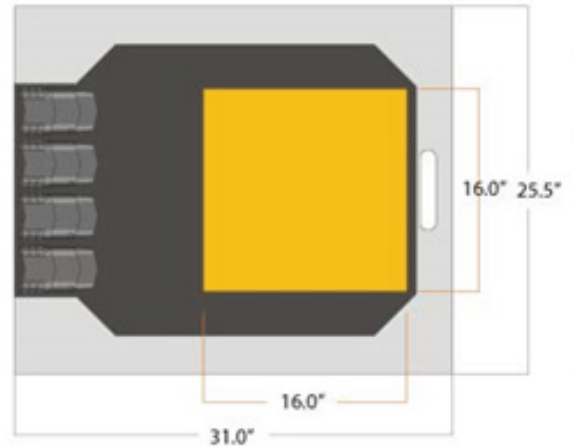
The X3 IX500:256.256.16 is a truck tire sensor with 65,536 sensing points and unsurpassed accuracy and durability. The sensor has a 1.6mm pitch with 65,536 sensing points and is unrivaled in terms of accuracy and durability. The high resolution provides very clear image quality for tire tread viewing and analysis. The sensor is mounted on a Lexan backing to provide additional durability.

SENSING	
Sensor Technology	Capacitive Pressure Imaging
Pressure Range	5-100psi 10-300psi
	3.4-69N/cm ² 7-207N/cm ²
Spatial Resolution	0.063" 1.6mm
Accuracy	± 10% full scale*
Sampling Frame Rate	6.2 frames/s**

PHYSICAL CHARACTERISTICS		
Total Area	25.5" x 31"	64.8cm x 78.7cm
Sensing Area	16" x 16"	40.6cm x 40.6cm
Thickness <small>(Sensing Area, uncompressed)</small>	0.024"	0.06cm
Thickness <small>(Border – cabling side)</small>	0.024"	0.06cm
Border Width <small>(cabling side)</small>	2.85"	7.24cm
Border Width <small>(non-cabling side)</small>	0.4"	1cm
Cable	-	-
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

IX500:256.256.16



KEY FEATURES

- High-resolution sensors with a 1.6 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 IX500:256.256.16 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.