

# GEMINI™



**SENSORTRAN**  
Optical Conclusions

## HSI Product Specifications

Gemini™ HSI DTS systems match PERFECTVISION® multi-laser technology with a high optical budget, yielding a system that can be used over long ranges and eliminating the need for double-ended measurements. Gemini™ HSI are recommended for a wide range of applications where fiber degradation may become an issue.



### Performance

<b>Measurement Range</b>	Up to 10 km
<b>Spatial Resolution</b>	1 meter
<b>Sampling Resolution</b>	0.25 meters
<b>Accuracy</b>	± 1 °C
<b>Temperature Resolution</b>	Typically < 0.07 °C @ 10 km (see graph on reverse)
<b>Measurement Speed</b>	Down to 10 seconds

### Hardware

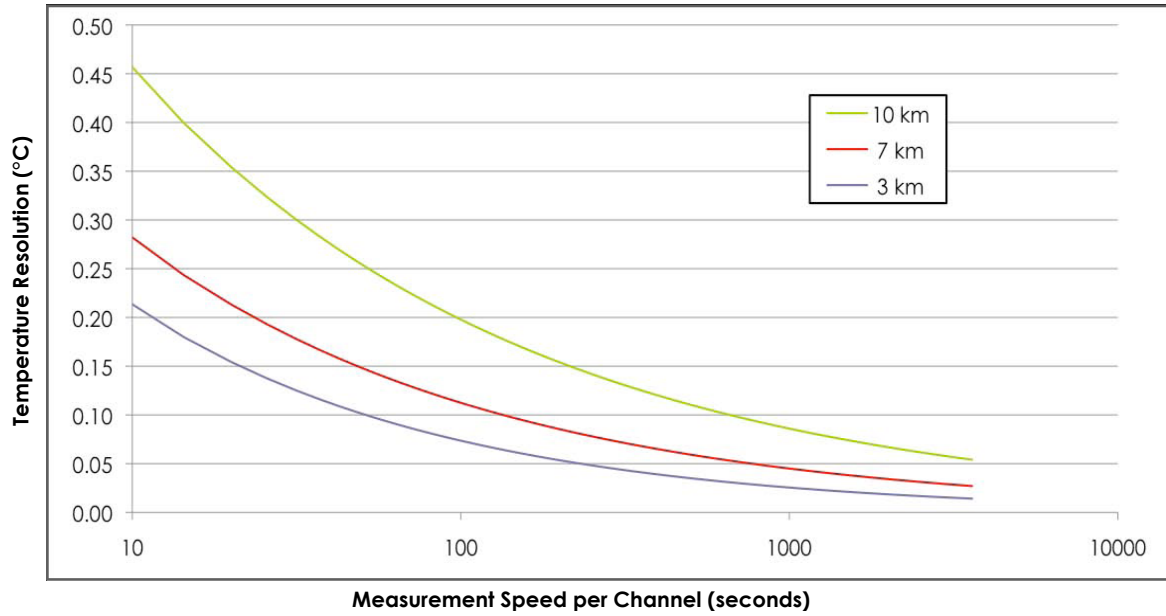
<b>Laser Safety</b>	Class 1M to IEC60825-1:2007	
<b>Operating Environment</b>	0 °C to 40 °C (standard)	
<b>Storage Environment</b>	0°C to +50°C	
<b>Processor &amp; Data Storage</b>	1.66 GHz single-core processor, 160GB solid-state hard drive	
<b>Optical Channels</b>	1, 2, 4, 8, 12, or 16 with E2000/APC connectors	
<b>Optical Fiber Compatibility</b>	50 µm graded index multimode fiber	
<b>Certifications</b>	IEC60825-1, UL61010-1	
<b>Packaging</b>	<b>Rackmount</b>	<b>Portable</b>
<b>Power (AC or DC)</b>	110 - 240 VAC: Peak = 80W, Typical = 70W 18-36 VDC: Peak = 80W, Typical = 70W	110 - 240 VAC: Peak = 100W, Typical = 90W 18-36 VDC: Peak = 100W, Typical = 90W
<b>Dimensions &amp; Weight</b>	48.3 cm (w) x 43.2 cm (d) x 8.9 cm (h) 9.1 kg	55.3 cm (w) x 51.8 cm (d) x 16.0 cm (h) 21 kg (with Case & LCD/Keyboard Drawer)

### Software & Communications

<b>Standard Software</b>	Embedded OS (WES 7), DTS Commander™
<b>Application Software</b>	AssetViewer™ (optional)
<b>Communication Ports</b>	Ethernet x 2, USB x 2, RS232 x 1, PS2 x 1, VGA x 1
<b>Communication Protocols</b>	Optional: Modbus TCP or RTU, OPC, DNP3, WITSML, Profibus*, RS422*, RS485* (*w/converter)
<b>Data Zones &amp; Alarms</b>	Unlimited zoning configuration with alarming capabilities for each zone
<b>Relays</b>	External module (optional)
<b>Remote Access</b>	Full operator remote control and data access capabilities
<b>Diagnostics</b>	Realtime diagnostics for remote support, system health alarms

**NOTE:** Specifications are subject to change without notice.

## Gemini™ HSI DTS Performance



NOTE: Representative temperature resolution data taken on Draka GI MM fiber with measured optical attenuation of 0.50 dB/km @1300nm and 2.30dB/km @ 850nm.

### Gemini™ Model Configuration

GEM - VVV - XX - Y - ZZ

VVV- Range/Model [HSI, HT]  
 XX - Optical Channel count [1/2/4/8/12/16]  
 Y - Package [P = Portable, R = Rack]  
 ZZ - Power [AC/DC]



GEM-HSI-02-P-AC



Optical Conclusions

### Contact

<b>Headquarters</b>	4401 Freidrich Lane, Bldg. 307 Austin, TX 78744 USA	+1-512-583-3520 +1-866-333-2861 (toll-free USA)
<b>Oil, Gas, &amp; Geothermal Sales</b>	262 N. Sam Houston, Suite 410 Houston, TX 77060 USA	+1-281-445-9119
<b>Power, Pipeline, &amp; Process Sales</b>	4401 Freidrich Lane, Bldg. 307 Austin, TX 78744 USA	+1-512-583-3547

[www.sensortran.com](http://www.sensortran.com)

sales @ [sensortran.com](mailto:sales@sensortran.com)