



**DT100 SIR**

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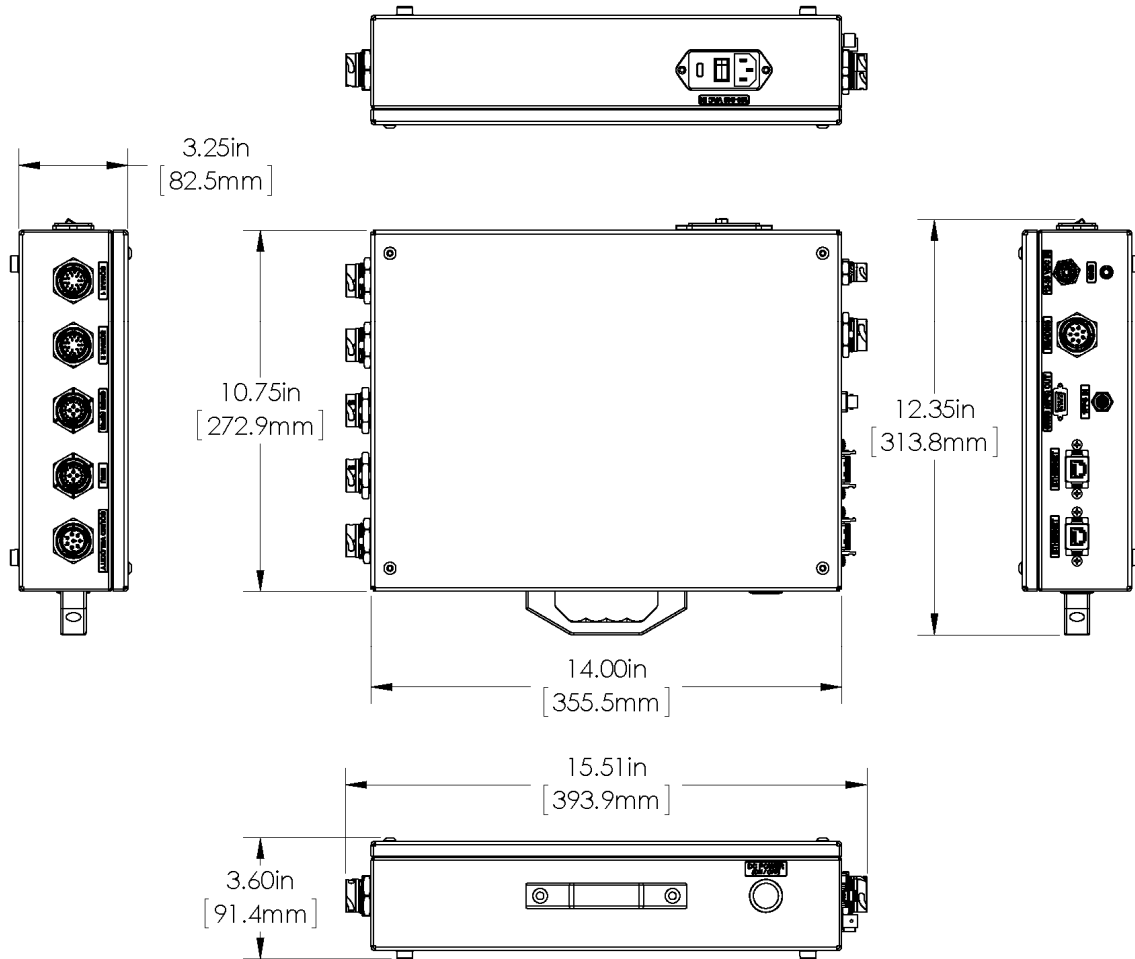
## **IMAGENEX MODEL DT100 SIR SENSOR INTERFACE RELAY**



The new DT100 Sensor Interface Relay (SIR) provides a central connection point for all your bathymetric sensors including sonar (1 or 2 units), GPS, MRU, Gyro/Heading, and Sound Velocity. Powered by AC or DC, the SIR box provides DC operating voltages for each of your sensors. Sensor messages are time stamped and stored at their native update rates with a timestamp accuracy of 100 microseconds.

<b>HARDWARE SPECIFICATIONS:</b>	
<b>INTERFACES TO:</b>	DT100, Delta T, or Odom ES3 w/ext. sync. (1 or 2 units) GNSS (GPS) – \$GPGGA, \$GPVTG, \$GPZDA Motion Reference Unit – TSS1 format Gyro / Heading Sensor – \$HEHDT Sound Velocity Sensor – AML format
<b>1PPS INPUT</b>	Input selectable between GNSS (GPS) connector or 1PPS IN BNC connector
<b>HEADING INPUT</b>	Input selectable between GNSS (GPS) connector or HEADING connector
<b>GNSS (GPS) OUPUT</b> For direct connection to HYPACK acquisition PC	RS-232 output containing buffered GNSS (GPS) sentences with a 1 second PPS toggle on the CTS line (Pin 8), eliminating the need for a Hypack 1PPS box
<b>CONNECTORS</b>	2 port Ethernet switch (DT100 PC and Survey PC) Samtec ACRK series for sensors
<b>POWER INPUT</b>	100 – 240 VAC or 12 – 36 VDC input range
<b>POWER OUTPUT</b>	+12 VDC or +24 VDC (selectable for each sensor)
<b>DIMENSIONS</b>	393.9 mm (15.51") L x 313.8 mm (12.35") H x 91.4 mm (3.60") W
<b>WEIGHT</b>	3.4 kg (7.5 lbs)
<b>MATERIALS</b>	5052 Aluminum
<b>FINISH</b>	Polyester Powder Coat

<b>SOFTWARE SPECIFICATIONS:</b>	<b>DT100_SIR.exe</b>
<b>WINDOWS™ OPERATING SYSTEM</b>	Windows™ XP, Vista, 7, 8, 10
<b>FILE FORMAT:</b> <b>RAW DATA</b> <b>PROFILE POINT</b>	(filename).D1R (filename).D1P
<b>RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:</b>	2 GHz Pentium 4 256 MB RAM 20 GB Hard Disk 1024 x 768 screen resolution



<b>ORDERING INFORMATION:</b>		
<b>Sensor Interface Relay box (DT100 SIR)</b>	Standard	837-000-007

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