

DualSentry Distributed Acoustic Sensor

DETECTOR UNIT (FRONT AND REAR VIEW)





PROCESSOR UNIT (REAR VIEW ONLY)



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PROCESSOR UNIT SPECIFICATIONS

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AIMB-787G2 Main Processor Intel i7 10700 Processor BIOS AMI 64 Mbit SPI

Memory: RAM 16GB

1TB Solid State Drive Memory 2*1 TB HDD (as RAID1)

GRAPHICS

Graphics Card GeForce GTX1650

INTERFACES

USB Front: 2 , Rear: 4

Serial Rear: 1

PS/2 Front: 1 (keyboard) / Rear: 2 (1 x keyboard and 1 x mouse)

HDMI / DVI / Displayport Yes (1 of each)

VGA No

2x connection to DualSentry DU, Ethernet

1x user connection (network switch / SCADA etc.) 1x reserved (remote login / maintenance)

ELECTRICAL

Input Voltage AC 100 ~ 240 V

Power Consumption 300W

Power Supply Safety UL / TUV / CB / CCC

Power Supply MTBF 100,000 hours @ 25 °C

PHYSICAL

Dimensions 482mm x 450mm x 177mm (4U)

Shipping Dimensions 610mm x 330mm x 560mm Weight 12.5 kg (18kg Shipping weight)

System Fan Detail 1 (12 cm / 77 CFM)

ENVIRONMENTAL

Operating: 0° to +40 °C Temperature

Storage -20 ° to 60°C

Operating: 10 ~ 85% @ 40°C, non-condensing Humidity

Storage: 10 ~ 95% @ 40°C, non-condensing

Operating: 1Grms / Non-Operating: 2 G Vibration (5 ~ 500 Hz)

Operating: 10 G (with 11 ms duration, half sine wave) / Non-Operating: 30 G Shock

OPERATING SYSTEM AND SOFTWARE

Operating System Windows 11 Pro

Software DASCM

DETECTOR UNIT SPECIFICATIONS

DualSentry DETECTOR UNIT SPECIFICATION			
Range per channel*	5km or 10km		
Number of channels	2		
Ordering Part Numbers (full system)	DAS-SNT-03-05-02CH/DS System DAS-SNT-03-10-02CH/DS System		
DATA ACQUISITION	Bris Sivi 65 to 62cm, 55 System		
Acquisition Frequency**	2kHz default - 1kHz/2kHz/4kHz as standard		
Event accuracy resolution	1 to 5m		
OPTICAL			
aser Wavelength	1550 nm		
Optical Budget	5 dB		
Connector Type	FC / APC		
Cable type	Single mode 9/125		
Cable Installation Method	Fence Mounted and/or Buried Cable (see installation guide)		
Bandweaver Cable	FenceLine or CovertLine as standard, Other cables available on request		
aser Safety Classification	Class 1		
ELECTRICAL AND HARDWARE INTERFACES			
Supply Voltage	100V-240V AC		
Power Consumption	30W (typical) / 40W (max)		
Relays	20 Relays outputs plus 2 on/off inputs		
erial	RS485 to control additional relays		
PHYSICAL			
Dimensions	431mm x 384mm x131mm (3U)		
hipping Dimensions	570mm x 530mm x 320mm		
Veight	10 kg (13.8kg Shipping Weight)		
P Rating	IP40		
1aterial	Painted Steel		
Colour/Finish	Matt Black		
Shipping dimensions	570 x 330 x 540 mm		
Shipping Weight	15 kg		
ENVIRONMENTAL			
Operating Temperature	-10° to +55°C		
Operating Humidity	O to 95% RH, Non-condensing		
Storage Temperature	-10°C to +85°C		
Storage Humidity	O to 95% RH, Non-condensing		
AFETY AND APPROVALS	o to 35% tar, from concensing		
aser Safety	IEC60825-1		
CE - EMC	EMC 2014/30/EU - EN 61000-6-3:2007+A1:2011		
	EN 61000-3-2:2014		
	EN 61000- 3-3:2013		
	EN 61000-6-1:2007		
CE - LVD	LVD 2014/35/EU - IEC 61010-1:2010		
	EN 61010-1:2010		
CE - RoHS	Yes		
DA	res FDA Ascension number 2422248-000		
CCC	47CFR Part 15:2017		
	ANSI C63.4:2014		
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^{*}Range is dependent on the optical quality of the sensing cableroute. This can be confirmed upon reviewing an OTDR trace vs the planned optical budget.

The above specifications are provided as guidance only and cannot be guaranteed to be exact, and Bandweaver will supply the equivalent or better.

^{**}Specific acquisition frequency is dependent on range and algorithm type. 10-20KHz available on request for select units

