

FenceSentry Distributed Acoustic Sensor

DETECTOR UNIT (FRONT AND REAR VIEW)



PROCESSOR UNIT (REAR VIEW ONLY)



PROCESSOR UNIT SPECIFICATIONS

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Main Processor	AIMB-787G2
Processor	Intel i7 10700
BIOS	AMI 64 Mbit SPI
Memory: RAM	16GB
Memory	2 TB Solid State Drive 2*1 TB HDD (as RAID)

GRAPHICS

Graphics Card	GeForce GTX1650
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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
Ethernet	2x connection to FenceSentry DU, 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

Temperature	Operating: 0° to +40 °C Storage -20 ° to 60°C
Humidity	Operating: 10 - 85% @ 40°C, non-condensing Storage: 10 - 95% @ 40°C, non-condensing
Vibration (5 - 500 Hz)	Operating: 1Grms / Non-Operating: 2 G
Shock	Operating: 10 G (with 11 ms duration, half sine wave) / Non-Operating: 30 G

OPERATING SYSTEM AND SOFTWARE

Operating System	Windows 11 Pro
Software	DASCM

DETECTOR UNIT SPECIFICATIONS

FENCEENTRY DETECTOR UNIT SPECIFICATIONS

Range per channel*	5km or 10km
Number of channels	2
Ordering Part Numbers	DAS-FS-03-05-2CH DAS-FS-03-10-2CH

DATA ACQUISITION

Acquisition Frequency	10 to 2,000 Hz
Event accuracy resolution	1 to 5m

OPTICAL

Laser Wavelength	1550 nm
Optical Budget	5 dB
Connector Type	FC / APC
Cable type	Single mode 9/125
Bandweaver Cable	FenceLine as standard, Other cables available on request
Laser 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
Serial	RS485 to control additional relays
USB	No

PHYSICAL

Dimensions	431mm x 384mm x131mm (3U)
Shipping Dimensions	570mm x 530mm x 320mm
Weight	10 kg (13.8kg Shipping Weight)
IP Rating	IP40
Material	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	0 to 95% RH, Non-condensing
Storage Temperature	-10°C to +85°C
Storage Humidity	0 to 95% RH, Non-condensing

SAFETY AND COMPLIANCE

Approvals and Certifications	Laser Safety Class 1, CE - EMC, CE - LVD, CE - RoHS, FDA, FCC
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*Range is dependent on the optical quality of the sensing cable route. 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.