DualSentry
Distributed Acoustic Sensor

DETECTOR UNIT (FRONT AND REAR VIEW)

PROCESSOR UNIT (REAR VIEW ONLY)

Monitored | Secured | Safe

PROCESSOR UNIT SPECIFICATIONS

PROCESSOR UNIT SPECIFICATIONS	
Main Processor	AIMB-707
Processor	Intel i7 10700
BIOS	AMI 64 Mbit SPI
Memory: RAM	16GB
Memory	2 TB Solid State Drive (enquire for additional memory requirements)
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
Ethernet	2x connection to DualSentry 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 Pro/Enterprise
Software	DASCM and MaxView Express

DETECTOR UNIT SPECIFICATIONS

DualSentry DETECTOR UNIT SPECIFICATIONS	
Range per channel*	5km or 10km
Number of channels	2
Ordering Part Numbers	DAS-DS-03-05-2CH DAS-DS-03-10-2CH
DATA ACQUISITION	
Acquisition Frequency	10 to 800 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 or CovertLine 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

*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.

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