



SEA-BIRD
SCIENTIFIC

SUNA V2 Configurations

PART #	DESCRIPTION	NOTES
SUNA	SUNA V2 (Submersible Ultraviolet Nitrate Analyzer) with advanced nitrate processing algorithm, adaptive sampling, serial telemetry and USB communications	Depth rating is 500 m, or 100 m if the integrated bio-fouling wiper is selected. Instrument comes with Windows or Mac software package.
SUNA Pathlength Selections – MUST SELECT ONE		
SUNA.0xxxx	10 mm optical pathlength	Ideal for low turbidity, low CDOM coastal and oceanic applications
SUNA.1xxxx	5 mm optical pathlength	Reduced pathlength to decrease attenuation of UV light in the sample path, useful in high turbidity (e.g. > 600 NTUs) or high CDOM water

SUNA Anti-fouling Selections – MUST SELECT ONE		
SUNA.x0xxx	No wiper	No wiper or anti-fouling guard selected
SUNA.x1xxx	Integrated bio-fouling wiper	Mechanical wiper integrated into the instrument housing, mechanically cleans optical window prior to each sample, best available bio-fouling protection
SUNA.x2xxx	Bio-fouling guard	Copper guard that fits in the optical path to reduce bio-fouling growth on the optical windows; for use only with the 10 mm optical pathlength
SUNA Telemetry Selections		
SUNA.xx0xx	RS-232	Serial telemetry option
SUNA.xx1xx	RS-232, analog (0-5 VDC), SDI-12	Analog and SDI-12 telemetry options in addition to serial

SUNA Communication and Storage Options		
SUNA.xxx0x	USB Communications	USB Communications
SUNA.xxx1x	USB Communications and 2 GB memory	Internal logging capability with 2 GB data storage capacity
SUNA Calibration Options		
SUNA.xxxx0	Class-based freshwater calibration	Nitrate extinction coefficients derived from archive of previous calibrations; for freshwater (< 1 PSU) use only
SUNA.xxxx1	Freshwater calibration	Nitrate extinction coefficients determined with fresh standards on specific instrument; for freshwater (< 1 PSU) use only
SUNA.xxxx2	Saltwater calibration	Nitrate and bromide (main UV absorbing species in salt water) coefficients determined with fresh standards on specific instrument

SUNA Kit Option		
SUNA.xxxxx S	Kit	Includes USB programming cable and Pelican shipping case
SUNA Accessories		
ASY-NTR-00 076	Copper bio-fouling guard	For use with 10 mm pathlength only
ASY-NTR-00 107	Flow cell	For use with 10 mm pathlength; can be used with or without integrated wiper
ASY-NTR-00 102	Flow cell	For use with 10 mm pathlength; can be used with or without integrated wiper
ASY-CAB-00 254	USB programming cable	
ELE-PIG-000 26	Pigtail 8pin female	Requires locking sleeve

ELE-BLK-00 018	Locking sleeve female	Requires pigtail
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Example: SUNA.01012S is a SUNA V2 with 10 mm pathlength, integrated wiper, RS - 232 output, internal logging (2GB) and USB communications, and saltwater calibration .

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SUNA Anti-fouling Selections – MUST SELECT ONE

SUNA.x0xxx	No wiper	No wiper or anti-fouling guard selected
SUNA.x1xxx	Integrated bio-fouling wiper	Mechanical wiper integrated into the instrument housing, mechanically cleans optical window prior to each sample, best available bio-fouling protection
SUNA.x2xxx	Bio-fouling guard	Copper guard that fits in the optical path to reduce bio-fouling growth on the optical windows; for use only with the 10 mm optical pathlength

SUNA Telemetry Selections

SUNA.xx0xx	RS-232	Serial telemetry option
SUNA.xx1xx	RS-232, analog (0-5 VDC), SDI-12	Analog and SDI-12 telemetry options in addition to serial

SUNA Communication and Storage Options

SUNA.xxx0x	USB Communications	USB Communications
SUNA.xxx1x	USB Communications and 2 GB memory	Internal logging capability with 2 GB data storage capacity

SUNA Calibration Options

SUNA.xxxx0	Class-based freshwater calibration	Nitrate extinction coefficients derived from archive of previous calibrations; for freshwater (< 1 PSU) use only
SUNA.xxxx1	Freshwater calibration	Nitrate extinction coefficients determined with fresh standards on specific instrument; for freshwater (< 1 PSU) use only

SUNA.xxxx2	Saltwater calibration	Nitrate and bromide (main UV absorbing species in salt water) coefficients determined with fresh standards on specific instrument
SUNA Kit Option		
SUNA.xxxxxS	Kit	Includes USB programming cable and Pelican shipping case
SUNA Accessories		
ASY-NTR-00076	Copper bio-fouling guard	For use with 10 mm pathlength only
ASY-NTR-00107	Flow cell	For use with 10 mm pathlength; can be used with or without integrated wiper
ASY-NTR-00102	Flow cell	For use with 5 mm pathlength; can be used with or without integrated wiper

ASY-CAB-00254	USB programming cable	
ELE-PIG-00026	Pigtail 8pin female	Requires locking sleeve
ELE-BLK-00018	Locking sleeve female	Requires pigtail