

AM06 - Texas A&M AgriLife Research Purchase Order

P.O. Date: 12/19/2016

Purchase Order Number

AM06-17-P041435

SHOW THIS NUMBER ON ALL
PACKAGES, INVOICES AND
SHIPPING PAPERS.

V E N D O R	Vendor Number: 00060184 Analytical Spectral Devices Inc 2555 55th St Ste 100 Boulder, CO 80301
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S H I P T O	AGRILIFE RES & EXT CTR-SONR Attn: Pam Surley (325)653-4576 ext. 226 For shipping instructions see below For shipping instructions see below For shipping instructions see below, TX 55555 US Email: SANG-SONRPurchasing@ag.tamu.edu Phone: (325) 653-4576
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INVOICING VENDOR SHALL SUBMIT AN ITEMIZED INVOICE SHOWING PURCHASE ORDER NUMBER. IF YOUR INVOICE IS NOT PROCESSED AS INSTRUCTED, PAYMENT MAY BE DELAYED.

B I L L T O	AGRILIFE RES & EXT CTR-SANG AgriLife Administrative Services (AGSV) 436 578 John Kimbrough Blvd 2147 TAMU COLLEGE STATION, TX 77843 US Email: Apinvoices@ag.tamu.edu Phone: (325) 653-4576
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<p>Please login to Buy A&M to retrieve attachments associated with the Purchase Order.</p> <p>Solicitation (Bid) No.: AM06-17-B000816</p>	Payment Terms: Net 30 Shipping Terms: F.O.B., Destination Freight Terms: Prepaid and Add Delivery Calendar Day(s) A.R.O.: 30
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Item # 2
Class-Item 495-43

FieldSpec 4 Standard-Res; 2.0 M Ruggedized Fiber Optic Cable
Part # FS4S-C2C2A0

FieldSpec 4 Standard-Res is a portable field-ready spectroradiometer used for NIR irradiance and radiance measurements with a spectral range of 350 - 2500 nm and a spectral resolution of 3 nm @ 700 nm and 10 nm @ 1400/2100nm. The FS4S-C2C2A0 model includes a 2 meter permanent ruggedized fiber optic cable and WIFI. Standard accessories include a rigid foam-lined Pelican carrying case, Spectralon white reference panel, ergonomic padded backpack, backpack travel case, fiber optic cable pistol grip, fiber optic cable inspection magnifier, 12VDC 70W power supply, NIMH battery and charger, 20' car charge adapter, and RS3-data collection/calibration/operating software.

List Price \$60,939.00
Discount 25.00%
Total Cost \$45,704.25

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 45,704.25	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 45,704.25

Item # 3
Class-Item 490-43

RadCal 25 Degree Full-range Bare Fiber Optic
Part # S701500

ASD installed NIST traceable calibration that is required for radiance ($W/m^2/steradian/nm$) calculation. ASD must install this calibration at the time of the initial order, or the customer must return the spectrometer to ASD for the installation. Retrofitted calibrations are performance limited according to the instrument maintenance history, condition, and model year.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 475.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 475.00

Item # 4
Class-Item 490-43

Fore Optic Lens, 1 Degree Field-of-view, NIR or Full-range
Part # A119250

1 degree fore optic that attaches to the FieldSpec pistol grip for a 1 degree field-of-view. RadCal of 1 degree full range field of view lens is also required for radiance ($W/m^2/steradian/nm$) measurements. Sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 944.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 944.00

Item # 5
Class-Item 490-43

RadCal 1 Degree Full-range Field-of-view Lens
Part # S701510

ASD installed NIST traceable calibration that is required for radiance ($W/m^2/steradian/nm$) calculation. ASD must install this calibration at the time of the initial order, or the customer must return the spectrometer & fore optic to ASD for the installation. Retrofitted calibrations are performance limited according to instrument maintenance history, condition, and model year.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 475.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 475.00

Item # 6
Class-Item 490-43

Fore Optic Lens, 10 Degree Field-of-view, NIR or Full-range
Part # A121250

10 degree fore optic that attaches to the FieldSpec pistol grip for a 10 degree field-of-view. RadCal of 10 degree full range field of view lens is also required for radiance ($W/m^2/steradian/nm$) measurements. Sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 944.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 944.00

Item # 7
Class-Item 490-43

RadCal 10 Degree Full-range Field-of-view Lens
Part # S701711

ASD installed NIST traceable calibration that is required for radiance ($W/m^2/steradian/nm$) calculation. ASD must install this calibration at the time of the initial order, or the customer must return the spectrometer & foreoptic to ASD for the installation. Retrofitted calibrations are performance limited according to instrument maintenance history, condition, and model year.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 475.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 475.00

Item # 8
Class-Item 490-43

Contact Probe, Plant
Part # A122317

The Contact Probe, Plant provides non-destructive contact reflectance measurements of any solid, for use with FieldSpec, LabSpec, and TerraSpec product lines. This probe is specifically designed for vegetation and other heat sensitive materials. Length 10 inches (including short handle), Weight 1.5 lbs., light source type/Life (approx) Halogen Bulb/1500 hours (126543), Halogen Bulb color temperature 2901 +/- 10 degrees K, Spot size 10mm. Includes external power cable for powering directly from the spectrometer. An optional handle extension is available, sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 1,724.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 1,724.00

Item # 9
Class-Item 490-43

Leaf Clip
Part # A122326

This accessory interfaces with the ASD Plant Probe and the ASD High Intensity Contact Probe. The Clip comes with replaceable white and black background standards (eight of each including the pre-mounted ones). The white backgrounds are .120mm thick x .935" OD Gore-Tex white PTFE reflector material. The black backgrounds are .004" thick x .935 OD black painted Vinyl. A baseline reference panel is also required. Each sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 1,626.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 1,626.00

Item # 10
Class-Item 490-43

Lamp MR11 12v 20 Watt
Part # 134657

Replacement lamp for the Fiber Optic Illuminator (A126515)

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 72.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 72.00

Item # 11
Class-Item 490-43

Accessory Power Cable 2 Meter
Part # A354150

2 meter cable powers lighted accessories directly from the auxiliary power port of FieldSpec (not HandHeld), TerraSpec, and LabSpec product lines. Sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 67.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 67.00

Item # 12
Class-Item 490-43

Muglight
Part # A122100

The Muglight provides a stable and optical platform for reflectance and absorbance measurements of raw materials. Features a tungsten quartz halogen light source with built-in DC current stabilizer circuitry, and Sapphire window. Includes 12VDC 30 Watt external power supply. Recommended optional accessories include: Small Sample Holder, Insert for Small Sample Holder, Small Open Dish for Source Probe, Large Sample Holder, Insert for Large Sample Holder, Large Open Dish for Source Probe, Small White Reference for Source Probe, Adapter Ring, and 1" Diameter Spectralon. Each sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 1,789.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 1,789.00

Item # 13
Class-Item 490-43

Small Sample Holder
Part # A129221

Sample Holder with handle and Quartz window for the ASD Muglights. The sample well has ID of 32 mm. Optional Small Spectralon for Source Probe and 3.62" Dia. Round Spectralon are also recommended for white reference. Optional Small Insert. Each sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
2.00	\$ 158.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 316.00

Item # 14
Class-Item 490-43

Spacer Large
Part # 131213

Large Spacer

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 8.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 8.00

Item # 15
Class-Item 490-43

Remote Cosine Receptor, Full-sky
Part # A124505

This diffuser-type Remote Cosine Receptor (RCR) has two built-in bubble-levels, threaded insert for tripod mounting and quick-connect/disconnect Fiber Optic Cable snap-in feature. This diffuse transmission type Cosine Receptor is for measuring full-sky irradiance and it is durable, compact, and versatile. The required transmissive material and geometry for proper angular response results in Signal-to-noise ratio reduction with significant losses below 400 nm and above 2200 nm. A reflective type Cosine Collector is recommended for optimal measurements in the region 350 - 400 nm and 2200 - 2500 nm such as A124711. Radiometric Calibration of Remote Cosine Receptor is also required for irradiance ($W/m^2/nm$) calculation. Each sold separately.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 900.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 900.00

Item # 16
Class-Item 490-43

RadCal Remote Cosine Receptor
Part # S701550

ASD installed NIST traceable calibration that is required for irradiance ($W/m^2/nm$) calculation. ASD must install this calibration at the time of the initial order, or the customer must return the spectrometer and RCR to ASD for the installation. Retrofitted calibrations are performance limited according to instrument maintenance history, condition, and model year.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 475.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 475.00

Item # 17
Class-Item 490-43

Tripod, Medium-Duty, All-Purpose
Part # 128780

Lightweight aluminum medium-duty tripod for field or lab support. Ideal for mounting and securing portable instrument and accessories such as the HandHeld 2, FieldSpec fiber optic pistol grip, white reference panels, and the remote cosign receptor. Maximum height: 48.9 in., minimum height: 19.7 in., weight: 2.3lbs. Not sold separately through GSA.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 50.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 50.00

Item # 18
Class-Item 490-43

Spectralon, 5X5-inch, Calibrated, 99% Reflective
Part # 128161

Diffuse white reference panel. Includes certificate of standard deviation and reflectance factors to 3 decimal places for 50nm intervals.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 976.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 976.00

Item # 19
Class-Item 490-43

Wooden Case for 5X5-inch Spectralon
Part # 128300

Wooden case with internal padding for 5x5 inch Spectralon.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 465.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 465.00

Item # 20
Class-Item 490-43

Battery Charger, NiMH
Part # A122261

Battery Charger NiMH

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 315.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 315.00

Item # 21
Class-Item 490-43

Battery, Aux NiMH High Current, FieldSpec 3 and 4
Part # 160304

Auxiliary battery for FieldSpec 3 and FieldSpec Pro instruments with serial number 6222 and later. Compatible with LabSpec serial number 4023 and later.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 315.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 315.00

Item # 22
Class-Item 490-43

Training, ASD Scheduled Remote Sensing
Part # S705006

One and one half days (12 hours) group training at the ASD Factory in Boulder, Colorado, USA. Training includes: ASD instrument

overview and setup, use of RS3 and ViewSpec Pro software to collect and post process spectra, collection design and field methods, incorporation of ASD spectra into programs such as ENVI®, a quick introduction to using chemometrics (multi-variate regression) analysis software, discussion of specific application considerations. Each additional person is \$750.00.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 981.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 981.00

Item # 23
Class-Item 490-43

Training, ASD Group Chemometric Training (2 days)
Part # S705012

ASD scheduled training at ASD Factory, Boulder, Colorado USA (travel expenses not included). Two day group training. Includes: basic spectrometer operation, qualitative and quantitative analysis, chemometric software and regression model building. Price is for first person; each additional person is \$750.00.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 981.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 981.00

Item # 24
Class-Item 490-43

FieldSpec 4 One Year Extended Warranty
Part # A800245

This contract will represent an extension of, but is not limited to ASD's original limited factory warranty. Exceptions and exclusions as stated in the ASD LIMITED WARRANTY AND EXTENDED WARRANTIES apply. This extended warranty contract is customer specific and is not transferable, may not be used in exchange for other items, is not refundable, and is not redeemable for cash. This extended warranty contract coverage assumes normal use and no abuse of the products. For the period of the extended warranty contract, coverage shall include software and interface-hardware maintenance necessary for compatibility between the customer's current spectrometer and computer. Excluded from coverage are new software or interface-hardware advances that happen to be incompatible with the customer's current spectrometer and computer. Coverage shall also include the following ASD supplied products purchased with or as accessory to the FieldSpec spectrometer.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 5,187.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 5,187.00

Item # 25
Class-Item 490-43

FieldSpec 4 One Year Extended Warranty
Part # A800245

This contract will represent an extension of, but is not limited to ASD's original limited factory warranty. Exceptions and exclusions as stated in the ASD LIMITED WARRANTY AND EXTENDED WARRANTIES apply. This extended warranty contract is customer specific and is not transferable, may not be used in exchange for other items, is not refundable, and is not redeemable for cash. This extended warranty contract coverage assumes normal use and no abuse of the products. For the period of the extended warranty contract, coverage shall include software and interface-hardware maintenance necessary for compatibility between the customer's current spectrometer and computer. Excluded from coverage are new software or interface-hardware advances that happen to be incompatible with the customer's current spectrometer and computer. Coverage shall also include the following ASD supplied products purchased with or as accessory to the FieldSpec spectrometer.

List Price #5,187.00

Discount 100.00%
 Total Cost \$0.00

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 0.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00

Item # 26
 Class-Item 490-43

Labor Charge, ASD Software Install
 Part # S705032

Installation of ASD software products on to an ASD approved controller computer that was not purchased through ASD. Customer must send the computer and any operating system passwords or lock keys for administrative privileges, and the related ASD hardware to the ASD factory in Boulder, Colorado USA for the installation. Prior to sending the computer to ASD, the customer must schedule an RMA with ASD Technical Support, ensure that the computer is approved by ASD, ensure that all necessary operating system components have been installed, and ensure that the computer has sufficient hard disc space for the installation of ASD software. Customer shall be solely responsible for backing-up all data or non-ASD software products before sending the computer to ASD. ASD shall not be responsible for any non-ASD software products or data on the computer.

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 331.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 331.00

Item # 27
 Class-Item 962-86

Shipping and Handling Charges
 F.O.B. Destination

 SHIPPING ADDRESS:
 Texas A&M AgriLife Research
 Attn: Dr. Doug Tolleson
 395 E.C.R. 760
 Sonora, TX 76950

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 25.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 25.00

Item # 28
 Class-Item 490-43

Trade-In Equipment:
 NIRSystems Model # 4500
 Serial # 1378
 Asset # 1700003576

Quantity	Unit Price	UOM	Discount %	Total Discount Amt.	Tax Rate	Tax Amount	Freight	Total Cost
1.00	\$ 0.00	EA	0.00 %	\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00

Item # 1

TERMS AND CONDITIONS:

Vendor's acceptance is subject to the Agency's terms and conditions, also subject to the mutually agreed upon contract addendum. These supersede any other terms and conditions issued by the vendor. Having the status of a state agency, Texas A&M AgriLife must abide by the laws of the State of Texas.

This purchase order encompasses all of the specifications and terms & conditions of the original bid, #AM06-17-B000816.

DELIVERY:

Within thirty (30) days after receipt of purchase order.

PAYMENT TERMS:

Net 30 days upon receipt and acceptance of item or receipt of correct invoice, whichever is later.

PUBLIC INFORMATION:

(a) The vendor acknowledges that the Agency is obligated to strictly comply with the Public Information Act, Chapter 552, Texas Government Code, in responding to any request for public information pertaining to any resulting Agreement, as well as any other disclosure of information required by applicable Texas law.

(b) Upon the Agency's written request, the vendor will provide specified public information exchanged or created under this Agreement that is not otherwise excepted from disclosure under Chapter 552, Texas Government Code, to the Agency in a non-proprietary format acceptable to the Agency. As used in this provision, "public information" has the meaning assigned Section 552.002, Texas Government Code, but only includes information to which the Agency has a right of access.

(c) The vendor acknowledges that the Agency is required to post a copy of any resulting fully executed Agreement on its Internet website in compliance with Section 2261.253(a)(1), Texas Government Code.

Reference ASD quote # 00180939

TAX:	\$ 0.00
FREIGHT:	\$ 0.00
TOTAL:	\$ 65,620.25

ANY EXCEPTIONS TO PRICING OR DESCRIPTION CONTAINED HEREIN MUST BE APPROVED BY THE TEXAS A&M UNIVERSITY AGENCY PROCUREMENT OFFICE PRIOR TO SHIPPING.

The State of Texas is Exempt from all Federal Excise Taxes.
State and City Sales Tax Exemption Certificate: The A&M System claims an exemption from taxes under Chapter 20, Title 122A Revised Civil Statutes of Texas for purchase of tangible personal property described in this order, purchased from Vendor listed above as this property is being secured for the exclusive use of the State of Texas.

FAILURE TO DELIVER: If the Vendor fails to deliver these supplies by the promised delivery date or a reasonable time thereafter, without giving acceptable reasons for delay, or if supplies are rejected for failure to meet specifications, the State reserves the right to purchase specified supplies and equipment elsewhere, and charge the increase in price and cost of handling to the Vendor. No substitution or cancellations permitted without prior approval of The Texas A&M University System.

THE TEXAS A&M UNIVERSITY SYSTEM TERMS AND CONDITIONS APPLY.

APPROVED

By: NICOLE MALAIN

Email: nicole.malain@ag.tamu.eduPhone#: (979) 845-0839

BUYER