



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000127795- PURCHASE OF 2 PUSH CAMERA SYSTEMS FOR PUBLIC
WORKS WAREHOUSE**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
27-Aug-2019 08:24:07 AM



JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Renny Simno
Director

August 26, 2019

ADDENDUM #1

Bid No. 50-127795

Bid Opening Date: August 27, 2019
Postponed Until: August 29, 2019

For: Purchase of (2) Push Camera Systems for the Public Works Warehouse

Bid quantity is being increased to 2. Also, bid will be extended for 2 more days.

Sincerely,

Rae Lynn Scott, Buyer I
Jefferson Parish Purchasing Department

**Bidders must acknowledge all addenda on the bid form. Bidder acknowledges receipt of
This addendum on the bid form as indicated. Failure to do so will result in bid rejection.**

This addendum is a part of the contract documents and modifies the original bidding documents and specifications. The contents of this addendum shall be included in the contract documents. Changes made by this addendum shall take precedence over the documents of earlier date.



Bid Number 50-127795

Purchase of a Push Camera System for Public Works Warehouse

August 27, 2019 at 11:00 am

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053
Buyer Name: Rae Lynn Scott
Buyer Email: rscott@jeffparish.net
Buyer Phone: 504-364-2688**

DATE: 8/21/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00127795

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT@jeffparish.net

Bids will be received until 11:00 AM, 8/27/2019 via online at www.jeffparishbids.net or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only.

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at purchasing.jeffparish.net and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

13

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(l), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

DATE: 8/21/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00127795

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

30-45 Days A.R.O.

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: 1 CR
NUMBER: _____
NUMBER: _____
NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***	
FIRM NAME: <u>Covington Sales & Service, Inc.</u>	
SIGNATURE: (Must be signed here) <u>Chris Kinchen</u>	TITLE: <u>President</u>
PRINT OR TYPE NAME: <u>Chris Kinchen</u>	
ADDRESS: <u>Post Office Box 1144</u> <u>(7868 Florida Blvd. (70726))</u>	
CITY, STATE: <u>Denham Springs, LA</u>	ZIP: <u>70727</u>
TELEPHONE: <u>(225) 664-7427</u>	FAX: <u>(225) 665-1567</u>
EMAIL ADDRESS: <u>jay@covingtonsales.com / pat@covingtonsales.com</u>	

TOTAL PRICE OF ALL BID ITEMS: \$ 25,932.00

DATE: 8/21/2019

Page: 5

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00127795

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	ONLY	<p>Purchase of a Push Camera System for Public Works Warehouse</p> <p>0010 - Cues MPlus Portable Lateral and Mini-Mainline Push Camera System, 200 feet to include: Color self- leveling, Sonde 6 inch-8 inch centering ball, and 8.4 inch industrial grade LCD monitor</p> <p>SEE ATTACHED SPECIFICATIONS</p> <p>Please deliver to: Public Works Warehouse 1500 River Park Road Bridge City, LA 70094 Attn: Julian Jessie</p> <p>★ We take no exceptions to ^(CD) your advertised specifications.</p>	\$12,966.00 \$25,932.00	

**JEFFERSON PARISH DEPT. OF SEWERAGE
SPECIFICATIONS FOR MPLUS PUSH CAMERA SYSTEM**

General:

Vendor to provide one Cues MPlus Portable Lateral and Mini-Mainline Push Camera System, or approved equal.

1. Must have stainless steel frame. Steel frames with Powder Coat, which are subject to corrosion over time will not be accepted.
2. LCD assembly and Keyboard must be mounted in waterproof box that can be operated remotely from the reel.
3. Coiler must have 10 inch wheels for maximum portability over off-road surfaces. Coiler must have 450lbs weight rating.
4. Must have 8.4 inch industrial grade LCD monitor with an optically bonded glass for sunlight view ability and durability. The optically bonded glass construction eliminates condensation issues and is scratch resistant.

Component List:

Control Unit with Text Writing, Observation Coding, Digital Recording, and Industrial Grade Monitor in a weather/water resistant enclosure, to include:

- 8.4 inch industrial grade, optically bonded, sunlight viewable, monitor with anti-reflective properties and LED backlighting
- Operator interface with controls for all camera functions
- Video Titling to include multiple predefined and customizable screens
- Digital video recording features video recording, playback, and records screenshot picture images
- A USB port for transferring digital video and still images directly from the MPlus+ Control Unit to a PC
- Control Unit quick bracket mount for attaching to the coiler with hands free locking
- System Interface connector features Video, Audio, distance counter quadrature, 12VDC outputs, and a Video input
- Built-in Li-Ion Battery with advanced charging technology for 4 hours of continuous use
- Universal AC power input 85-264 volt AC, 50/60 Hz, or 12 Volt DC Power Source

Stainless Steel Coiler to include:

- Heavy 18 gauge and corrosion resistant Stainless Steel construction
- Adjustable height handle for portability with cam locks and button stops
- Large 10 inch durable wheels for portability and a balanced footprint for stability
- Quick-Connect allows Control Unit mounting with 3 axes adjustability
- Adjustable coiler brake
- Integral distance sensor

Accessory Kit to include:

- Sunshield for enhanced sunlight view ability
- Interconnect cable for connecting the coiler to the control unit
- AC power cord
- Accessory bag for storage

200 feet Mini System Push Cable Assembly

- Push Cable with Durable Hytrel Jacket and Advanced Fiberglass Rod

Self-leveling color camera with built-in sonde, to include:

- 1 ½ inch Stainless Steel Camera head designed for 2 inch to 12 inch Pipe
- 512 Hz integral sonde
- 12 high intensity LEDs

Centering ball, 6 inch mini camera III

Debris Bag for Push Cable Coiler Basket

Detailed Specifications:

PORTABLE LATERAL INSPECTION PUSH SYSTEM

A portable push system shall be provided for inspecting service laterals and/or pipelines 2 inch through 12 inch in diameter.

The system shall be lightweight and easily transportable. It shall be modular in design, enabling easy operation in an All-In-One configuration; and additionally allowing the removal of the control unit to be used separately, or to accommodate compact storage.

Systems that do not have a modular design will not be accepted.

It shall be specifically designed to inspect up to 200 feet into the lateral service or pipeline by utilizing the following equipment (minimum): Coiler, Control Unit with high-resolution high-view ability LCD Monitor, On-Screen text writing and on-screen observation documentation, Small Diameter Pipe Self-Leveling Camera with integrated Sonde, and 200 feet of .197 inch Diameter Fiberglass Rod Push Cable.

Optional equipment will include the following (minimum): Line Trace post, 100, 300, and 350 feet optional cable configurations, Centering Ball Skids, Mainline Interface cable and digital Wireless Transmitter.

Control Unit

Shall include a built-in 8.4 inch (minimum) industrial grade LCD monitor with an optically bonded glass for view ability and durability and have LED backlighting.

Shall feature an optional removable sunshade.

Shall include a Li-Ion 12 volt battery, integral in the Control Unit, to operate the specified small diameter color camera up to 4 hours.

Built-in battery charging shall also be equipped with Intelli-charge Technology for safety and reliability.

The battery shall recharge with mains power without the unit being powered on.

Housing shall be injection molded of a Polypropylene resin and feature a Neoprene perimeter O-ring design for a waterproof IP67 rating.

A permanent mounting bracket shall be included for mounting Control Unit to Coiler.

Control Unit shall be modular and allow use up to 10 feet from coiler.

Shall include mains power receptacle on the outside of the control unit for convenient recharge of the battery.

Shall include the interconnect coiler cable on the outside of the control unit for transport of the system without disconnecting the control unit from the coiler.

A system LED indicator shall be incorporated into the front of the control unit and shall indicate System On, Battery Fully Charged, Battery Charging, and Battery Fault. Battery Charging status LEDs shall operate when system is turned off. Connections including USB, Video out, Video in, audio out, distance counter quadrature out, auxiliary 12VDC out, and auxiliary microphone jack shall be located inside a closed Control Unit for protection. Built-in microphone and speaker shall be located on the front of the control unit and sealed from the environment. Microphone and speaker functionality shall be located on the user Interface keypad and be clearly marked. User interface keypad shall be of a silicon rubber molded design to resist water and other contaminants. Main system functionality including light intensity, distance counter controls, digital video recording, text writing, observation coding, and system menu shall be integrated into one user Interface keypad for ease of operation. Separated system control buttons will not be accepted. Digital Video Recording including the DVR control buttons shall be fully integrated into the Control Unit. External DVR recording devices will not be accepted. All DVR functionality and menu operations shall be displayed on-screen for operator viewing. DVR recording shall incorporate SD memory card slot and a USB port for the transfer of videos and images to a PC. Shall operate from an 85 volt to 264 volt AC 50/60 Hz, or optional 12 volt DC power source. Electronics shall be weather-resistant to withstand operating conditions and extended outside storage.

On-Screen Tilter, Data and System Information

A combination on-screen tilter, data and user information system shall be provided. The on-screen tilter shall be designed for standalone push system applications, but shall be fully compatible with external observation software or other asset management systems. A built-in combination on-screen tilter, data and user information system shall be provided. System shall feature 4 display modes including "LIVE MODE", predefined text screens, "OBSERVATION CODES", and "ARROW MODE". LIVE MODE shall feature clear screen with no tilting and shall offer the default OSD features, including:

- Distance Counter - in the selected position or off
- Battery Status Indicator if selected and Low Battery Indication.
- Time/Date - in the selected position or off.
- Microphone/Speaker indicator
- Predefined text screens (Predefined text screens shall feature a minimum of 4 predefined screens including: CLIENT PAGE, CONTRACTOR PAGE, FREEFORM PAGE 1, AND FREEFORM PAGE 2.
- OBSERVATION CODES
 - Observation Codes feature shall be provided for observational data input.
- ARROW MODE
 - Arrow Mode feature shall be provided for observation identification.

All user functionality shall be programmable with the use of a System menu and shall be navigated using system arrows for ease of use.

System menu shall include:

- Coiler Configuration options
 - Time and Date configuration options and on-screen position options.
- Distance Counter settings including on-screen position, preset distance and master reset options.
- Battery Setting options including battery gauge indication
- Distance unit selection including imperial (ft) and metric (m).
- Video format selection including NTSC and PAL
- Camera head selection
- Wireless transmitter settings including On/Off functionality

Coiler

Coiler shall be constructed of 18 gauge stainless steel coiler frame with a lightweight, open wire frame basket design. Painted frames and baskets will not be accepted.

Shall be able to adequately store up to 350 feet of .197 inch fiberglass rod push cable with Hytrel Jacket. Shall include a footage sensor with minimum 500 CPR located on the coiler basket. Mechanical counters will not be accepted.

Shall be equipped with minimum 10 inch wheels for easy portability. Shall feature an adjustable height handle for portability.

Shall feature a Quick-Connect feature for mounting of the Control Unit, and shall be equipped with a no-handed locking mechanism for secure mounting.

Control Unit mounting shall have the ability to tilt, swivel, and rotate for best viewing angle.

Coiler shall incorporate 4 non-marring rubber feet for standard vertical operation and an additional 3 non-marring rubber feet for operation in a horizontal operation.

Camera Assembly, Set up

The small diameter pipe color television camera shall be specifically designed to operate in 2 inch to 12 inch pipe, and negotiate multiple bends while maintaining an upright camera position. CAMERAS THAT ARE UNABLE TO PASS THROUGH A SHORT 90-DEGREE TURN OR A SINGLE TEE CONNECTION IN 4 inch PIPE WITH THE END CONNECTOR AND CABLE IN PLACE WILL NOT BE ACCEPTED.

Camera shall have the following features:

- Manufactured with solid state circuitry to withstand shocks and vibrations.
- Include fixed focus, fixed iris, and auto speed shutter.
- Include a light head containing a minimum of 12 light emitting diodes equaling 78 foot candela.
- Must not exceed 1.5 inches in diameter and 2.75 inches in length without the connector assembly.
- Have the ability to maintain an upright camera position.

Built-in Sonde:

- Shall be designed to emit continuous magnetic pulses/signals with a working distance of 19 feet (minimum) air.
- Shall operate with any constant tone, 512 Hz receiver.
- Internal antenna and driver

ELECTRICAL SPECIFICATIONS & CAMERA REQUIREMENTS:

Image Sensor - CCD, solid state ¼ inch diagonal with DSP

Minimum Illumination - 2 lux

Resolution: 380 TV lines horizontal System Standard NTSC Color

Video Output

-1 V, S/N 46dB or

greater

Lens

2.8mm, F/2.2

Field of View

98° diagonal, 79° (H) wide, 59° (V) high

Electronic Shutter

1/60 s to 1/96,000 s

White Balance

Auto track

Integrated Lights:

12 White LEDs - Intensity @ 12 inches 78 foot-candles 430 candela or 40

lumens Light Power

12VDC to 25VDC, 80mA. 1.92W

Input Camera Voltage

14VDC to 21VDC, 80mA.

Working Pressure

50 PSI (minimum)

Operating Temperature

0° to 45°C

Storage Temperature (Non-Operating)

-20° to 65°C

Self-Upright Method:

Ball bearing and weighted

Connector:

Cues CX1 Connector

Dimensions:

Body Tube Diameter: 1.5 inch / Overall Length, 3.0 inch (2.75 inch without CX1

Connection)

Camera Housing: Made from Stainless Steel

CAMERA LIGHTING: The camera shall include a built-in lighting containing 12 solid state light emitting diodes (LEDs).

Lighting shall be sealed to prevent water entry, and shall include variable light intensity to provide adequate lighting in 2 inch to 10 inch pipe sizes.

The LEDs shall be recessed and O-ring sealed within the lighting to prevent damage from obstacles in the pipe.

SYSTEMS WITH EXPOSED BULBS SUBJECT TO BREAKAGE WILL NOT BE ACCEPTED.

The total light output of the 12 LEDs shall equal 78 foot candela.

Shall include a unique over-voltage protection circuit to prevent burnout of the LEDs.

LEDs shall be individually serviceable and replaceable.

LEDs THAT CANNOT BE REPLACED INDIVIDUALLY AND/OR LIGHTHEADS THAT HAVE TO BE COMPLETELY REPLACED FOR SERVICING WILL NOT BE ACCEPTED.

CAMERA PROTECTIVE HOUSING: The camera electronics shall be housed in a damage resistant, rugged enclosure.

Camera Housing shall be designed to allow the camera to negotiate multiple tight 90-degree bends or a single tee connection in a 4 inch pipe; shall be manufactured from stainless steel; and shall be no greater than 1.5 inch in diameter and 2.75 inch long without the connector assembly.

The front of the housing shall have a viewport of impact resistant, distortion free, optical Sapphire.

The front of the housing will include the lighting with 12 machined and polished openings where the LEDs are mounted.

The rear of the housing shall be equipped with a sealed connector.

Shall be fully sealed at the factory to prevent damage or leakage.

"The Standard of the Industry"



MPlus+ & MPlus+ XL

Portable Lateral & Mini-Mainline Push System

The CUES MPlus+ offers the most flexible and feature packed lateral and mini-mainline push system on the market. The MPlus+ modular design combines easy operation with its refined all-in-one set up with the flexibility of facilitating quick removal of the control unit to be used separately for off road or remote jobsites or to accommodate compact storage. The MPlus+ is the most versatile push system available in the market today.



The advanced MPlus+ system stands out by integrating all of the most sought after features into an easy to use and intuitive package.



This lightweight system is manufactured for rugged reliability and designed to handle rigorous field use.



Push cables incorporate exclusive HDPE jackets and advanced fiberglass rods designed for longer pushes and extended life.



Contact your CUES Regional Sales Representative for a complete list of optional equipment!

MPLUS+ COILER & CAMERA

- Two coiler configurations for lateral & mini-mainline push applications:
 - Industry leading push cables with exclusive HDPE jackets
 - Configurable for any installed push rod length
 - On-screen customizable distance counter
- Standard configuration lateral coiler – 100, 200, 300 and 350ft push cable lengths available:
 - .444" optimized push cable (.197" fiberglass rod) for longer pushes
- XL coiler configuration for mini-mainline applications – 300, 350, 400 and 500ft push cable lengths available:
 - .517" rigid push cable (.236" fiberglass rod) for larger pipeline applications.
 - Configurations include standard SR3 self-leveling camera for 2" - 12" pipelines and an optional advanced pan & tilt camera head for 4" - 12" pipelines.



Covington Sales & Svc. Inc.
P. O. Box 1144
Denham Springs, LA 70727
(225) 664-7427 (800)349-8000

MPlus+ & MPlus+ XL

Features & Benefits

Full featured control unit offers advanced text writing, observation coding, digital recording and more in a weather/water resistant enclosure.

The large 8.4" industrial grade optically bonded monitor offers the clearest picture in adverse conditions.

Extensive video titling includes multiple predefined and customizable screens for job documentation. Customized screens and operator data are retained in memory for efficient operation.

The advanced digital recorder features USB mpg. recording and playback of video and screenshot picture images. The operation is fully integrated with easy to understand intuitive controls. 16GB external and 128GB internal memory is included.

Operate the MPlus+ anywhere with either 110 AC mains power, 12VDC power or the advanced internal Li-Ion battery delivering 4+ hours of use on a single charge.

The standard and XL coils will deliver years of service with their heavy gauge and corrosion resistant stainless steel construction.

OPTIONAL EQUIPMENT

Optional adapters for the MPlus+ to work with truck-mounted/portable mainline systems and asset management software.

Wireless digital video for operation with a mainline truck or any other remote location with receiver.

Mainline interface cable for operation with a CUES multi-conductor TV truck.

Optional pan & tilt camera for mainline or large pipe applications features continuous 360 deg rotation and pan:
- All pan & tilt functionality is fully integrated into the systems' controller; built-in multi-frequency 512 Hz and 8kHz sonde transmitter.

Locator/receiver for accurate camera location in metallic and non-metallic pipelines.

A large array of optional skids and skates.

Quadrature footage interface for external asset management software.

Optional line trace post for 128Hz, 1kHz, 8Hz and 33kHz locating.



MPLUS+ CONTROLLER

8.4" display mounted in a weather resistant control unit that features a quick connect mount for attaching to the coiler.

Digital recorder with integrated controls featuring intuitive buttons for all recording and playback functions. Features dual drive recording for redundancy and file safety.

System Interface connection offers flexibility for unique applications and includes video, audio, and 12VDC outputs and a video input. Quadrature footage output for optional asset management software.

Internal Li-Ion Battery with Intellicharge technology offers 4+ hours of continuous use on a single charge. Also accepts AC and 12 VDC power input.



MPlus+ XL with Optional Pan & Tilt Camera

