

**STATE OF MINNESOTA  
PRICING PAGE  
(Typed Responses Required)**

Price quote for:

**Crawler Inspection Camera System**

Vendor Name: **ELXSI d/b/a CUES**  
 Contact Person: **Paul Stenzler**  
 Street Address: **3600 Rio Vista Avenue**  
 P.O. Box:  
 City, State, Zip: **Orlando, FL 32805**  
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 Email Address: [PaulS@cuesinc.com](mailto:PaulS@cuesinc.com)

Spec #	Information Requested	Answer
1.0	<b>Make &amp; Model</b>	CUES - K2 Portable TV System
	<b><u>Crawler:</u></b>	
	Number of drive wheels/tracks	base unit includes wheeled transporter with 6 wheels - track unit offered as option
	Number of drive motor(s)	1
	Drive mechanism (chain, belt, gear, etc.)	chain
	Does drive mechanism have a clutch	yes
	Internal pressure rating	N/A - cavity is enclosed - not pressurized - no electronics in cavity
	Pressurization method	N/A
	Does crawler maintain pressure if camera is removed	N/A
	Over/under pressure indicator light	N/A
	Can repressurization be accomplished in the field	N/A
	Quantity, type & size of tracks/wheels included with base package	3 sets of wheels for pipe sizes 6"-15"
	Overlapping wheel design to prevent high centering	yes
	Wheel/Track change tool requirement	standard tools
	Wheel/Track change time requirement	3 minutes
	Minimum pipe diameter	6"
	Dimension-crawler only (LxHxW)	219.4 x 3.9 x 5.4

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	Overall length with camera attached	25"
	Weight of crawler	31.2 lbs.
	Overall weight crawler with camera attached	40.1
	Material the crawler constructed from	brass and stainless steel
	Cable connector type to crawler	8 pin
	Tools required to connect/disconnect crawler from cable	none
	Number of controls required to operate crawler	one
	Direction crawler can operate (example: forward/neutral/reverse)	forward/neutral/reverse
	Is crawler steerable	offered as an option
	Does crawler have rear vision camera capability	yes - offered as an option
	Inclinometer standard	offered as an option
	Power requirement (watts/amps/voltage)	110 Volt AC
	Is a Sonde device available	yes - offered as an option
	<b><u>Camera:</u></b>	
	Pan & tilt	yes
	Pan and tilt control type	wired controller - wireless controller offered as an option
	Home position control type	home feature on controller
	Pixels & lines of resolution	379,392 pixels and 470 lines of resolution
	Zoom (magnification optical & digital)	10 x 4 Zoom
	Lux rating	3 lux @ F/1.4
	Construction material	100% solid state circuitry
	Lens type	optical grade sapphire
	Lens field of view (VxHxD)	56 diagonal x 46 horizontal x 4.6 tele end
	Black & white or color	color
	Lighting type	built in white LED lighting
	Type of lighting control	controller
	Field replaceable lights	yes
	Focus (auto & manual)	yes- auto with manual override
	Connection type	sealed bulkhead connector

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Spec #	Information Requested	Answer
	Dimensions (LxHxW)	17.7 x 4.5 x 3
	Camera weight	11 lbs.
	Pressurization method	nitrogen
	Internal pressure rating	150 psi
	Over/under pressure indicator light	N/A
	Does camera maintain pressure when removed from crawler	yes
	Will camera connect to cable w/o crawler and be fully functional	yes
	Maximum viewing angle for pan	360 degree rotation
	Maximum viewing angle for tilt	330 degree pan angle
	Camera controller have "home" position function type	yes
	Does camera have the ability to view 360 degrees	yes
	Field replaceable windshield on camera	no
	<b><u>Cable:</u></b>	
	Cable length	1000'
	Cable diameter	.350"
	Break strength	1000 lbs.
	Single or multi-conductor	Multi conductor - single conductor offered as an option
	Repairable	yes
	<b><u>Cable Reel:</u></b>	
	Motorized (yes/no)	yes
	Drive type	electric motor
	Automatic pay-out, or pulled by crawler	pulled by transporter in base system - auto payout offered as an option
	Automatically payed-in	yes
	Cable reel level wind system	yes
	Drum emergency stop switch	yes
	Resettable counter	yes
	Counter-mechanical or electronic	electronic
	Forward/reverse engagement control type (manual or electronic)	electronic
	Speed control type	knob
	Type of torque control	clutch

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<b>Spec #</b>	<b>Information Requested</b>	<b>Answer</b>
	Overheat sensor	N/A
	Cable reel capacity	1000'
	Portable	yes
	Dimensions (LxHxW)	51" h x 29" w x 39" d
	Power requirements	110 volt
	<b><u>Central Control Unit:</u></b>	
	Power requirements	110 V AC or 220 VAC 50 HZ or 60 Hz
	Circuit protection type	over voltage & over current
	Video in/out	yes
	Type of text generator	built in alpha numerical video character generator
	Keyboard	yes
	Desktop camera control	yes
	Number of video text generators on-screen	55 pre-programmed defect codes and 70 user programmable defect information codes
	Video display of footage, time and date	yes
	Warranty	12 months on parts and labor
	<b>BASE UNIT PRICE:</b>	<b>\$42,500.00</b>

AUGUST 2013

VENDOR NAME

ELXSI d/b/a CUES

MAKE AND MODEL

CUES- K2 Portable TV System

Spec #	Description	Qty	Price	Subtotal
1.0	<b>Price for base unit:</b>		\$ 42,500.00	\$ 42,500.00
1.1	<b>Crawler Options</b> Use this section to offer crawler options. Number items starting with 1.11, 1.12, etc. Use as many numbers as you need.			
1.11	Standard Track Transporter in lieu of Compact Non Steerable Wheeled Transporter 6" - 15" offered in base system	1	\$ (1,000.00)	\$ (1,000.00)
1.12	Standard Track Transporter in addition to Compact Non Steerable Wheeled Transporter 6" - 15" offered in base system	1	\$ 6,900.00	\$ 6,900.00
1.13	Add on tracks in addition to wheels on Compact Non Steerable Wheeled Transporter	1	\$ 3,900.00	\$ 3,900.00
1.14	Wheeled Transporter 8" - 15" in lieu of Compact Non Steerable Wheeled Transporter offered in base system	1	\$ 1,500.00	\$ 1,500.00
1.15	Wheeled Transporter 8" - 15" in addition to Compact Non Steerable Wheeled Transporter offered in base system	1	\$ 11,850.00	\$ 11,850.00
1.16	Compact Steerable Wheeled Transporter 6" - 30" in lieu of Compact Non Steerable Wheeled Transporter offered in base system	1	\$ 3,800.00	\$ 3,800.00
1.17	Compact Steerable Wheeled Transporter 6" - 30" in addition to Compact Non Steerable Wheeled Transporter offered in base system	1	\$ 14,800.00	\$ 14,800.00
1.18	Steerable Wheeled Transporter 8" - 15" in lieu of Compact Non Steerable Wheeled Transporter offered in base system	1	\$ 3,800.00	\$ 3,800.00
1.19	Steerable Wheeled Transporter 8" - 15" in addition to Compact Non Steerable Wheeled Transporter offered in base system	1	\$ 13,400.00	\$ 13,400.00
1.20	Steerable Large Pipe Wheeled Transporter 24" - 200" to include electric lift and high power lighting system in lieu of Compact Non Steerable Wheeled Transporter in base system	1	\$ 13,000.00	\$ 13,000.00
1.21	Steerable Large Pipe Wheeled Transporter 24" - 200" to include electric lift and high power lighting system in addition to Compact Non Steerable Wheeled Transporter in base system	1	\$ 21,500.00	\$ 21,500.00
1.22	Weighted Extenders for Compact Non Steerable Transporter and tracked Transporters for 18" - 24"	1	\$ 795.00	\$ 795.00
1.23	Mechanical Lift for Wheeled Transporters	1	\$ 2,450.00	\$ 2,450.00
1.24	Electronic Lift for Wheeled Transporters	1	\$ 5,900.00	\$ 5,900.00
1.25	rear viewing camera	1	\$ 3,500.00	\$ 3,500.00
1.20	<b>Wheel Options</b> Use this section to offer wheel options. Number items starting with 1.21, 1.22, etc. Use as many numbers as you need.			
1.21	Compact Non Steerable/Steerable Wheeled transporter 8" Steel Wheels	1	\$ 1,320.00	\$ 1,320.00
1.22	Compact Non Steerable/Steerable Wheeled transporter 10-15" Steel Wheels	1	\$ 1,725.00	\$ 1,725.00
1.23	Compact Non Steerable/Steerable 6" Steel Wheels	1	\$ 1,240.00	\$ 1,240.00
1.24	Non Steerable & Steerable Wheeled transporter 8" steel wheels	1	\$ 862.00	\$ 862.00
1.25	Non Steerable & Steerable Wheeled transporter 10" - 15" " steel wheels	1	\$ 939.00	\$ 939.00
1.26	Non Steerable & Steerable Wheeled transporter Knobby tires 18" to 60"	1	\$ 990.00	\$ 990.00
1.27	Pipe Ranger & Steerable Pipe Ranger pneumatic tires 12" to 15"	1	\$ 1,095.00	\$ 1,095.00
1.30	<b>Camera Options</b> Use this section to offer camera options. Number items starting with 1.31, 1.32, etc. Use as many numbers as you need.			
1.31	OZII Camera in addition to OZIII camera offered in base system	1	\$ 16,900.00	\$ 16,900.00
1.32	OZIII Camera in addition to OZIII camera offered in base system	1	\$ 16,900.00	\$ 16,900.00
1.33	Adapter Tube for OZIII camera	1	\$ 2,380.00	\$ 2,380.00
1.34	built in sonde for cameras	1	\$ 1,250.00	\$ 1,250.00
1.35	laser diode precision measurement system with micrometer for cracks and offsets	1	\$ 7,400.00	\$ 7,400.00
1.36	built in inclinometer for cameras	1	\$ 3,825.00	\$ 3,825.00
1.40	<b>Lighting Options</b> Use this section to offer lighting options. Number items starting with 1.41, 1.42, etc. Use as many numbers as you need.			
1.41	Xenon lighting in camera in lieu of LED Lighting in base system		No Charge	No charge

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<b>1.50</b>	<b><u>Control Consoles</u></b> Use this section to offer control console options. Number items starting with 1.51, 1.52, etc. Use as many numbers as you need.			
1.51	Substitute a Granite XP Data Acquisition System in lieu of Pro Data Titler offered in base system. This software system enables the operator to assign and display observations in the pipe. It generates a real time pipe schematic from manhole, displaying various observations that can be logged from specified footage intervals, or for the entire length of the pipe. The software includes a report writer and can be used with PACP, LACP, or MACP formats. The software produces digital image capture, and MPEG I, II, or IV video formats. The system is capable of exporting to most GIS systems. The software interfaces with Lucidity, Azteca Cityworks, Hansen, and Maximo asset management systems. An optional scoring module is available to establish prioritization of rehabilitation or replacement. Includes computer, software, printer, 19" LED flat panel computer monitor and one day additional training.	1	\$ 12,800.00	\$ 12,800.00
1.52	K2 Summit Truck mounted PCU, CCU, Titler and 19" LCD monitor in lieu of portable K2 PCU offered in base system	1	\$ 3,510.00	\$ 3,510.00
1.53	Wireless controller in lieu of wired controller for K2 portable PCU offered in base system	1	\$ 400.50	\$ 400.50
1.54	Granite XP Engineering Software Module	1	\$ 695.00	\$ 695.00
1.55	Granite XP Inclinator Software Module	1	\$ 1,990.00	\$ 1,990.00
1.56	Granite XP PACP Module	1	\$ 1,280.00	\$ 1,280.00
1.57	Granite XP ESRI Bi-Directional Interface with 2 Days Web Ex Training	1	\$ 9,900.00	\$ 9,900.00
1.58	Granite XP Lateral Software Module	1	\$ 1,900.00	\$ 1,900.00
1.59	Granite XP Office/Enterprise Software Module	1	\$ 4,500.00	\$ 4,500.00
1.60	Granite XP Manhole Assets Software Module	1	\$ 1,900.00	\$ 1,900.00
1.61	Granite XP Wincan Export Software Module	1	\$ 1,900.00	\$ 1,900.00
1.62	Granite XP GPS Software Module	1	\$ 2,400.00	\$ 2,400.00
1.63	Granite XP Computer only - no software	1	\$ 2,900.00	\$ 2,900.00
1.64	Substitute a Granite XP Inspection Lite Data Acquisition System in lieu of Pro Data Titler offered in base system. This software system enables the operator to assign and display observations in the pipe. It generates a real time pipe schematic from manhole, displaying various observations that can be logged from specified footage intervals, or for the entire length of the pipe. The software includes a report writer and can be used with PACP, LACP, or MACP formats. Includes one (1) day additional training. Laptop sold separately.	1	\$ 6,500.00	\$ 6,500.00
1.65	Granite XP Laptop computer only - no software	1	\$ 1,638.00	\$ 1,638.00
<b>1.60</b>	<b><u>Cable and Cable Drum Options</u></b> Use this section to offer cable and cable drum options. Number items starting with 1.61, 1.62, etc. Use as many numbers as you need.			
1.61	Substitute 1000' gold cable in lieu of 1000' platinum cable offered in base system	1	\$ 1,992.60	\$ 1,992.60
1.62	Substitute a K2 portable dolly with auto payout in lieu of standard portable dolly offered in base system - includes 1000' platinum cable	1	\$ 9,900.00	\$ 9,900.00
1.63	Add removeable wheels and collapsible handle to K2 Dolly	1	\$ 2,230.00	\$ 2,230.00
1.64	Truck mounted TV reel with 1000' Gold Cable in lieu of standard portable dolly offered in base system	1	\$ 4,365.00	\$ 4,365.00
1.65	Add additional gold cable to truck mounted TV reel offered in Item 1.64 - 100' increments - maximum 1500' total	1	\$ 4.12 per foot	4.12 per foot
1.66	Add additional platinum cable to wheeled K2 dolly offered in Item 1.62 or truck mounted TV reel offered in Item 1.64 - 100' increments - maximum 1200' total	1	\$ 4.96 per foot	4.96 per foot
1.67	Add auto payout feature to TV reel offered in Item 1.64	1	\$ 2,950.00	\$ 2,950.00
1.68	Add side load swing arm for K2 dolly offered in Item 1.62 for easement work	1	\$ 1,719.00	\$ 1,719.00
1.69	Electric Clutch for standard portable dolly with remote controller	1	\$ 2,215.00	\$ 2,215.00
1.70	Add additional single conductor cable to truck mounted TV reel offered below in Item 1.72 - 500' increments - maximum 2500' total	1	\$ 3.51 per foot	3.51 per foot
1.71	Truck mount with drip pan for K2 portable dolly	1	\$ 1,151.00	\$ 1,151.00
<b>1.70</b>	<b><u>Other Crawler Options</u></b> Use this section to offer crawler options. Number items starting with 1.71, 1.72, etc. Use as many numbers as you need.			
1.71	Mapping Stick with GPS Software Module	1	\$ 8,900.00	\$ 8,900.00
1.72	Substitute Single Conductor Electronics and 1500' Single Conductor Cable for Multi conductor Electronics and Multi Conductor Cable - for Truck Mounted Systems only		\$ 5,487.00	\$ 5,487.00
1.73	Substitute TV truck downhole equipment for portable system downhole equipment offered in base system	1	\$ 680.00	\$ 680.00

Spec #	Description	Qty	Price	Subtotal
1.74	Substitute a Gator Tail manhole cable guide in lieu of Tiger tail model offered in base system	1	\$ 301.50	\$ 301.50
1.75	Lateral Launch System and Mainline TV Inspection System to inspect laterals by launching the camera from the mainline pipe into the lateral - only available on truck mounted systems. Includes wheeled lateral launcher with front mounted Pan & Tilt Zoom camera for 6" - 30" pipe.		\$ 59,000.00	\$ 59,000.00
1.76	Laser System to include software/hardware and 3 days training for 6" - 24" pipe	1	\$ 26,000.00	\$ 26,000.00
1.77	Laser Profiled Add on for 24"-48" Pipe	1	\$ 28,000.00	\$ 28,000.00
1.78	HD Digital Universal Side Scanning Camera System with Digital Processing Software, Reel Upgrade and Strobe Light System	1	\$69,000.00	\$69,000.00
1.79	DUC Ready for future install of HD Digital Universal Side Scanning Camera System	1	\$ 6,500.00	\$ 6,500.00
1.80	Lateral Launch pan & tilt lateral camera upgrade	1	\$ 12,900.00	\$ 12,900.00
1.80	<b>PERFORMANCE OPTIONS</b> Use this section to offer performance & extended warranty options. Number items starting with 1.81, 1.82, etc. Use as many numbers as you need.			
1.81	Pedestal mounted electric crane with controller	1	\$ 3,200.00	\$ 3,200.00
1.82	Bumper Mounted Man Rated Crane with controller	1	\$ 4,800.00	\$ 4,800.00
1.83	SEE - Safe Entry/Exit Bumper System	1	\$ 2,250.00	\$ 2,250.00
1.84	Industrial DVD Recorder in lieu of DVD/VCR	1	\$ 595.00	\$ 595.00
1.85	Dv-SD Touch DVR with MPEG 4 recording, mounting hardware, 16GB Thumb Drive and Integrated Power Supply in lieu of DVD/VCR	1	\$ 995.00	\$ 995.00
1.86	Additional day of training	1	653.00 per day	653.00 per day
1.90	<b>EXTENDED WARRANTY OPTIONS</b> Use this section to offer performance/warranty options, number these items starting with 9.1, 9.2, 9.3, etc. (Specify years, miles or hours extended term covers.)			
1.91	Granite XP One Year Enhanced Support Plan	1	\$ 1,800.00	\$ 1,800.00
1.92	Additional 12 month warranty for a total of 24 months on parts and labor for items manufactured by CUES	1	\$ 1,800.00	\$ 1,800.00
1.20	<b>VENDOR OWNED RENTAL RETURN OR DEMO EQUIPMENT PROGRAM</b> See Solicitation Special Terms and Conditions. <b>DEDUCT</b> cost per Used Hour from the original Contract Price			N/A
2.0	<b>DISCOUNT OFF LIST PRICE FOR RELATED PARTS AND ACCESSORIES</b> (See Special Terms and Conditions)			0%
	<b>Price List Date and Number</b>			N/A
2.1	<b>NEW EQUIPMENT RENTAL PROGRAM</b> If rental programs are available on the new equipment offered, with the option to purchase, list the hourly/weekly/monthly rental rate. Indicate the percent of rental fee paid by the purchaser that will be applied to the purchase price. See Solicitation Special Terms & Conditions.			
	<b>Hourly Rental Rate:</b>		\$	N/A
	<b>Weekly Rental Rate:</b>		\$	N/A
	<b>Monthly Rental Rate:</b>		\$	N/A
	<b>Percent (%) of Rental Fee applied to purchase price:</b>		\$	N/A
2.2	<b>Delivery Starting Point (city, state, zip code)</b>			Orlando, FL 32805
2.3	<b>Price per loaded mile</b>			\$0.52