SEQ # S986-813

August 2013

Email Address:

dgage@macqueeneq.com

Dimension-crawler only (LxHxW)

# STATE OF MINNESOTA PRICING PAGE (Typed Responses Required)

Price quote for: Crawler Inspection Camera System

 Vendor Name:
 MacQueen Equipment, Inc.

 Contact Person:
 Dan Gage

 Street Address:
 595 Aldine Street

 P.O. Box:
 St. Paul MN 55104

 Phone #:
 651.645.5726

 Toll Free #:
 800.832.6417

 Fax #:
 651.645.6668

Spec # Information Requested Answer 1.0 Make & Model **Envirosight SuperVision SAT** Crawler: Number of drive wheels/tracks 8 wheels w/overlapping design Number of drive motor(s) 2 Drive mechanism (chain, belt, gear, etc.) Gear drive Does drive mechanism have a clutch No IP 68 Internal pressure rating Pressurization method CO2 cartridge w/regulator Does crawler maintain pressure if camera is removed Yes On screen pressurization field with audible alarm if pressure falls below Over/under pressure indicator light recommended pressure. Can repressurization be accomplished in the field Yes Quantity, type & size of tracks/wheels included with base package Eight 3.33" diameter rubber wheels Yes Overlapping wheel design to prevent high centering Allen wrench (supplied) Wheel/Track change tool requirement 8 wheel change is 8 minutes Wheel/Track change time requirement Minimum pipe diameter 6"

24" x 5.1" x 4.7"

Type of lighting control

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(Typed Responses Required)

Spec #	(Typed Hesponses Required Information Requested	A
	Overall length with camera attached	26"
	Weight of crawler	44 lb
	Overall weight crawler with camera attached	44 lb
	Material the crawler constructed from	Solid piece stainless steel
	Cable connector type to crawler	Stainless steel bayonet connector that will lock with 2 turns of outer stainless connector. Spring loader pin on crawler body shall lock connector in place. Waterproof with 1000 lb break strength
	Tools required to connect/disconnect crawler from cable	Hand turned
	Number of controls required to operate crawler	One pendant control for all crawler, lights, camera zoom
	Direction crawler can operate (example: forward/neutral/reverse)	Control pendant has all functions for crawler, forward/reverse/right/left. Crawler speed up to 75' per minute
	Is crawler steerable	Yes
	Does crawler have rear vision camera capability	Yes
	Inclinometer standard	No
	Power requirement (watts/amps/voltage)	50 Watts DC
	Is a Sonde device available	Yes in camera head for lateral locating
	Camera:	
	Pan & tilt	Yes
	Pan and tilt control type	Joy stick
	Home position control type	Yes with automatic return
	Pixels & lines of resolution	380,000 pixels w/420HTV lines of resolution
	Zoom (magnification optical & digital)	No
	Lux rating	1 Lux sensitivity
	Construction material	Stainless steel
	Lens type	4mm, f1.2, remote focus
	Lens field of view (VxHxD)	.025" to infinity/68 degree x 90 degree x 100 degree
	Black & white or color	Color
	Lighting type	LED light ring w/optional additional lighting

Dial type w/infinite adjustment

August 2013

### STATE OF MINNESOTA PRICING PAGE

(Typed Responses Required)

Spec #	(Typed Responses Required Information Requested	Answer
	Field replaceable lights	Yes
	Focus (auto & manual)	Auto & manual
	rocus (auto & manuai)	
		Stainless steel waterproof swivel loc-tite style. Locked & unlocked with T handle
	Connection type	tool used for cable connection
	Dimensions (LxHxW)	72mm x 72mm x 72mm
	Camera weight	3.5 il
	Pressurization method	CO2 cartridge, field pressurization capable
	Internal pressure rating	IP 68
	Over/under pressure indicator light	On screen pressurization field with audible alarm if pressure falls below recommended pressure
	Does camera maintain pressure when removed from crawler	Yes
	Will camera connect to cable w/o crawler and be fully functional	No
	Maximum viewing angle for pan	360 degrees
	Maximum viewing angle for tilt	135 degree
	Camera controller have "home" position function type	Yes, one touch button automatic
	Does camera have the ability to view 360 degrees	Yes
	Field replaceable windshield on camera	Yes
	Cable:	
	Cable length	300' with 100' of launch cable
	Cable diameter	.19"
	Break strength	1000 lb
	Single or multi-conductor	Multi-conductor
	Repairable	Yes
	Cable Reel:	
	Motorized (yes/no)	Yes
	Drive type	Motorized utilizing a slip ring design using gold & rhodium housed in an environmentally sealed housing
	Automatic pay-out, or pulled by crawler	Auto pay-out
	Automatically payed-in	Yes with speed & torque controls

Auto level wind system

Cable reel level wind system

August 2013

# STATE OF MINNESOTA PRICING PAGE

### (Typed Responses Required)

Spec # Information Requested	Answer
Drum emergency stop switch	Drum has (red) emergency stop button for the operator.
Resettable counter	Yes
Counter-mechanical or electronic	Electronic
Forward/reverse engagement control type (manual or el	ectronic) Electronic
	Pay out and in is controlled by the speed
Speed control type	of the crawler knob type control on cable drum
Type of torque control	Knob type on cable reel
Overheat sensor	Yes
Cable reel capacity	300
Portable	No (stationary mount)
Dimensions (LxHxW)	29" x 11.8" x 26.5"
Power requirements	2 amps
Central Control Unit:	
Power requirements	4 amps
Circuit protection type	Fuse & circuit breakers
Video in/out	Video BNC connector & RS232 for text and footage data to software
Type of text generator	On screen text & information fields. Includes help directory and will store data for 30 days after the power is turned off.
Keyboard	Yes
Desktop camera control	Yes
Number of video text generators on-screen	7
Video display of footage, time and date	Yes
Warranty	1 Year
	E UNIT PRICE:

#### **AUGUST 2013**

### STATE OF MINNESOTA PRICING PAGE

(Typed Responses Required)

#### **VENDOR NAME**

MacQueen Equipment Inc.

MAKE AND MODEL

Envirosight SAT Lateral Launch

SAT Lateral Launch crawler Pan and Tift camera with standard wheels, Eight 3.33" diameter rubber wheels, F1859 alumants in motorated cable with 100' Launch, Control unit, Pendant controller, Forward looking, Camera Peressurzation kil, lowering tool and manual. Vehicle/Trailer mounted system. Price for Base unit:    1.1	Spec #	Description	Qty		Price	Subt	otal
with 100 Launch, Control unit, Pendant controller, Forward looking Camera	·		.;				
Pressurization kit, lowering tool and manual. Vehicle/Trailer mounted system.   Price							
1.10		· · · · · · · · · · · · · · · · · · ·					
1.1   Crawler Options   Use this section to offer crawler options. Number items starting with 1.11, 1.12, etc.   Use as many numbers as you need.   \$ 40,000.00 \$ - 1.14   Additional SAT Crawler   \$ 40,000.00 \$ - 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.15   \$ 1.272,00   \$ 1.272	1.0	·		\$	121 200 00	\$	_
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Use as many numbers as you need.	1.1	Crawler Options	Ī				
1.11   Additional SAT Crawler			Ī				
1.12   LF2100 receiver locator with hard carrying case and headphones   \$ 3,024.00   \$ .		·	1	ı		1	
1.13   512 Hz external sonde transmitter 10-15' detection   \$ 504.00 \$ - 1.14				_		\$	
1.14					3,024.00		
1.15   512 Hz external sonde transmitter 40-60' detection   \$ 1,723.00		512 Hz external sonde transmitter 10-15' detection		\$	504.00	\$	-
1.20   Wheel Options   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   Large diameter grease wheel (each)   \$ .417.00 \$ .		512 Hz external sonde transmitter 20-30' detection			963.00		
Use this section to offer wheel options. Number items starting with 1.21, 1.22, etc.	1.15	512 Hz external sonde transmitter 40-60' detection		\$	1,723.00		
Use this section to offer wheel options. Number items starting with 1.21, 1.22, etc.	1.20	Wheel Ontions	ī				
Use as many numbers as you need.	0						
1.21   Large diameter grease wheel (each)   \$ 233.42							
1.22   3.33" diameter small grease wheel for RX95 Crawler (each)   \$ 283.42     1.23   4.33" diameter medium grease wheel (each)   \$ 367.00     1.24   3.33" diameter rubber wheel (each)   \$ 370.00     1.25   4.33" diameter super aggressive spike wheel (each)   \$ 370.00     1.26   4.33" diameter super aggressive spike wheel (each)   \$ 333.00     1.27   5.31" diameter super aggressive spike wheel (each)   \$ 255.00     1.28   Large balloon tires for RX Carriage (each)   \$ 404.00   \$ - 440.00     1.29   Wheel bolt kit   \$ 440.00     1.30   Camera Options   Use this section to offer camera options. Number items starting with 1.31, 1.32, etc. Use as many numbers as you need.   \$ 13,500.00   \$ - 440.00     1.31   Additional Pan and Tilt PTP70 Camera   \$ 13,500.00   \$ - 440.00     1.32	1.21			\$	417.00	\$	_
1.23	1.22			-		*	
1.24   3.33" diameter rubber wheel (each)   \$ 95.78	1.23	, ,		_			
1.25 4.33" diameter wider rubber wheel (each) \$ 370.00   1.26 4.33" diameter super aggressive spike wheel (each) \$ 333.00   1.27 5.31" diameter large rubber wheel (each) \$ 255.00   1.28 Large balloon tires for RX Carriage (each) \$ 404.00 \$ - Wheel bolt kit \$ 44.00   1.30 Camera Options 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 Additional Pan and Tilt PTP70 Camera \$ 13,500.00 \$ - 1.32				_			
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		Lateral Module		\$			-

### STATE OF MINNESOTA PRICING PAGE

**AUGUST 2013** 

(Typed Responses Required)

Spec #	Description	Qty	 Price	1	Subtotal
1.59.2	Manhole Module		\$ 1,529.00	\$	-
1.59.3	WinCan Validation Module		\$ 1,019.00	\$	-
1.59.4	WinCan Transfer Module		\$ 2,038.00	\$	-
1.59.5	Report Generator Module		\$ 1,529.00	\$	-
1.59.6	WinCan Project Manager Module		\$ 1,529.00	\$	-
1.59.7	OSD Control Module		\$ 1,019.00	\$	-
1.59.9	MPEG 1/2/4 Compression		\$ 4,077.00	\$	-
1.59.10	DIVX/MPEG 1 Compression		\$ 1,529.00	\$	-
1.59.11	Inclination Module		\$ 2,038.00	\$	-
1.59.12	Parrellel Laser Measurment Module		\$ 2,038.00	\$	-
1.59.13	WinCan 3D Module		\$ 5,097.00	\$	-
1.59.14	Multiple Inspection Module		\$ 1,529.00	\$	-
1.59.15	WinCan Scan Explorer Module		\$ 7,646.00	\$	-
1.59.16	WinCan Laser Scan Module (For Ring and Mulit Pouint Lasers)		\$ 5,097.00	\$	-
1.59.17	WinCan Map Module		\$ 4,077.00	\$	-
1.59.18	WinCan GIS Office		\$ 7,646.00	\$	-
1.59.19	WinCan Pro Clean		\$ 7,646.00	\$	-
1.59.20	WinCan Version Upgrade		\$ 4,077.00	\$	-
1.59.21	WinCan Hansen Integration		\$ 6,626.00	\$	-
1.59.22	WinCan 5 Seat Network License		\$ 12,131.00	\$	-
1.59.23	Rack Mounted Computer		\$ 2,936.00	\$	-
1.59.24	Laptop Computer		\$ 1,835.00	\$	-
1.59.25	TG-09 Endcoder wheel		\$ 2,548.00	\$	-
1.59.26	Vitec Video Card		\$ 2,038.00	\$	-
1.59.23	Two Day on Site Software Training		\$ 3,395.01	\$	-
1.59.24	USB Mobile Capture Card		\$ 1,019.00	\$	-
1.59.25	USB Dazzle Capture Card		\$ 92.00	\$	-
1.59.26	Two Day on Site Software Training		\$ 3,395.01	\$	-
1.59.27	Bronze Infinity Plain Service Agreement		\$ 1,529.00	\$	-
1.60	Cable and Cable Drum Options	Ī			
1.00	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.				
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1.02				Ψ	