

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

Price quote for:

**Crawler Inspection Camera System**

Vendor Name: **Titan Machinery Inc**  
 Contact Person: **Andrew Bethel**  
 Street Address: **6340 County Rd 101 E**  
 P.O. Box:  
 City, State, Zip: **Shakopee, MN 55379**  
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 Email Address: [andy.bethel@titanmachinery.com](mailto:andy.bethel@titanmachinery.com)

Spec #	Information Requested	Answer
1.0	<b>MAKE AND MODEL</b>	RapidView IBAK P00008 PANORAMO® Camera System
	<b><u>CRAWLER</u></b>	
	Number of drive wheels/tracks	4 wheels
	Number of drive motor(s)	1
	Drive mechanism (chain, belt, gear, etc.)	Chain
	Does drive mechanism have a clutch	No
	Internal pressure rating	IP68, 14.0 psi
	Pressurization method	Dry air
	Does crawler maintain pressure if camera is removed	No
	Over/under pressure indicator light	Yes and indicator on main control
	Can repressurization be accomplished in the field	Yes
	Quantity, type & size of tracks/wheels included with base package	1 set of (4) each of 8", 10" and Pneumatic wheels
	Overlapping wheel design to prevent high centering	No
	Wheel/Track change tool requirement	Allen wrench
	Wheel/Track change time requirement	2 minutes
	Minimum pipe diameter	8" diameter
	Dimension-crawler only (LxHxW)	24" x 5.5" x 4"

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Spec #	Information Requested	Answer
	Overall length with camera attached	24"
	Weight of crawler	52 lbs.
	Overall weight crawler with camera attached	52 lbs.
	Material the crawler constructed from	Brass and stainless steel
	Cable connector type to crawler	High strength mechanical locking fiber optic connector
	Tools required to connect/disconnect crawler from cable	No
	Number of controls required to operate crawler	1 (All system functions from one controller)
	Direction crawler can operate (example: forward/neutral/reverse)	forward / reverse
	Is crawler steerable	No
	Does crawler have rear vision camera capability	Yes
	Inclinometer standard	Yes
	Power requirement (watts/amps/voltage)	110VAC
	Is a Sonde device available	Optional
	<b><u>CAMERA</u></b>	
	Pan & tilt	Yes
	Pan and tilt control type	Mouse
	Home position control type	Spacebar
	Pixels & lines of resolution	500 lines of resolution in 360° view, 3000 lines of resolution in unfolded view
	Zoom (magnification optical & digital)	40x Digital
	Lux rating	n/a
	Construction material	Coated aluminum and stainless steel
	Lens type	Shock resistant glass
	Lens field of view (VxHxD)	360°
	Black & white or color	Color
	Lighting type	High intensity Xenon Strobos
	Type of lighting control	Computer controlled
	Field replaceable lights	Yes
	Focus (auto & manual)	n/a
	Connection type	High strength locking camera connector

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Spec #	Information Requested	Answer
	Dimensions (LxHxW)	4" x 2.4" diameter
	Camera weight	n/a
	Pressurization method	Dry air
	Internal pressure rating	IP68, 14.0 psi.
	Over/under pressure indicator light	On controller
	Does camera maintain pressure when removed from crawler	n/a
	Will camera connect to cable w/o crawler and be fully functional	n/a
	Maximum viewing angle for pan	360°
	Maximum viewing angle for tilt	360°
	Does Camera controller have "home" position function type	Yes
	Does camera have the ability to view 360 degrees	Yes
	Field replaceable windshield on camera	Yes
<b><u>CABLE</u></b>		
	Cable length	1640 ft./2000 ft.
	Cable diameter	.425"
	Break strength	2000 lb.
	Single or multi-conductor	Multi
	Repairable	Re-terminate at connector
<b><u>CABLE REEL</u></b>		
	Motorized (yes/no)	Yes
	Drive type	Electric motor, belt
	Automatic pay-out, or pulled by crawler	Automatic
	Automatically payed-in	Yes
	Cable reel level wind system	Automatic
	Drum emergency stop switch	Yes
	Resetable counter	Yes
	Counter-mechanical or electronic	Electronic
	Forward/reverse engagement control type (manual or electronic)	Remote pendant controller (Standard)
	Speed control type	Remote pendant controller (Standard)
	Type of torque control	n/a
	Overheat sensor	Yes

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<b>Spec #</b>	<b>Information Requested</b>	<b>Answer</b>
	Cable reel capacity	1640 ft/2000ft
	Portable	no
	Dimensions (LxHxW)	15" x 23" x 26"
	Power requirements	110VAC
	<b><u>CENTRAL CONTROL UNIT</u></b>	
	Power requirements	110VAC
	Circuit protection type	Fused
	Video in/out	Yes
	Type of text generator	n/a
	Keyboard	QWERTY keyboard
	Desktop camera control	Joystick
	Number of video text generators on-screen	5 pages, 10 keywords, 10 colors, highlight option
	Video display of footage, time and date	Yes
	Warranty	1 year manufacturer's parts and labor
<b>BASE UNIT PRICE:</b>		<b>\$ 241,753.00</b>

AUGUST 2013

VENDOR NAME

Titan Machinery Inc

MAKE AND MODEL

RapidView IBAK P00008 PANORAMO®  
Camera System

Spec #	Description	Qty	Price	Subtotal
1.0	<b>PRICE FOR BASE UNIT:</b>		\$ 241,753.00	\$ -
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	V0000228 Inclinator Unit for T76/86/PANORAMO (requires software)		\$ 3,062.00	\$ -
1.12				\$ -
1.13				\$ -
1.14				\$ -
1.15				\$ -
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	900406690 Small Pneumatic Tires for T76/86/PANORAMO/LISY (Grey)		\$ 1,276.00	\$ -
1.22	904110390 Large Pneumatic Tires for T76/86/PANORAMO/LISY (Black)		\$ 1,309.00	\$ -
1.23	900410391 T76/86 Treaded Wheelset for 8" and up (Brown/Hard)		\$ 1,340.00	\$ -
1.24	900410491 T76/86 Treaded Wheelset for 8" and up (Black/Soft)		\$ 1,276.00	\$ -
1.25	900401691 Granulated Wheel set RAD 100-4 for 6" PVC		\$ 479.00	\$ -
1.26	900401491 Granulated Wheel set RAD120 for 8" PVC		\$ 479.00	\$ -
1.27	900401591 Granulated Wheel set RAD150 for 10" PVC		\$ 670.00	\$ -
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	V4008001 Add PANORAMO SI Manhole Camera System		\$ 87,682.00	\$ -
1.32	V9055001 Add PANORAMO 150 for 6" to 12" pipelines		\$ 98,524.00	\$ -
1.33				\$ -
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				\$ -
1.42				\$ -
1.43				\$ -
1.50	<b>CONTROL CONSOLES:</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				\$ -
1.52				\$ -
1.53				\$ -
1.60	<b>CABLE AND CABLE DRUM OPTIONS:</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	900300130 KUV 3 Top Manhole Deflection Pulley		\$ 1,244.00	\$ -
1.62				\$ -
1.70	<b>OTHER CRAWLER OPTIONS:</b> Use this section to offer crawler options. Number items starting with 1.71, 1.72, etc. Use as many numbers as you need.			

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Spec #	Description	Qty	Price	Subtotal
1.71			\$	-
1.72			\$	-
1.73			\$	-
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			\$	-
1.82			\$	-
1.83			\$	-
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			Price: \$	
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		\$	
2.0	<b>DISCOUNT OFF LIST PRICE FOR RELATED PARTS AND ACCESSORIES</b> (See Special Terms and Conditions)			%
	<b>Price List Date and Number</b>		\$	
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.			
	Hourly Rental Rate:		\$	
	Weekly Rental Rate:		\$	
	Monthly Rental Rate:		\$	
	Percent (%) of Rental Fee applied to purchase price:			%
2.2	<b>Delivery Starting Point (city, state, zip code)</b>		Rochester, Indiana	
2.3	Price per loaded mile		\$1.50	