



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**77800084**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**MICHAEL AUSTIN**  
**304-558-2402**

RFQ COPY  
 TYPE NAME/ADDRESS HERE

**GOLDEN EQUIPMENT CO. INC.**  
 P.O. Box 873  
 Mars, PA 16046

**DIVISION OF HIGHWAYS**  
**CONTRACT ADMINISTRATION DIV**  
**MATERIALS TESTING SECTION**  
**312 MICHIGAN AVENUE**  
**CHARLESTON, WV**  
**25311**

| DATE PRINTED | TERMS OF SALE | SHIP VIA | F.O.B. | FREIGHT TERMS |
|--------------|---------------|----------|--------|---------------|
| 05/01/2008   |               |          |        |               |

BID OPENING DATE: **05/21/2008** BID OPENING TIME **01:30PM**

| LINE  | QUANTITY | UOP | CAT NO | ITEM NUMBER | UNIT PRICE   | AMOUNT       |
|---|----------|-----|--------|-------------|--------------|--------------|
| 0001  | 1        | EA  |        | 625-84      | \$ 53,995.00 | \$ 53,995.00 |
| <p><b>CULVERT INSPECTION CAMERA SYSTEM</b></p> <p>TO PROVIDE CULVERT INSPECTION CAMERA SYSTEM PER THE ATTACHED SPECIFICATIONS</p> <p>QUESTIONS: WRITTEN QUESTIONS MUST BE RECEIVED BY CLOSE OF BUSINESS (5:00 PM EST.) ON WEDNESDAY 05/14/08 NO FURTHER QUESTIONS WILL BE ACCEPTED AFTER THE DATE STATED.</p> <p>SEND YOUR QUESTIONS TO: PURCHASING DIVISION<br/>           ATTENTION MICHAEL AUSTIN<br/>           2019 WASHINGTON ST. E.<br/>           CHARLESTON, WV 25305</p> <p>QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL<br/>           E-MAIL: MICHAEL.D.AUSTIN@WV.GOV<br/>           FAX: 304-558-4115</p> <p>IT IS THE VENDORS RESPONIBITITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND</p> |          |     |        |             |              |              |

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PURCHASING DIVISION  
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: 1-800-242-1494 DATE: 5-21-08

TITLE: V. PRES FEIN: 25-1537261 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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DIVISION OF HIGHWAYS  
 CONTRACT ADMINISTRATION DIV  
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 CHARLESTON, WV  
 25311

|              |               |          |        |               |
|--------------|---------------|----------|--------|---------------|
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| <p>HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;<br/>OR</p> <p>( ) BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A</p> |          |     |          |             |            |        |

|   |           |                                   |  |
|---|-----------|-----------------------------------|--|
| SEE REVERSE SIDE FOR TERMS AND CONDITIONS |           |                                   |  |
| SIGNATURE                                 | TELEPHONE | DATE                              |  |
| TITLE                                     | FEIN      | ADDRESS CHANGES TO BE NOTED ABOVE |  |

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DIVISION OF HIGHWAYS  
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|--|----------|-----|---------|-------------|------------|--------|
| <p>NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE</p> |          |     |         |             |            |        |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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**DIVISION OF HIGHWAYS  
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| LINE   | QUANTITY | UOP | CAT. NO. | ITEM NUMBER | UNIT PRICE | AMOUNT |
|--|----------|-----|----------|-------------|------------|--------|
| <p>TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <u>GOLDEN EQUIPMENT Co, Inc</u></p> <p>DATE: <u>5-21-08</u></p> <p>SIGNED: <u>[Signature]</u> Robert G. Golden Jr.</p> <p>TITLE: <u>V. Pres</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION<br/>         PURCHASING DIVISION<br/>         BUILDING 15<br/>         2019 WASHINGTON STREET, EAST<br/>         CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> |          |     |          |             |            |        |

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|           |           |                                   |
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| SIGNATURE | TELEPHONE | DATE                              |
| TITLE     | FEIN      | ADDRESS CHANGES TO BE NOTED ABOVE |

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**Mars, PA 16046**

**DIVISION OF HIGHWAYS**  
**CONTRACT ADMINISTRATION DIV**  
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BUYER: 33  
 RFQ. NO.: 77800084  
 BID OPENING DATE: 05/21/2008  
 BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

**724-625-3744**

CONTACT PERSON (PLEASE PRINT CLEARLY):

**ROBERT G. Golden JR.**

\*\*\*\*\* THIS IS THE END OF RFQ 77800084 \*\*\*\*\* TOTAL:

**\$53,995.00**

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

|                                 |                                    |                                   |
|---------------------------------|------------------------------------|-----------------------------------|
| SIGNATURE<br><i>[Signature]</i> | TELEPHONE<br><b>1-800-242-1494</b> | DATE<br><b>5-21-08</b>            |
| TITLE<br><b>VP.</b>             | FEIN<br><b>25-1537261</b>          | ADDRESS CHANGES TO BE NOTED ABOVE |

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### Culvert Camera System

System shall be capable of inspecting culverts and pipes from 9 – 60 inches and include the following:

1. color camera with tilt, pan, zoom and focus remotely controlled by the operator and camera output viewed in real time on a video screen by the operator.
2. Recording system to allow review of work at later date and making a copy of inspection available to others. The recorded video shall have at least the same image capability as the real time output.
3. Crawler capable of carrying the camera, travelling over debris usually found in culverts, making turns to navigate around corners in culvert and stopping at operators request to inspect culvert.
4. Control unit to manage the camera and the crawler.
5. A method of indicating the distance the camera and crawler have travelled into a culvert or pipe needs to be included so that location of obstructions or culvert failures can be determined.

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Golden Equipment Co, Inc

Authorized Signature:  Date: 5-21-08

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

**SIGNED BID TO:**

Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130



**Portable Pipeline Television Inspection System**

This sewer television system is delivered complete, ready for operation. The system includes a pan & tilt camera and transporter with light head capacity from 6" to 30" lines. Components can be used with the base unit including a small diameter color camera for pull, push or tractor applications. Other options include tractor systems and mainline lateral launch camera system.

**COMPONENT LIST**

- 1 System Control Unit ("SCU") assembly mounted in a Hardigg-style, ATA airline-rated shipping case. Major built-in components are:**
  - 1 Non-glare 9" color TV monitor, with 3" internal speaker and controls
  - 1 Monitor sun shield
  - 1 Video recorder bypass switch
  - 1 Set of video recorder audio and video jacks
  - 1 Microphone jack
  - 1 Audio recording microphone
  - 1 Camera power selector switch, micro/mainline
  - 1 Light power selector switch, micro/mainline
  - 1 5-position lighthouse selector switch
  - 1 Lighthouse protection system with an auto reset circuit breaker and trip indicator light
  - 1 Lighthouse intensity control knob
  - 1 AC power switch with indicator light
  - 1 Set of individual circuit breakers for AC power input/lighthouse power output/camera power output
  - 1 120V AC power input GFI protected plug with cord
  - 1 120V AC duplex GFI protected outlet
  - 1 Military connector for SCU to reel interconnect cable (prewired for push reel, pull reel, tractor and on-screen footage features)
  - 1 Multi-function system diagnostic test meter with concurrent volt and amp LED readout
  - 1 Storage compartment mounted in shipping case protective cover
  - 1 Expansion slot and keyboard tray position for VD-1000 data display module and keyboard
  
- 1 Aries VD-1000 Video Data Display and Report Writer System with:**
  - 1 Data display control module, panel mounted
  - 1 Alphanumeric full "QWERTY" keyboard for video titling and report data input (must be built in control unit for storage safety)
  - 1 Ink jet printer, parallel port
  
- 1 DVD video recording system including:**
  - 1 Soft-sided protective carrying case
  - 1 Remote control functions include: record, fast forward, pause, frame advance, slow motion, search, stop and rewind
  - 1 Set power and video cabling
  - 5 DVD-recordable media discs
  
- 1 Aries PE2610 "Illumi-Zoom" multi-conductor, pan and tilt radial view, LED-illuminated, zoom, color sewer TV camera, consisting of:**
  - 1 Maintenance-free directional camera LED light system for 6" to 72" pipes and ducts

- 1 Built-in diagnostics system to monitor camera operating conditions
  - 1 Camera storage and transport case
  - 1 Spare parts kit
  - 1 Test cable, components to 12-pin PCU connector
- Camera features include:
- 360° continuous axial rotation
  - 300° pan & tilt rotation
  - 40X zoom (10X optical & 4X digital)
  - Automatic or remote adjustable focus
  - Automatic or remote adjustable iris
  - Automatic home feature with forks at side of camera head
  - Automatic white balance circuitry
  - NTSC color imaging module
  - SMARTEK internal diagnostic system
  - 0.1 Lux low-light STARLITE mode
- 1 SCU camera controller including: joystick for axial rotation and pan and tilt angle; remote focus; remote iris; zoom in/out; diagnostics pushbutton; and home switch

**1 LH245 Light head with interconnect Cable**

**1 Aries TR3200 "Badger" steerable self-propelled transporter for 6" to 30" lines, including:**

- 1 Tractor assembly with continuous duty drive motors
- 1 Set each of 3", 4" and 5" rubber tires for 6"-30" sewer lines
- 1 Set transmission couplings and weighted adjustment bars for operation in 8" to 30" sewer lines
- 1 Hand-held joystick controller with speed and direction controls
- 1 Tractor power supply and control interface box to SCU
- 1 Plywood storage and shipping box with removable cover
- 1 Set maintenance parts
- 1 Large diameter pipe kit with geared side rails and standard 10" diameter rubber tires for operation up to 48" lines

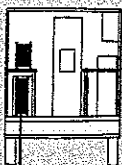
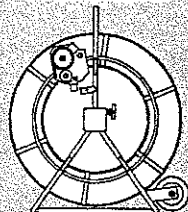
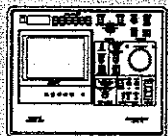
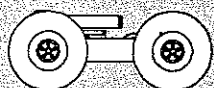
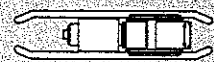
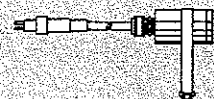
**1 Portable TV cable reel assembly including:**

- 1 Slip ring signal collector assembly, prewired for camera and tractor transporter
- 1 Cable reel drum with brake, mounted on wheeled frame with handle
- 1 Motor drive, 120VAC with variable speed drive and electric clutch
- 1 Footage head with mechanical counter, automatic level wind and footage encoder mechanism

**1 Combination TV transmission and tow cable assembly, .410" diameter, Kevlar™ armored, 2,000 lb. rating, 1,000' multi-conductor, to include:**

- 1 Cable terminal connector, 12-pin molded
- 1 Dummy plug, 12-pin
- 1 Tow/tag line bridle set, multi-conductor cable
- 1 Standard strain relief
- 1 Cable terminal repair kit

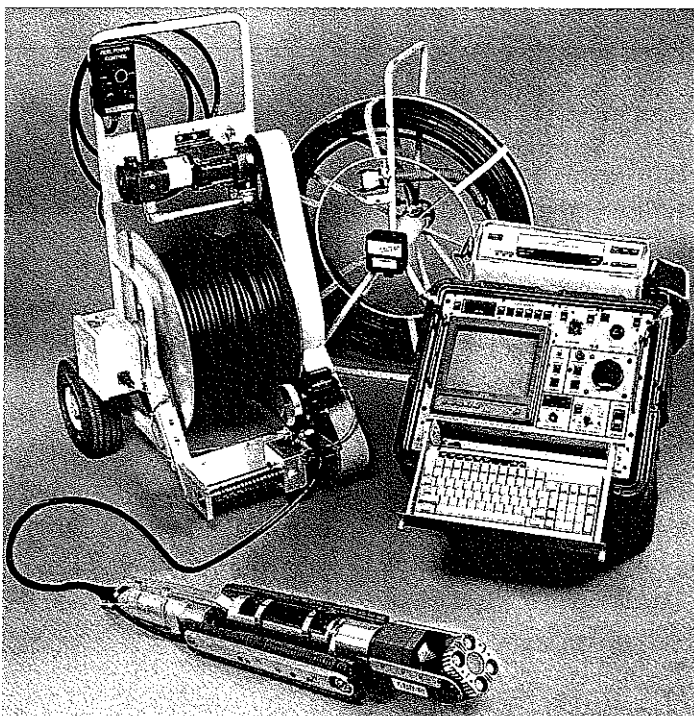
- 1 Cable manhole guide system including:**
  - 1 Manhole top roller assembly
  - 1 Insertion and extractor pole assembly and tractor adapter
  - 1 Tiger tail bottom cable guide
  
- 2 Manuals – operation and maintenance**
- 2 Spare parts catalogs**
- 1 Training DVD – TV Systems Operating Procedures**
- 1 Training DVD– Troubleshooting and Cable Repair Procedures**
- 1 Maintenance tool kit**
- 1 Delivery of system**
- 1 Days of training**
- 1 One year warranty, TV system**



Pipeline Television Inspection, Test and Seal Systems

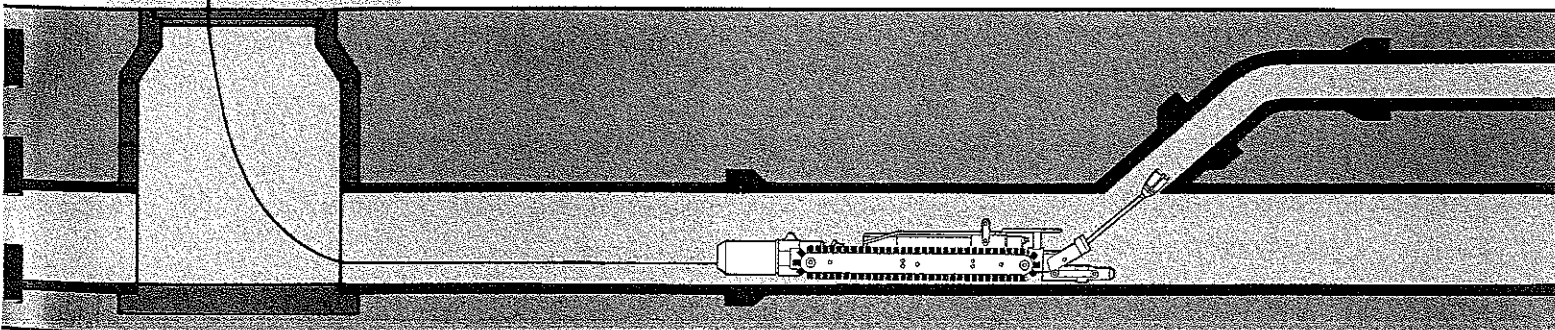
# UNIVERSAL SATURN III

Unsurpassed versatility for pipeline inspection  
For Municipalities, Industry, Contractors



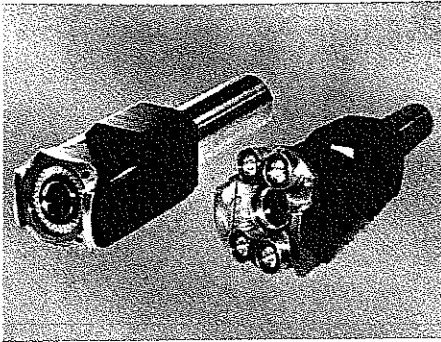
Sewers - Pipes - Ducts - Boiler Systems - Shallow Wells

- Operates Mini, Mainline and Pan-and-Tilt Cameras
- Push or Pull System Flexibility
- Inspects Lines from 3" to 200" in Diameter
- Cable Lengths up to 1000'
- Modular System Control Unit
- Portable or Truck-Mounted

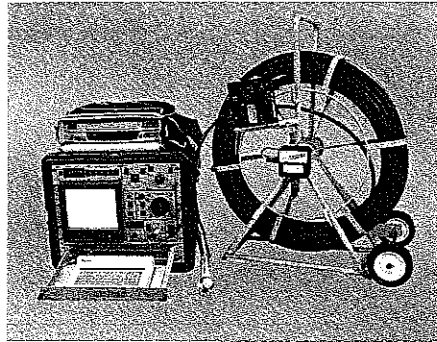


# Saturn III

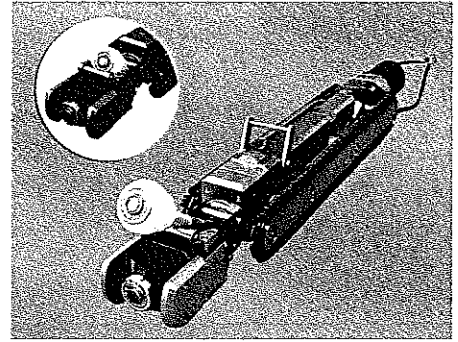
## The Ultimate in Pipe Inspection Versatility



**Aries Illuminator and Zoom Pan & Tilt's** are ultra light sensitive cameras for illuminating pipelines from 6"-40" in diameter. Our cameras offer SMARTEK diagnostics to continually monitor the operating parameters of the camera. Aries has maintained our Pan & Tilt's technical advantage to rotate 360° continuously in a single direction. For added productivity the Aries Illuminator utilizes maintenance free LED Lighting systems.



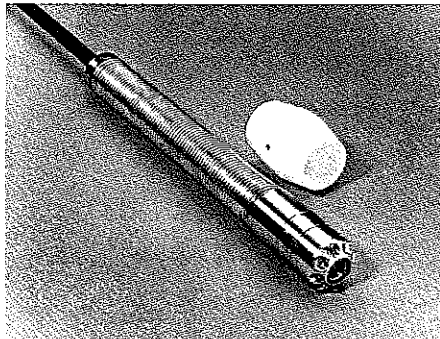
The **Push Reel** includes 200' of cable that is terminated with a flexible spring attachment for camera maneuverability and waterproof electronic connector. An optional mechanical footage counter and encoder provides onscreen footage display. The reel basket has 400' capacity and adjustable drag brake. The slim, wheeled reel assembly easily maneuvers through doors and stairways providing easy access to most locations.



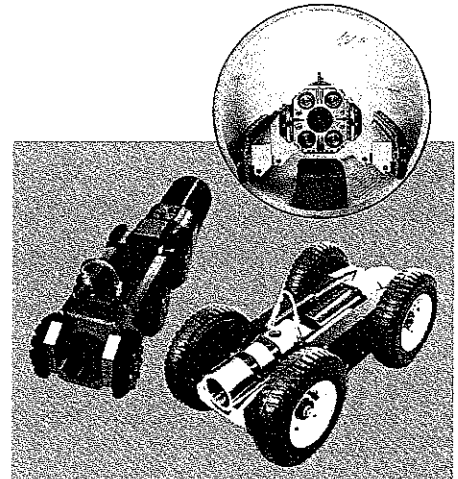
**Aries LETS** inspects lateral lines up to 80' from main line sewer lines. A new Pan & Tilt Camera is provided to assist with mainline inspection and lateral launches. The lateral camera offers "self-uprighting" technology for operator viewing convenience along with an optional Sonde for lateral locating. Aries offers an optional automatic rewind reel to assist the operator in retrieving the system.



Two **Pull Reels**, 500' and 1000' capacities, are available. Each has manual or motorized rewind and autolevel wind. A mechanical footage counter is standard along with onscreen footage and data display system. Each reel is complete with wheels and two hand lift points for loading and unloading.



**Mini Self Leveling Camera** with LED Lighting features rugged, stainless steel construction and a slim, 1.8" diameter, design for lines as small as 3". It provides high-resolution video in both laterals and mainline applications. Its spring neck allows easy access around pipe elbows. Optional auxiliary lighting permits inspection in lines up to 48"



**ARIES Transporters** A full selection of track or wheel driven transporters speed inspection operations in pipes 6" in diameter and larger. The Saturn III System control Unit (SCU) provides ample power for all Aries tractors. Field or factory installed Tractor Controller provides variable speed drive, circuit protection and meters to monitor performance.

# Saturn III

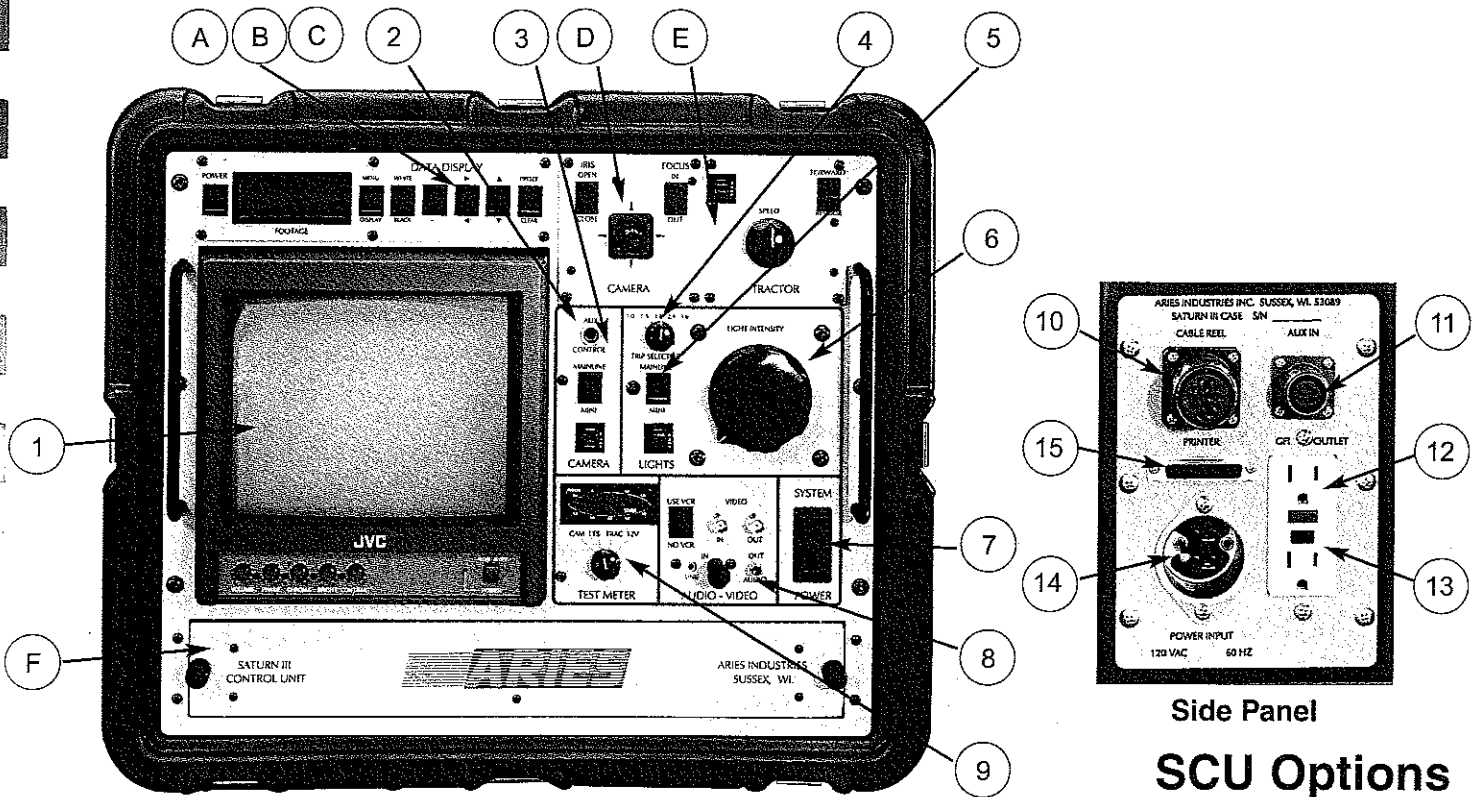
## A Single System Meets All Your Needs

The heart of the Saturn III is the universal System Control Unit (SCU) which can be configured with factory or field installed options to meet each and every pipe inspection challenge. Push, pull, tractor, or skid, the Universal Saturn III SCU provides the power, controls, system diagnostics, and report writing functions you need to successfully complete the job.

Start with a basic unit and then add options as you need to meet ever increasing inspection challenges. Camera operation, lighthead control, tractor speed, data input, video recording, and line reporting are all possible with the Universal Saturn III SCU.

### Auxiliary Power Panel

The Saturn III comes with a full complement of auxiliary power panel connections: camera cable, auxiliary lighting cable, printer report, computer port, Ground Fault Interrupter outlet, and two 110V-AC power outlets for a printer, VCR, etc.



### Standard SCU Features

1. 9" Color monitor
2. Auxiliary pan and tilt camera control port
3. Mini/mainline camera power selector
4. Lighthead circuit breaker selector
5. Mini/mainline lighthead power selector
6. Lighthead power level

7. Main power switch
8. Video/audio jacks
9. System diagnostics meter
10. SCU-to-reel cable connection
11. Auxiliary light power connection
12. 120V AC power outlet
13. GFI protection
14. 120V AC power in
15. RS 232 printer port/laptop computer port

Side Panel

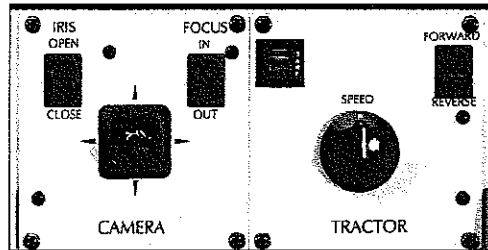
### SCU Options

- A. VD-600 on-screen footage module
- B. VD-1000 video data display, keyboard and report printer
- C. VL-2000 Data logging system with laptop computer
- D. Pan and tilt camera controller
- E. Tractor controller
- F. Tilt storage tray for titler or keyboard
- G. Auxiliary light control box for large line pan and tilt operation (see next page)
- H. Report printer (not shown)

# Saturn III

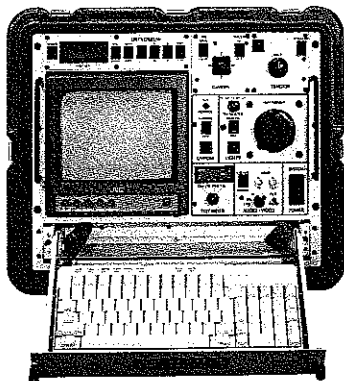
## System Control Unit Options

### Pan and Tilt Camera and Tractor Controllers



The Aries Pan and Tilt Camera and Tractor control modules are field-installable options.

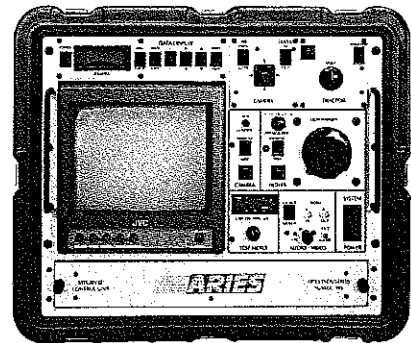
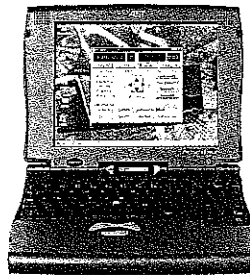
The **VD-1000** Data Display Module provides fault identification and line segment reporting, plus an internal clock/calendar and user-definable defect condition codes. A full size keyboard is included for data entry.



VD-1000 Data Display

The VD-1000 with keyboard allows an operator to enter line defect condition codes and generate line segment reports which can be recorded on videotape, edited, stored or printed. The keyboard stores on a tilt down tray for vertical or horizontal operation.

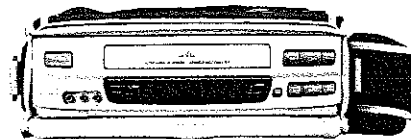
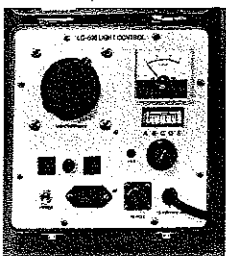
The **VL-2000** Data Display Report Writing and Data Logging System can download data to a 3.5" disk for permanent information storage, office editing and uploading into a municipal geographic information system (GIS).



VC-4000 and WinCan Mobile System

Aries Industries offers two different software suites that function with a laptop computer, WinCan mobile and Aries VC-4000. WinCan is a leader in Pipeline Inspection Software and joins with our proven VC4000 software to meet all possible inspection software needs. WinCan offers a user-friendly platform that interfaces smoothly with most municipal GIS systems. MPEG video compression is available with WinCan and a desktop computer.

**Auxiliary Lighthouse Controller** provides power to a second lighthouse for the pan and tilt camera. The auxiliary lighthouse illuminates large lines up to 120" in diameter while the integral pan and tilt lighting illuminates walls for joint and lateral inspection.



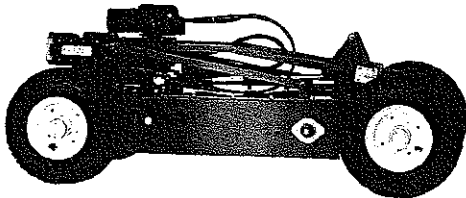
**Video Tape Recorder (VCR)** provides a recorded image and audio message on 1/2" VHS video tape. VCR comes complete with interconnect cable, carrying case with shoulder strap, and cable storage area.



# A complete Family of Products for All Your Pipeline Needs

## Portable Inspection Systems

### Transporters



Titan Side

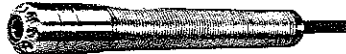


TR-2000



TR-3000

### Cameras



Mini Cam



Eagle Eye



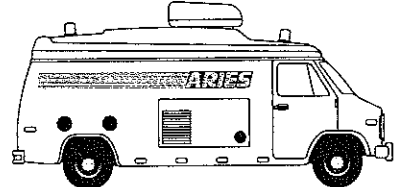
Pan & Tilt



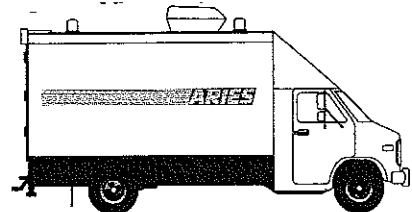
Gas Cam

## Vehicles

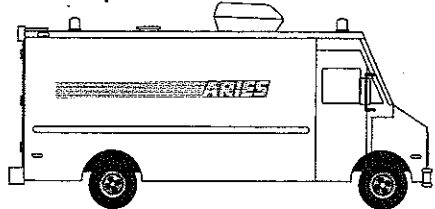
### One-ton Vans



### Hi-cube Vans



### Step Vans



### Service Vans

Aries offers a fully equipped facility for outfitting, converting, and retrofitting service vans for pipeline inspection, grout and cutter operations.

### Authorized Distributor

**GOLDEN EQUIPMENT CO., INC.**  
1-800-242-1494  
[www.goldenequipmentcompany.com](http://www.goldenequipmentcompany.com)

### Unmatched Service and Support

Aries' full line of products include everything you need for successful, efficient pipeline operations. And it's all backed with prompt, reliable service and technical support that truly sets us apart. Aries even services equipment you may have purchased from other manufacturers. With our large parts inventory, and two scheduled pick-ups and deliveries per day, you can count on fast turnaround to keep you up and running and profitable. Call, write or fax us today for further information.

E-mail: [sales@ariesindustries.com](mailto:sales@ariesindustries.com)

Pipeline Television Inspection, Test and Seal Systems

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Fresno, CA 93727  
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Phone: 559-292-5382  
Fax: 559-291-0463

  
Visit our Web Site  
[www.ariesindustries.com](http://www.ariesindustries.com)



# System Configuration Matrix For Saturn III

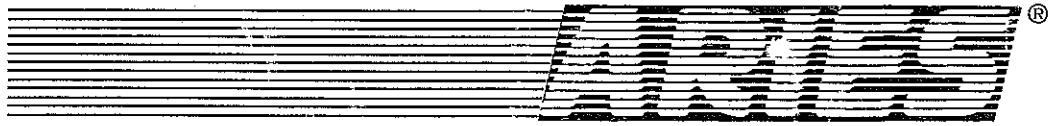
| System Type Specification                                   | Push<br>4.70.30 | Pull<br>4.70.32 | Push & Pull<br>4.70.33 | Pull, Pan & Tilt<br>Tractor<br>4.70.34 |
|---|-----------------|-----------------|------------------------|--|
| <b>SYSTEM CONTROL UNIT</b>                                  |                 |                 |                        |  |
| VCR, Microphone & case                                      | Std.            | Std.            | Std.                   | Std.                                   |
| Onscreen Footage & Titling                                  | Opt.            | Std.            | Std.                   | Std.                                   |
| VD-1000 & Keyboard  | Opt.            | Std.            | Std.                   | Std.                                   |
| VL-2000 & Laptop Computer                                   | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| VC 4000/ Video Compression System with Laptop Computer      | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| Video Compression Software (WinCan) & Laptop Computer       | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| Pan and Tilt Camera Controller                              | Opt.            | Opt.            | Opt.                   | Std.                                   |
| Tractor Controller  | Opt.            | Opt.            | Opt.                   | Std.                                   |
| Auxiliary Lighthead Controller                              | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| <b>CAMERAS</b>  |                 |                 |                        |  |
| Saturn III Color Mini                                       | Std.            | Std.            | Std.                   | Opt.                                   |
| Pan and Tilt Color  | Opt.            | Opt.            | Opt.                   | Std.                                   |
| Eagle Eye Mainline Camera                                   | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| <b>LIGHTHEADS</b>   |                 |                 |                        |  |
| Low Profile 8" - 15" lines                                  | Std.            | Std.            | Std.                   | Opt.                                   |
| High Performance 15" - 72" lines                            | N/A             | Opt.            | Opt.                   | Opt.                                   |
| Triplex 24" - 200"  | N/A             | Opt.            | Opt.                   | Opt.                                   |
| <b>CAMERA SKIDS</b>   |                 |                 |                        |  |
| 3" - 6" push  | Std.            | Opt.            | Std.                   | Opt.                                   |
| 6" - 15" pull   | Opt.            | Std.            | Std.                   | Std.                                   |
| 15" - 30" pull  | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| <b>TV CABLE REELS</b>                                       |                 |                 |                        |  |
| Push 200'   | Std.            | Opt.            | Std.                   | Opt.                                   |
| Mechanical Footage and Encoder                              | Opt.            | Opt.            | Std.                   | Opt.                                   |
| Pull 500'   | Opt.            | Std.            | Std.                   | Std.                                   |
| Pull 1000'  | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| Mechanical Footage and Encoder                              | Opt.            | Std.            | Std.                   | Std.                                   |
| Motorized Rewind  | Opt.            | Std.            | Std.                   | Std.                                   |
| Auto Level Wind   | Opt.            | Std.            | Std.                   | Std.                                   |
| <b>WINCHES</b>  |                 |                 |                        |  |
| Hand Operated   | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| Motorized with Remote Control                               | Opt.            | Opt.            | Opt.                   | Opt.                                   |
| <b>TRANSPORTERS</b>   |                 |                 |                        |  |
| TR2000  | N/A             | Opt.            | Opt.                   | Std.                                   |
| Badger/Mini Badger  | N/A             | Opt.            | Opt.                   | Opt.                                   |
| Titan Series  | N/A             | Opt.            | Opt.                   | Opt.                                   |
| <b>LATERAL EVALUATION TELEVISION SYSTEM ( L. E. T. S. )</b> |                 |                 |                        |  |
| L. E. T. S.   | N/A             | Opt.            | Opt.                   | Opt.                                   |

Std. - Standard

Opt. - Option

N/A - Not Applicable

\* Note: Custom system configurations available upon request



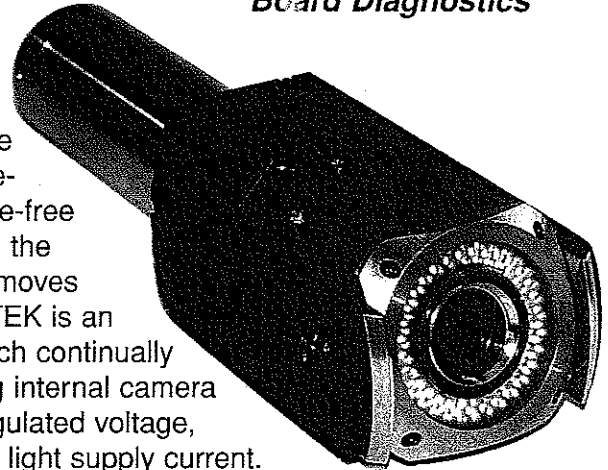
Pipeline Television Inspection, Test and Seal Systems

# ARIES ILLUMINATOR

## L.E.D. Pan & Tilt CCTV Camera

*With SMARTEK On Board Diagnostics*

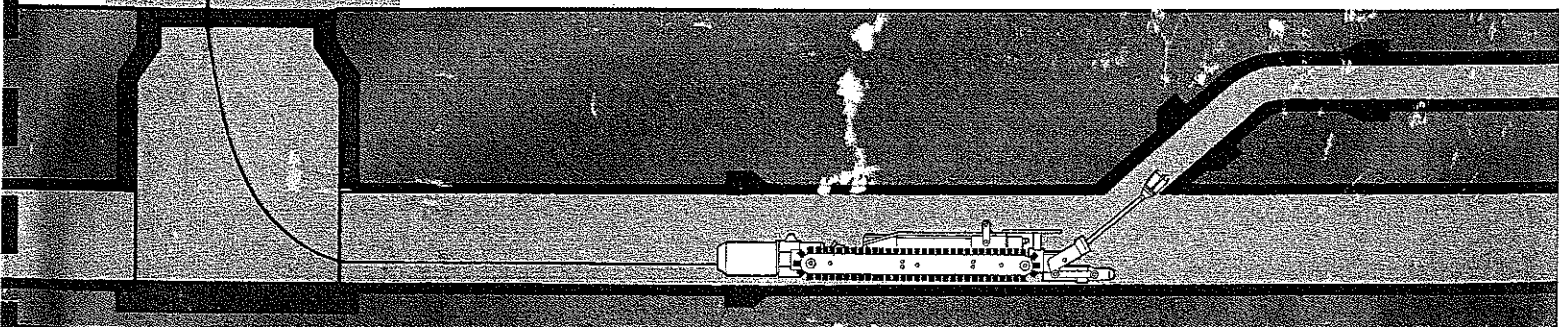
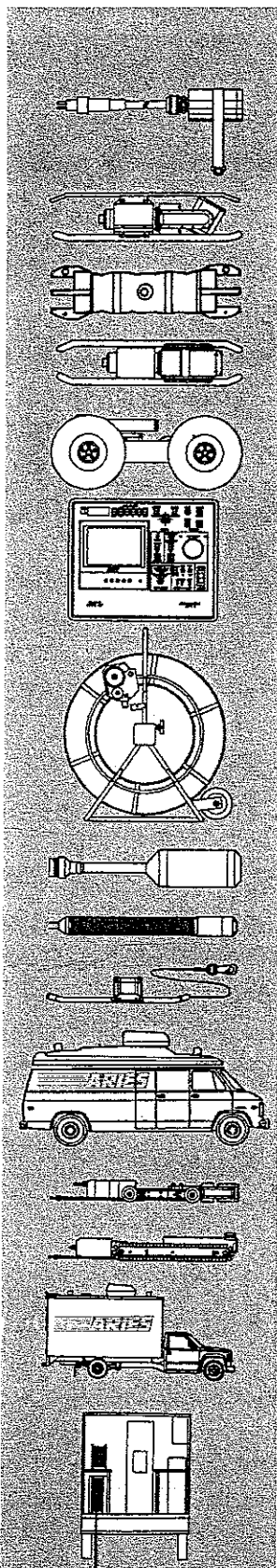
THE ILLUMINATOR is a new generation SMART Pan & Tilt camera from Aries. It incorporates features which improve performance for increased productivity, while reducing downtime and maintenance expense. A maintenance-free directional LED ring surrounds the lens for even illumination that moves with the viewing head. SMARTEK is an internal diagnostic system which continually monitors the camera, including internal camera pressure, humidity, camera regulated voltage, camera head temperature and light supply current. Operators can access the diagnostic system at any time.



### RELIABLE • LOW MAINTENANCE • HIGH QUALITY!

These features put Aries ILLUMINATOR in a classification all of its own:

- Continuous 360° rotation using a maintenance free slip ring which eliminates wire fatigue and speeds up scanning operations.
- Extremely low lux camera module for superior picture quality.
- Fits and fully functions in 6" relined pipes or larger.
- Equipped with an automatic iris with manual over-ride options.
- Improved arm and head design protects seals and head against exterior shock.
- Internally purged and pressurized with dry nitrogen to protect electronics.
- Scratchproof sapphire camera window is highly resistant to breakage.
- On-screen diagnostics package continually monitors camera and notifies operator if water tight seal is compromised.
- Diagnostics package includes EIA color bar signal generator to properly adjust monitor color for best picture quality.
- Starlite Feature for Ultra Light Sensitivity (0.1) Lux.



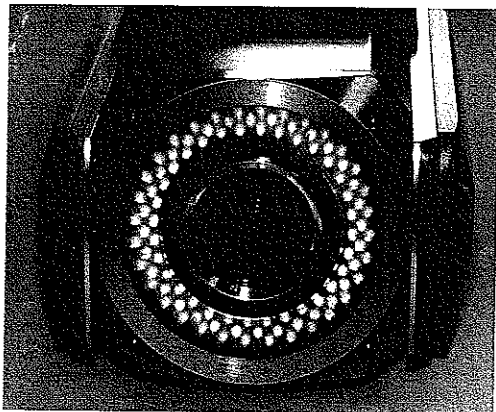
# ILLUMINATOR L. E. D. Pan & Tilt Rotating Head CCTV Camera TECHNICAL DATA

## MECHANICAL DATA

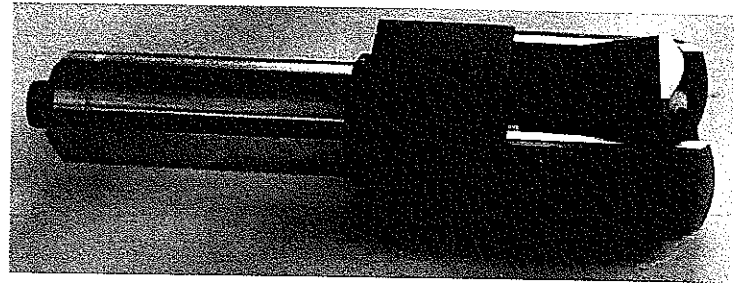
**Rotation:** 360 Degrees Axial continuous  
**Pan & Tilt:** 270 Centerline to centerline  
**Viewing Angle:** 330 Pan & Tilt  
**Spherical Viewing Capabilities:** In excess of 90%  
**Enclosure:** Waterproof, sewer submergence  
**Length:** 13.75"  
**Body Diameter:** 2.375"  
Internally pressurized with Dry Nitrogen  
**Vibration:** 7G (11 Hz to 200 Hz)  
**Shock:** 70G

## OPTICAL DATA

**Focus:** 1/2" to infinity, remote controlled  
**Iris:** Automatic with manual over ride or manual only function  
**Distortion:** None  
Sapphire window



VIEWING ANGLE 330°



## ELECTRONIC DATA

**Sensitivity:** 0.1 Lux with Starlite Feature  
**Picture Elements:** 768 (H) x 494 (V),  
379,392 Total Pixels  
**Resolution:** 480 (H) TV Lines  
**Image Scanning:** 525 lines at 60 Hz (NTSC),  
2:1 interlaced

## LIGHTHEAD

**Position:** Directional LED ring surrounding the lens for even illumination, moves with viewing head  
**Power:** White LED lights capable of lighting a 30" pipe.  
**Sealing:** LED lighthead is hermetically sealed from camera electronics. If light window is damaged, water cannot reach the camera electronics.  
**Optional:** External hi-performance lightheads for large line pan & tilt operations above 30" diameter.

## OPERATING CONDITIONS

**Line Sizes:** Less than 6" to 120" diameter  
**Temperature:** -10 Degrees to +50 Degrees Celsius  
**Moisture:** Up to 100% R.H.  
**SMARTEK Diagnostic System:** Monitors internal camera conditions including camera current, lighthead voltage, internal pressure and humidity levels. SMARTEK includes operating hour meter and electronic serialization records to assist in maintenance.

Golden Equipment Co.  
(800) 242-1494



Pipeline Television Inspection, Test and Seal Systems

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