



## Equipment specification

### Computer

- 3 GHz, Pentium IV with 2 GB Ram
- 2 x 160GB SATA hard drives
- Built in DVD / CD writer
- 1600 x 1200 display
- True color TFT display
- 100 MSPS 14 bit A/D converter

### UT Instrument

- Up to 32 transceiver channels
- Up to 128 channels phased array
- 64 programmable measurement sequences
- Linear amplifier with 105 dB dynamic range
- Pulse echo, Pitch catch, Through transmission, TOFD
- Per channel adjustable spike pulse width
- Scanner mounted for improved signal quality

### Software

- Microsoft Windows 2000 or later OS
- Full wave form storage
- Each channel configurable as Transmitter, Receiver or as Transceiver
- Each sequence configurable as TOFD, Strip chart or Raw data
- Two gates per measurement sequence
- Computer assisted defect evaluation
- Unique weld / evaluation tracking through PlusWeld
- Easy to use operator interface
- Output in PDF format for reports and results

### Umbilical

- Up to 100 meters (300 Ft) without quality loss
- Quick connect at computer and scanner end

### Scanner

- Maximum sustained scanning speed 100 mm/s (4"/s)
- GPS reading per scan (outdoors only)
- Quick change-over features between setups
- 6" pipe to almost flat
- High-low measurements
- Encoder accuracy better than 5 mm over 5000 mm

### Enclosure

- Compact, rugged and mobile

### Power Requirements

- Input: 100-240 VAC 50/60 Hz

### Weight

- Approx: 60 kg (125 Lb)



UT Quality Inc. | A RAE Energy Company  
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### Customer Service:

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more than a tool,  
it's peace of mind



### UT SCAN BUILT ON EXPERIENCE

UT Scan's management team has over 100 combined years of experience in the pipeline inspection industry. Our knowledge of industry needs has resulted in the creation of the complete UT Scan Quality Assurance System.

### UT Scanner Technology

Designed for the pipeline inspection industry, UT Scan delivers unprecedented reliability and accuracy. You can count on UT Scan's industrial grade computer hardware and precise manufacturing even in the most demanding environments.

### Staff & Training

UT Scan provides a completely staffed scanning solution for your project. UT Scan also trains your personnel, if you wish.

### UT Scan's Quality Assurance System

Integrated computer technology seamlessly brings together all aspects of the UT Scan Quality Assurance System.

### UT SCAN'S QUALITY ASSURANCE SYSTEM

From Inspection Design through Inspection Procedures, to Final Reports and Inspection Data Turnover, UT Scan's Quality Assurance System provides the information you need, when you need it. UT Scan's Quality Assurance System delivers it all, for your peace of mind.

#### Inspection Plan:

- Automated design and fabrication of reference block
- Transducer selection
- System set-up

#### Inspection Procedures:

- Built-in Inspection Protocol
- Computer controlled scanner head
- Automatically records weld number, GPS location, time and date
- "Watchdog" alerts operator when system checks are needed

#### Inspection Record:

- Daily Inspection Reports
- Defect Trending Reports
- Dynamic Repair Reports
- Inspection Parameter Tracking

#### Inspection Data Turnover

- Inspection Data supplied in digital form with an easy-to-use Lookup Registry
- Final Reports organized in a Project Binder



**Daily Weld Inspection Report**  
Test Crew

Project Order Number: 1  
Specification: API STANDARD 1104 1990 EDITION

Project Name: Qualification Demo  
Client: XXXXXXX  
Pipeline Owner: UT Technology Inc.  
Prime Contractor: UT Quality Inc.

Inspection Contractor: UT Quality Inc.

DEFECT ASSESSMENT	LOCATION (feet)	Length	Depth	Height
UT 2011		14	2.93	2.90
Label	Weld Side	Start	End	
	UpStream	82	96	14
	UpStream	94	108	14

DEFECT CLASSIFICATION: Inspect. Result: Repair

DEFECT CLASSIFICATION: Inspect. Result: Repair

Project Name: Qualification Demo  
Client: XXXXXXX  
Pipeline Owner: UT Technology Inc.  
Prime Contractor: UT Quality Inc.  
Project Location: [REDACTED]

Weld Number

Demo-006
Demo-007
Demo-008
Demo-009
Demo-010
Demo-011
Demo-012
Demo-013
Demo-014
Demo-015
TOTALS: