

THE #1 BRAND OF READOUT SYSTEMS AROUND THE WORLD

Designed with an easy-to-view, 9-inch CRT, a 3-D color keypad and built-in reference tables, the ACU-RITE® VRO 300T is equipped to maximize your productivity for any turning application.

Features

This operator-friendly readout system reduces setup time and increases throughput with an application-specific feature set that includes:

- 99 Tool Offsets for easy compensation of different tool sizes
- Lock Axis feature, used in conjunction with tool offsetting, lets you establish tool offsets with the tool under load, resulting in reduced tool deflection
- Instant radius/diameter conversion reduces math errors and allows you to machine to print dimensions
- Vectoring feature allows you to compensate for angle offsets when threading or tapering
- Position-Trac™, a unique feature that lets you easily, quickly and accurately reestablish workpiece zero after power loss
- Programming
- Teach Position
- Centralized 1-axis to 6-axes display
- Preset and zero reset
- Graphic near-zero warning
- Instant inch/mm conversion
- 99-segment linear error compensation



RETURN ON INVESTMENT

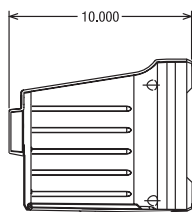
$$\text{Average Payback Time} = \frac{I}{(A \times B \times C)} = \frac{\$2734}{(50 \times 8 \times .57)}$$

Where:

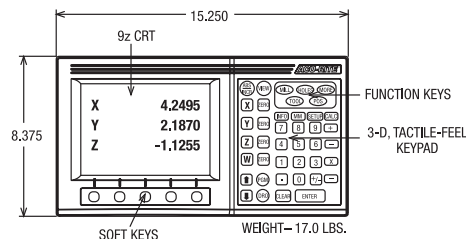
- I = dollars invested
- A = machine revenue in \$/hour
- B = hours per day worked
- C = percentage increase in productivity

Calculation based upon an 8" x 40" engine lathe with 5µm (.0002") resolution cross slide and 10µm (.0005") resolution longitudinal

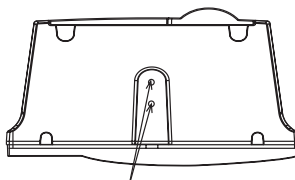
Average Payback 12 days



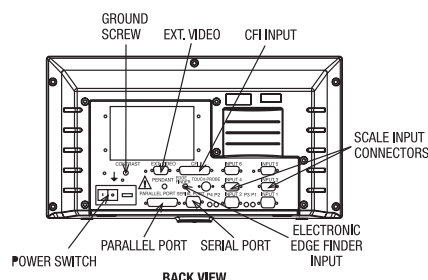
SIDE VIEW



FRONT VIEW



BOTTOM VIEW



BACK VIEW



TECHNICAL SPECIFICATIONS

FLEXIBILITY/REDUCED SETUP

	VRO 300T
Shrinkage/Expansion Multiplier (Scale)	✓
Position-Trac™	✓
Battery Backup	
Recall Function	
Home Reference	✓
Electronic Edge Finder Input	✓
Radius/Diameter Conversion	✓
Lock Axis	✓
Automatic Scale Resolution Detection	✓
Number of Axes	1 - 6
Number of Display Resolutions	Multiple
Absolute/Incremental Display	✓
Inch/mm Conversion	✓

INCREASED PRODUCTIVITY

	VRO 300T
Tool Offsets	99
Taper Calculator	✓
Vectoring	✓
Programming	✓
Teach Position	✓
Preset	✓
Reference Preset	✓
Zero Reset	✓
Near-zero Warning	✓ (graphic)

RELIABILITY

	VRO 300T
Construction	Die-cast Metal
Weight	17.0 lbs.

EASE OF USE

	VRO 300T
Key Legends	Words & Symbols
Keypad Technology	Sealed 3-D Tactile Feel
Display Technology	9" CRT
Conversational Message Prompts	✓

ACCURACY AND

WORKPIECE QUALITY

	VRO 300T
Linear Error Compensation	99 Segment with Auto Calc.
Speed/Feed Rate Display	✓
Tables (Thread Sizes, Surface Speeds, etc.)	✓

MISCELLANEOUS

	VRO 300T
RS-232 Interface	✓
Control Function Interface (CFI)	Optional
Switchable Count Direction	✓
Self Diagnostics	✓
Job Clock	✓

NOTE: Features and specifications are subject to change without notice and/or obligation. Your ACU-RITE representative is your best source for up-to-date information.

ACU-RITE IS AN
ISO 9001
CERTIFIED
MANUFACTURER



ACU-RITE®

READOUT SYSTEMS • CONTROL SYSTEMS • PRECISION GLASS SCALES

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Made in USA

All **ACU-RITE®** products are designed and manufactured in ACU-RITE's ISO 9001 certified facility. They are designed to UL/CSA/CE specifications and are backed by a comprehensive 3-year warranty.

SERVICE & SUPPORT

ACU-RITE maintains a strong worldwide authorized distribution network of fully trained and qualified personnel to provide quality sales and service support. ACU-RITE's authorized distribution network is readily available to provide prompt delivery, thorough product training and skilled technical service.

ADDITIONAL PRODUCTS

ACU-RITE offers a complete line of readout systems for other applications, including milling, grinding and EDMing. In addition, ACU-RITE also manufactures control systems. Contact ACU-RITE or your local representative for more information.



ACU-RITE'S GLASS SCALE TECHNOLOGY DEFINES PRECISION POSITIONING

- With more than one million scales in use today, ACU-RITE® precision glass scales are proven to withstand a variety of harsh conditions found in machine shop environments.
- ACU-RITE's precision glass scales resist changes in size, shape or density due to temperature and humidity variations. This stability provides exceptional accuracy down to $\pm 1.5\mu\text{m}$ (.00006"), resulting in tighter workpiece tolerances.
- ACU-RITE scales are available in travel lengths from 1" - 773" and in resolutions from $0.5\mu\text{m}$ (.00002") to $10\mu\text{m}$ (.0005").

