

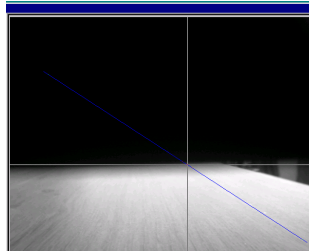
# CANTY

PROCESS TECHNOLOGY

## Level Software

### The Vector NT<sup>®</sup> System – Accuracy, Reliability You Can Depend On

- ◆ Level System is powered by a Microsoft Windows NT<sup>®</sup> based image analysis system
- ◆ Analyzes real-time video of your process using a Cauty Vision Camera System
- ◆ Standard video format – can be recorded on any VCR or saved to disk. Digital video options.
- ◆ Industrial microprocessor
- ◆ Multiple software process control packages
- ◆ 8 Channel 4-20 mA output standard
- ◆ Up to four video inputs standard
- ◆ Ethernet network interface standard
- ◆ Modem for factory support, file -sharing standard



### Level Edge Track Analysis

- ◆ Provides numeric level from a processed image
- ◆ Ability to view & control processes
- ◆ Multiple zone read-out for each and every camera
- ◆ Agitated reactor control
- ◆ Level track range covers camera view
- ◆ All data is available in EXCEL spreadsheet format
- ◆ Spreadsheet template provided with level software
- ◆ Template macro provides link to latest measurement data
- ◆ Custom analysis using spreadsheet formulas

```
Scan started at Mon, Mar 06 14:21:58 2000
Time(h:m:s.ms) Zone Value (Units)
14:21:58.224 78.612
14:22:0.932 79.612
14:22:10.942 79.612
14:22:16.931 79.612
End of scan

Scan started at Mon, Mar 06 14:31:12 2000
Time(h:m:s.ms) Zone Value (Units)
14:31:13.42 78.476
14:31:18.887 78.222
14:31:23.886 77.111
14:31:28.889 74.222
End of scan

Scan started at Mon, Mar 06 14:34:01 2000
Time(h:m:s.ms) Zone Value (Units)
14:34:1.925 75.476
14:34:5.997 75.476
14:34:9.88 75.476
14:34:13.23 75.476
14:34:16.8 75
```

### Data Analysis

- ◆ Level Intensity Zone Read-out
  - Average Level
  - Alarm Conditions
- ◆ Easily customized by user for virtually any custom function
  - Generate EXCEL formulas
  - Output function to 4-20mA signal for process control

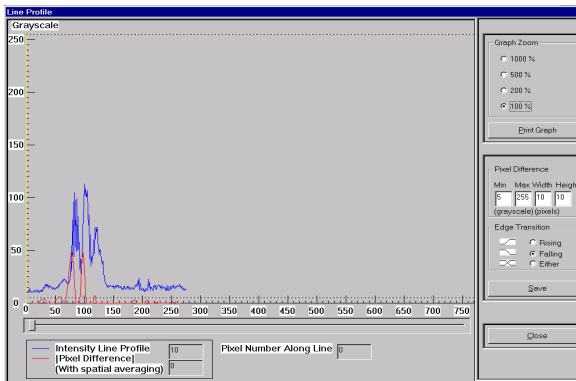
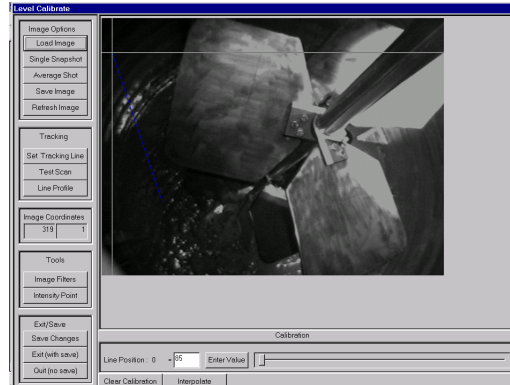
Time of Scan	Zones	Level	Inten	Val	Sum	Total	Test mA	Lev	Zone	User	Def	Amount	User Lev	Call User	Off
15:00:13	1	42.3280	67.00	840.4230	0	51.61	50					50.203	1000.00		
3/6/00 3:00 PM	2	75.4760	67.00	53.3886	10	-6	210					user int calibrate #			
	3	43.3330	-1.00		30	-6	220					57.800	1000.00		
	4	#N/A	21.00	Sum Inten		50	-6	230							
	5	#N/A	67.00	289.0000	70	-6	240					Calib. Value Sent 4.20			
Update Per.	6	#N/A	67.00	Ave. Inten	80	-6	250					1000.000			
	7	51.6100	#N/A	57.8000	90		260								
	8	43.3330	#N/A		100		270								
Output Label	9	43.3330	#N/A	Sum Lev			280								
Cautyvision	10	51.6100	#N/A	351.4230			290								
	11	#N/A	#N/A	Ave. Level			300								
	12	#N/A	#N/A	50.2033			310								
	13	#N/A	#N/A												
	14	#N/A	#N/A	No Level Ave. read-100											
	15	#N/A	#N/A	50.2032571			100								
	16	#N/A	#N/A												
	17	#N/A	#N/A												
	18	#N/A	#N/A	No Intensity Ave. read-100											
	19	#N/A	#N/A	57.8			100								
	20	#N/A	#N/A												
	21	#N/A	#N/A	No Level Ave. read-0											
	22	#N/A	#N/A	50.2032571			0								
	23	#N/A	#N/A	No Intensity Ave. read-0											
	24	#N/A	#N/A	57.8			0								

### Data Archive

- ◆ All data may be stored as archive in electronic format
- ◆ Measurement data may be shared by computer network for remote analysis
- ◆ Images may be viewed or printed locally or remotely across the network

## Easy To Use, Easy To Calibrate

Step 1) The Calibration dialog with the process image allows the user to configure the software to real world physical values. The selected track line placed on the video image supplies output reading during run time. The track line is continuously searched for the proper edge.



Step 2) Setup Configuration is more easily accomplished through the Line profile submenu. The dialog includes image analysis tools that display the current line track, in a graphical image and several controls. This is where the best pixel difference and edge transition can be determined.

Step 3) During run time the image is analyzed by the software, and each zone within the image is digitally mapped and analyzed. The zone number with a calibrated level measurement can be logged into an EXCEL spreadsheet.

## VISUAL VERIFICATION

Visual verification truly sets Canty apart from all other systems. There is no guessing with a Canty Level System – you will be able to visually verify your level track for unmatched accuracy and repeatability.

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