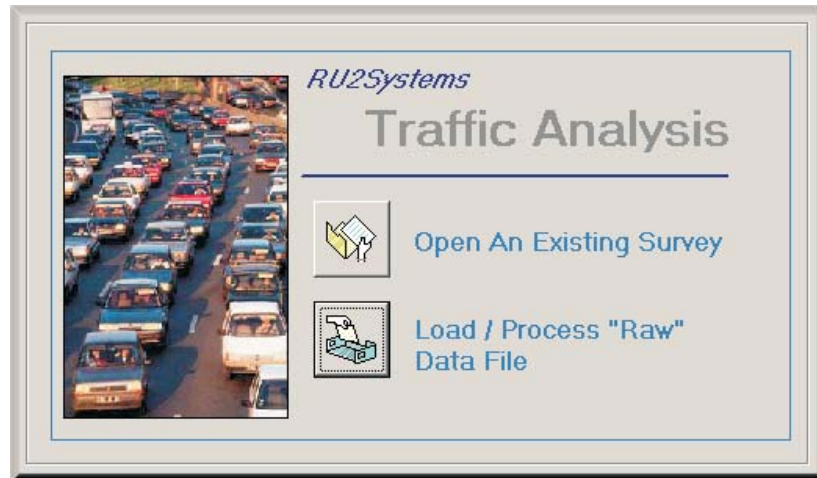




# RU2 Systems, Inc.

Radar Speed Display Signs Manufacturing & Sales

## RU2 Traffic Count Data Acquisition Systems & Software



RU2 Systems data collection platform uses non-contact technology so that deployment of pneumatic tubing is not required. The acquisition package utilizes the streaming data acquired from the radar gun. Advanced proprietary algorithms filters and analyzes the radar data stream to determine what is and is not a discrete target. Each oncoming vehicle's speed is recorded with a time/date stamp. This methodology provides moderate to excellent accuracy somewhat dependent on environmental variables as all single-gun systems are. Its best application is for determining peak load times and violation concentrations for complaint verification and scheduling deployment of traffic enforcement officers.

The collected data is saved on a Secure Data (SD) card and can be downloaded to any\* computer with the provided card reader. The data can then be analyzed by RU2's Traffic Count Software package included with the system or software capable of accepting a comma delimited ASCII text file, such as Microsoft® Excel. Tabulated reports and charts include Survey Summary, Vehicle Count, Speed, and Time/date, 85th Percentile, 15 Minute, 1 Hour, Daily and Weekly analysis, etc.

\*Windows 2000 or newer

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DATA COLLECTION



# RU2 Traffic Count

**Process Raw Data To Database**

Process Raw Data | Modify Header | Filter Raw Data | View Raw Data

Colored fields must be filled in before field data can be imported.

Survey Start Date: 10/03/2003 | Survey Start Time: 09:37 | Regional Adjustment Factor: [ ]  
 Survey End Date: 10/03/2003 | Survey End Time: 19:49  
 Batch Number: 100320-A | Trailer ID: [A] | [0]

Radar Mode Setting: MPH | Zone: Residential | Posted Speed Limit: 40  
 Survey Location: The Pointe  
 Direction of Travel: North | Weather Condition: Partly Cloudy

Filter: Range: 10 to 100

Buttons: Modify Header, Process Radar Data to The Database>>, Cancel

**Familiar Windows tabbed interface makes Survey Set-Up easy:**  
 Opportunity to define Variable Display Scheme (upper/lower limits and increment), Reporting Officer, Start Date/Time, End Date/Time, Conditions, Zone Profile, Location, Direction etc.

**85th Percentile Graph:** (below)  
 Green bars indicate vehicles traveling in the pace, the red line appears at 85th percentile, and above and below the pace in appears light blue.

**RU2 Systems - Traffic Analysis**

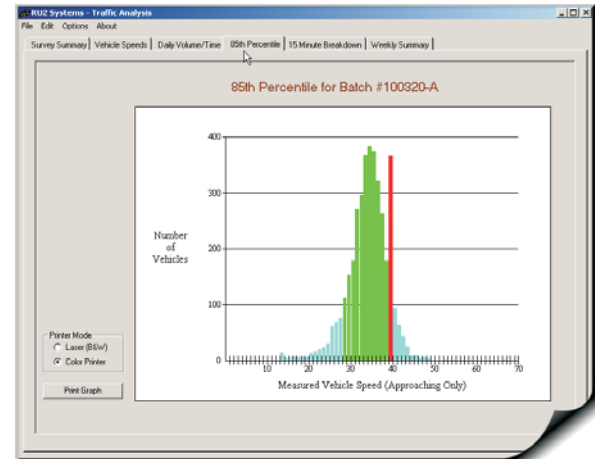
Survey Summary | Vehicle Speeds | Daily Volume/Time | 85th Percentile | 15 Minute Breakdown | Weekly Summary

Time AM	App	Hour Total	Time PM	App	Hour Total
00:00-00:15	*		12:00-12:15		115
00:15-00:30	*		12:15-12:30		139
00:30-00:45	*		12:30-12:45		116
00:45-01:00	*		12:45-1:00		111
01:00-01:15	*		1:00-1:15		82
01:15-01:30	*		1:15-1:30		30
01:30-01:45	*		1:30-1:45		68
01:45-02:00	*		1:45-2:00		95
02:00-02:15	*		2:00-2:15		54
02:15-02:30	*		2:15-2:30		50
02:30-02:45	*		2:30-2:45		104
02:45-03:00	*		2:45-3:00		395
03:00-03:15	*		3:00-3:15		84
03:15-03:30	*		3:15-3:30		71
03:30-03:45	*		3:30-3:45		54
03:45-04:00	*		3:45-4:00		65
04:00-04:15	*		4:00-4:15		83
04:15-04:30	*		4:15-4:30		95
04:30-04:45	*		4:30-4:45		97
04:45-05:00	*		4:45-5:00		369
05:00-05:15	*		5:00-5:15		101
05:15-05:30	*		5:15-5:30		33
05:30-05:45	*		5:30-5:45		112
05:45-06:00	*		5:45-6:00		402
06:00-06:15	*		6:00-6:15		86
06:15-06:30	*		6:15-6:30		63
06:30-06:45	*		6:30-6:45		73
06:45-07:00	*		6:45-7:00		310
07:00-07:15	*		7:00-7:15		75

AM Analysis:  
 AM Total = 701  
 Peak Hour = 11:00-12:00  
 Peak Flow = 345/Av  
 Peak % of AM = 44.17%  
 Peak % to 24 Hr = 3.48%

PM Analysis:  
 PM Total = 2800  
 Peak Hour = 12:00-13:00  
 Peak Flow = 481/Av  
 Peak % of PM = 16.82%  
 Peak % to 24 Hr = 13.21%

Buttons: Print Graph



## Complete Reporting Capabilities

- 1) Survey Summary
  - a. Variable Display Scheme
  - b. Total Surveyed
  - c. Incremental Speed Grid (Speed, Volume, % of Survey)
  - d. Speed Statistics Summary
    - I. Posted Limit
    - II. At/Under Limit Qty. / %
    - III. Over Limit Qty. / %
    - IV. Average Speed
    - V. 85<sup>th</sup> Percentile
    - VI. Maximum Speed
  - e. 10 MPH Pace
    - I. Pace Range
    - II. Number in Pace
    - III. % in Pace
  - f. Number Exceeding Limit (+ 10, +20, +30..., Number & %)
- 2) Vehicle Speeds Graph
- 3) Daily Volume/Time Graph
- 4) 85<sup>th</sup> Percentile Graph
- 5) 15 Minute Breakdown
  - a. AM/PM Analysis
    - I. Total
    - II. Peak Hour
    - III. Peak Flow
    - IV. Peak % of AM
    - V. Peak % to 24 Hr
- 6) Weekly Summary 4 Week Limit
- 7) Time vs. Speed
  - a. Hourly numeric breakdown
- 8) Comparative Survey Analysis
  - a. Virtual Week
  - b. Dynamic/Survey Week
  - c. Comparative Surveys
  - d. Selective Time View (Time Slice)
- 9) Estimated Revenue Calculator
  - a. Client defined fine schedule x Efficiency over Survey Results

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