



LS700™

PORTABLE WIM SYSTEM

ISO 9001
Registered

Mobile Weigh-In-Motion System Gets You Operational Within Minutes.

Intercomp's Weigh-in-Motion software works with the LS700 Low Profile Weigh Pads. It is intended for low speed weighing and can be used for both static and dynamic weighing. The system will display the current weight when it is in the static weighing mode. When weighing dynamically, the system automatically starts the digital weighing algorithm and processes the data quickly to determine the most exact information.

- ***Static & Dynamic Applications***
- ***Quick & Easy Setup***
- ***Low Profile Weigh Pads***
- ***Automatic Vehicle Identification***
- ***Multiple Site Data Collection***
- ***Self-Calibrating System***
- ***Overload & Overspeed Reports***
- ***Law Enforcement & Fleet Management Software***
- ***Screening for Overloaded Vehicles***
- ***Full Statistical Analysis of Vehicle Types & Classifications***
- ***Stoplight & Traffic Control***
- ***Calculates Center of Balance***

For all your weighing needs, look to Intercomp.

Intercomp®
advanced weighing technology . . . by any measure

Flexible Data Storage & Retrieval System



When weighing dynamically, the Weigh-in-Motion software starts taking samples and saves them to be analyzed after the weighing period has expired. This is a variable, set long enough to weigh a large multi-axle vehicle. The software then analyzes the data collected and determines the weight of each axle and the total weight of the vehicle among other statistics. When the weighing is completed, the data is shown, and a graph is displayed to indicate the number of axles weighed, axle spacing, velocity and list of overloaded axles or axle groups.

Depending on your needs, you have three options for storing and exporting data.

- 1 **USE THE RESULTS WINDOW ON THE MAIN FORM ONLY.** You can save this data to individual text files or print it out.
- 2 **USE A DELIMITED TEXT FILE.** This file will be filled with the same results that you see in the results window, but is easy to import into other programs such as Excel® or Word®. These files can also be used with non MS Access® database systems.
- 3 **USE THE SUPPLIED MS ACCESS® DATABASE FILE.** Again, the same data is stored in a table within this file, and can be manipulated as desired.

You can use any or all of these options at the same time. These files can be stored locally on the Weigh-in-Motion computer or across a network, allowing realtime data sharing with the results. When weighing dynamically, the system is fully automatic. The Weigh-in-Motion CPU starts collecting and processing the weight applied to the weigh pads, and the data is stored automatically when the weighing is finished.

WIM Weigh Screen

The screenshot shows the 'LS700 - Dynamic Weigh Mode' software interface. It includes a menu bar (File, View, Reports, Help), a status bar (Standard: See 02483, Location: Intercom, Current User: James Winkler, Intercom Company), and a clock (Time: 11:57:11 AM, Date: 2-25-2003, Enter: Lbs., MPH).

Vehicle Information:

Plate Number: AGC113 Plate State: Minnesota - MN Axles: 5
 Owner/Driver: John Doe
 Comments:

Vehicle Weigh Results:

Axle No.	Velocity	Weight
1	1.386	1480
2	2.843	2200
3	3.315	1870
4	2.542	1860
5	2.835	1150

Gross Weight: 77,100

Vehicle Classification: FHWA Class: 4 - 2 Axle Single Unit Trucks

Weigh Test Results:

Intercom Company
 Minneapolis, MN 55447
 1-800-325-3306
 www.intercomco.com
 8/20/2002 3:39:50 PM

AXLE WEIGHTS:

Axle 1 1428 LBS
 Axle 2 2200 LBS
 Axle 3 1875 LBS
 Axle 4 1862 LBS
 Axle 5 1150 LBS

OVERWEIGHTS:

FAILED: Steering Axle Test
 LIMIT: 1200 LBS
 2200 LBS. (16%) OVER

FAILED: Single Axle Test
 LIMIT: 2000 LBS
 Axle 2 2200 LBS. (10%) OVER

FAILED: Tandem Axle Test
 LIMIT: 3400 LBS
 Axle 3-4 4750 LBS. (28%) OVER

Driver Signal:

Red light (on), Green light (off)

Buttons: Print Ticket, Save Weigh Data, Run Weigh Tests, Manual Entry, Clear Screen, Exit Software

LS700 Mode: Dynamic (selected), Static

System Status: Ready For Next Vehicle Weighment

System Requirements

WIM Session Setup Screen

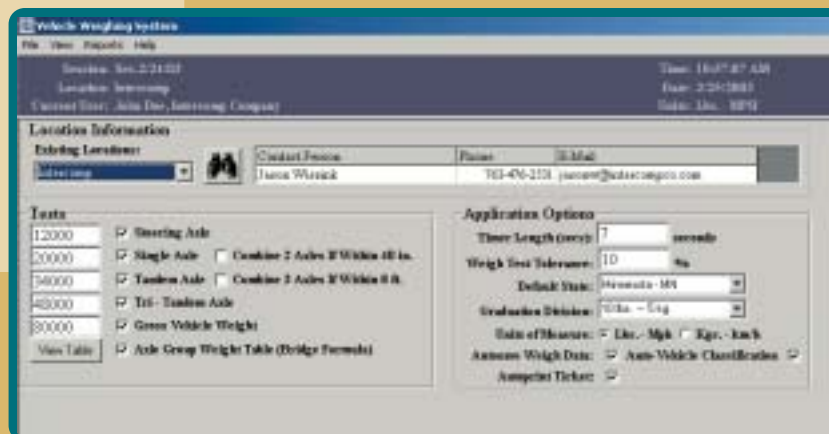
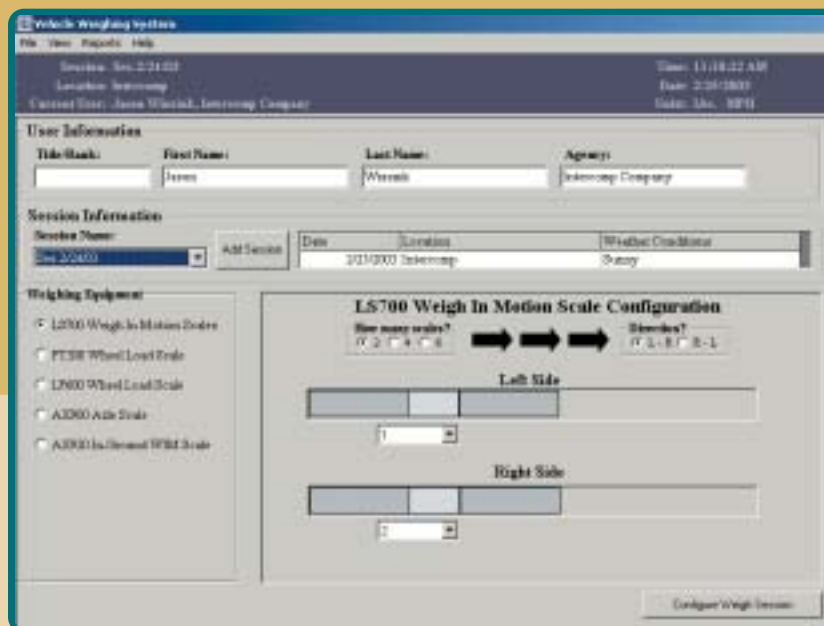
You can supply the computer yourself or purchase one from Intercomp. If we supply the computer, we will install all of the hardware and software that you need and optimize it for your WEIGH-IN-MOTION application.

If you supply your own computer you will have to:

- *Install the LS700 weigh pad interface card*
- *Install the Weigh-in-Motion software*
- *Adjust the Weigh-in-Motion parameters*

It is recommended that you feel comfortable working with computers, both hardware and software, to accomplish these tasks. Using the Weigh-in-Motion software after the installation of the components is user friendly, and easy.

PENTIUM IV, 1GHZ OR BETTER PROCESSOR
HARD DRIVE WITH AT LEAST 50MB OF FREE SPACE (FOR INSTALLATION AND DATA FILES)
128 MB RAM (256MB RECOMMENDED)
3D AGP VIDEO CARD
OPTIONAL: IMPACT DOT MATRIX TICKET PRINTER



WIM Administration Setup Screen

Vehicle Classification Distribution

2/25/2003 TO 2/25/2003

Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
12:00 - 1:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 - 2:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 - 3:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 - 4:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 - 5:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 6:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 7:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 8:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 - 9:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 - 10:00 A.M.	2	1	1	0	0	0	0	0	0	0	0	0	0	0	11
10:00 - 11:00 A.M.	2	6	0	0	0	7	0	1	0	0	0	1	2	7	26
11:00 - 12:00 P.M.	0	28	13	4	3	26	8	8	14	0	1	0	0	0	108
12:00 - 1:00 P.M.	0	17	1	2	1	2	0	0	0	0	0	0	0	0	23
1:00 - 2:00 P.M.	0	2	0	10	1	0	0	0	0	0	0	0	0	0	17
2:00 - 3:00 P.M.	0	2	0	0	0	11	11	0	0	0	0	0	0	0	34
3:00 - 4:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 - 5:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 - 6:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 - 7:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 8:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 - 9:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 - 10:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 - 11:00 P.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 - 12:00 A.M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Class Totals	4	38	23	19	22	35	19	18	14	0	1	0	2	7	346
Percentages (%)	1.07	10.98	6.35	5.51	6.36	10.12	5.52	5.20	4.05	0.00	0.29	0.00	0.58	2.02	

Weighment Summary Report					
3/26/2003 to 3/26/2003					
Date: 3/26/2003	Group: 01230 Lbs.	Axes:	Weight(Lbs.)	Spacings(Lbs.)	Weight Stations
Time: 11:01:08 AM	Speed: 1.36 MPH	1	15700	0	Single Axis
Plate: MN1218AC	Wheelbase: 21 In.	2	11560	0	Trailer Axis
Owner: Intercomp	Class: 9 - 5 Axis Single	3	14550	0	Triple Axis
	Trailer Trucks	4	12200	0	
Comments:		5	13420	2	Gross Vehicle Weight Bridge Formula
Date: 3/26/2003	Group: 10500 Lbs.	Axes:	Weight(Lbs.)	Spacings(Lbs.)	Weight Stations
Time: 11:01:02 AM	Speed: 4.26 MPH	1	10500	0	Single Axis
Plate: MN1218CX	Wheelbase: 24 In.	2	9800	0	Trailer Axis
Owner: Intercomp	Class: 9 - 5 Axis Single	3	12600	0	Trailer Axis
	Trailer Trucks	4	12500	10	Gross Vehicle Weight Bridge Formula
Comments:		5	9800	2	
Date: 3/26/2003	Group: 12620 Lbs.	Axes:	Weight(Lbs.)	Spacings(Lbs.)	Weight Stations
Time: 11:00:41 AM	Speed: 4.65 MPH	1	12620	0	Single Axis
Plate: MN1057K1	Wheelbase: 30 In.	2	11770	0	Trailer Axis
Owner: Intercomp	Class: 6 - 3 Axis Single	3	8750	2	
	Unit Trucks				
Comments:					
Date: 3/26/2003	Group: 14400 Lbs.	Axes:	Weight(Lbs.)	Spacings(Lbs.)	Weight Stations
Time: 11:01:11 AM	Speed: 3.71 MPH	1	14400	0	Single Axis
Plate: WJ51764	Wheelbase: 12 In.	2	10070	10	
Owner: Intercomp	Class: 6 - 3 Axis Single	3	8400	2	
	Unit Trucks				
Comments:					
Date: 3/26/2003	Group: 14400 Lbs.	Axes:	Weight(Lbs.)	Spacings(Lbs.)	Weight Stations
Time: 11:01:25 AM	Speed: 3.33 MPH	1	14470	0	Single Axis
Plate: 11W852A	Wheelbase: 14 In.	2	11140	0	
Owner: Intercomp	Class: 6 - 3 Axis Single	3	9210	3	
	Unit Trucks				
Comments:					
Date: 3/26/2003	Group: 15990 Lbs.	Axes:	Weight(Lbs.)	Spacings(Lbs.)	Weight Stations
Time: 11:01:42 AM	Speed: 6.27 MPH	1	14530	0	Single Axis
Plate: MPA481065	Wheelbase: 13 In.	2	11720	10	
Owner: Intercomp	Class: 6 - 3 Axis Single	3	9300	3	
	Unit Trucks				
Comments:					

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advanced weighing technology . . . by any measure

WEIGH PAD Specifications

LS700PORTABLEWIMSYSTEM

Rated Capacity:	LARGE	MEDIUM	SMALL
	40,000 lbs/ 20,000 kg	30,000 lbs/ 15,000 kg	20,000 lbs/ 10,000 kg
Weight:	140 lbs/64 kg	99 lbs/45 kg	53 lbs/24 kg
Pad Size:	36 x 24 x 1 inches/ 914 x 610 x 25 mm	28 x 22 x 1 inches/ 711 x 558 x 25 mm	22.5 x 15 x 1 inches/ 571 x 381 x 25 mm
Operating Temperature			
Range:	-22 to +140 deg F/-30 to 60 deg C		
Material:	High strength aluminum alloy		
Operating Speed:			
	0-6 mph/ 0-10 km/h		
Static Accuracy:			
	Up to 0.1% of verified gross weight		
Dynamic Accuracy:	±1% of verified gross weight 3mph/5km/hr		
	±3% of verified gross weight 6mph/10km/hr		
Overload Capacity:			
	200% full scale		
Input/Output Resistance:			
	280 ohms		
Output:	2.0 mV/V		
Excitation:	5 to 15 VDC		
Power:	Battery, AC or DC from vehicle		
Stability:	0.5% full scale/year		
Ground Level Requirement:			
	<0.2 inch within 0-12 feet/ <5 mm within 0-3.65 meters		
Design Standard:			
	NTEP Class IV / OIML Class IV R76		

Site conditions must meet or exceed those specified in ASTM E1318-00.

Leveling Pad Specifications:

Size:	Same as weigh pads		
Section Weight:	Large-	20 lbs/9 kg	
	Medium-	14 lbs/6.5 kg	
	Small-	7 lbs/3.2 kg	
Material:	High compression strength composite		
Temperature			
Range:	-40 to 150 deg F/-40 to 65 deg C		

System Components:

- WIM Weigh Pads
- Leveling Pads
- Approach & Exit Ramps
- WIM Interface Box
- Notebook Computer
- WIM Software
- Cabling for Pads & Computer
- Transport Case



Designed for portable Weigh-in-Motion systems, these weigh pads are only 1" in profile. They are fabricated from high strength aluminum and have a capacity of up to 40,000 lbs/20 tons per pad. Each pad has a flexible and quick disconnect connector for easy setup.

These weigh pads can be used with or without leveling approach pads. For higher accuracy we recommend the use of approach and exit pads. Each pad spans approximately three feet in length, and ensures that the vehicle stays level during the weighing process. The leveling pads and ramps are made from a high compression strength composite material. They are easy to setup and takedown. Angled ends provide a smooth transition from the road surface to the elevated runway.

The approach and exit pads attach to the weigh pads to ensure that they stay in place at all times. Since the pads are modular, you can order as many or as few sections as you need, depending on the size of vehicle you are weighing.

LS700™ is a trademark of Intercomp Company.



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