

Miovision Counting Equipment

Using camera technology to meet the needs of customers, INDOT, and FWHA.

What is Miovision?

- Miovision is a camera-based traffic, bicycle, and pedestrian monitoring system.
- Field technicians set up the camera and collect the data.
- Miovision (the company) processes the data and provides PRN, Excel, and several other data formats to help with processing.
- Compatible with MS2.

Miovision Set Up

- Miovision Cameras and extension poles can be set in two ways, depending on conditions and fixtures around the count area.
- Light poles, telephone poles, and power poles are the easiest and most common way to secure the extension pole.
- All units come with a tripod and weight set as well if existing poles are not available.

Miovision Set Up Options



Tripod VCU



Pole-Mount VCU



Camera



Control Box

Miovision: What to use it for?

- Miovision can replace antiquated counting methods for tedious data collection.
- Collect bicycle and pedestrian data easily and unobtrusively.
- Collect turning movement data with minimal manpower expenditure.
- Collect classification traffic counts where only axle counts were able to be collected before due to road set up.

Turning Movement Collection

- A single Miovision camera can collect the data of multiple legs from a large intersection without difficulty. It will even classify that data!
- The following slide is SR 49 at CR 1100 E in Porter County. 4 lane, divided highway with turn lanes in all cardinal directions.

Miovision in Action



Miovision in Action

- One camera covered the entire intersection easily.
- All turning movements were captured.
- Total classified vehicle volumes were captured on all the legs.
- Multiple cameras can be used for larger, or more spread out intersections.

Miovision Advantages

- Safety – Set up is off the road, and can be done very quickly.
- Start up costs are high, but reasonable.
- Less manpower for better counts, especially turning movements.
- Classify vehicles where road set up did not allow for it before.
- Pedestrian and bicycle counts are easy to collect.

Miovision Drawbacks

- Cost of Processing – Each Study must be processed by Miovision, and they do charge for that. The more detailed the video breakdown, the longer the study, the higher the cost.
- Less Detailed – Vehicle classification is only in up to 6 classes, instead of INDOT standard 13.
- Difficult to completely secure in the field. It can be tampered with easily.

Start Up Costs

- Cost of a Miovision VCU and everything needed for data collection is \$3,999.
- Includes a VCU, extension pole, camera, locks, SD card, and necessary tool.
- All you need is a pair of ratcheting straps to secure the Miovision pole to a location.
- Tripod with weights is extra. (\$1099)

Completed Study Data

- Comprehensive data charts available in PDF, Excel, or several other formats.
- Easy to read and understand for any kind of study.
- Each study can be customized for export purposes, in case more or less detail is needed.
- Class data can be loaded into MS2.

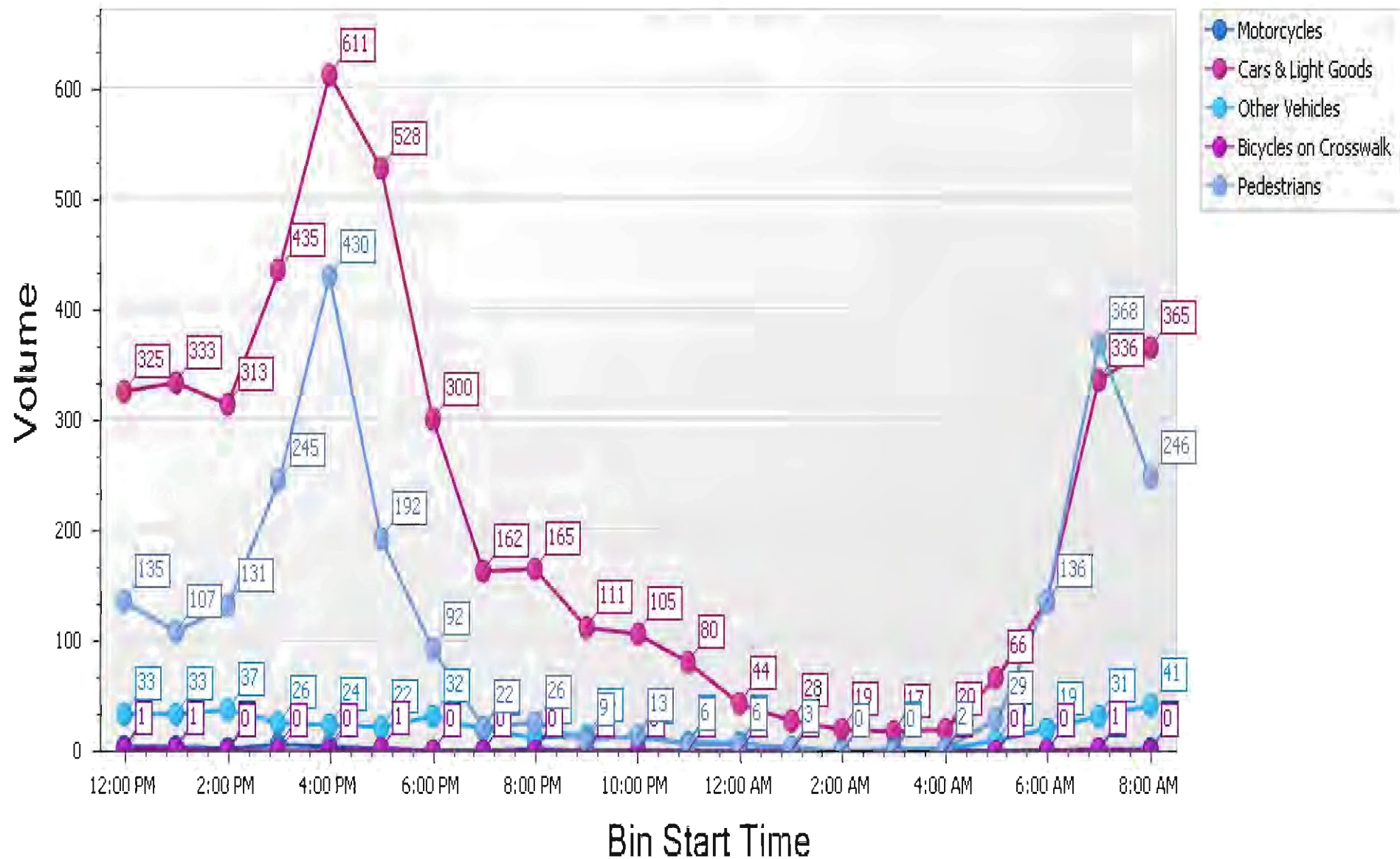
Miovision Class PRN

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000000RAMMIO 000064022000 01 0900 092215 0900 092315 0060 01 2 100 54000
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 31xxxxxx0000000000000000
'PORTER 'US 12 0.10 MI W OF SR 49
02 15 0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011 0012 0013 0014 0015
01 02 0001 0002
00 00
00 01 3 1000 0000 0043 0008 0000 0000 0002 0000 0000 0012 0000 0000 0000 0000 0000
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00 01 3 0900 0001 0016 0006 0000 0000 0001 0000 0000 0001 0000 0000 0000 0000 0000
00 02 1 0900 0000 0007 0001 0000 0000 0001 0000 0000 0002 0000 0000 0000 0000 0000
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Start Time	Westbound Approach				Eastbound Approach				Int. Total
	Westbound				Eastbound				
	Thru	U-Turn	Peds	App. Total	Thru	U-Turn	Peds	App. Total	
12:00 PM	244	0	136	244	115	2	0	117	361
1:00 PM	217	0	108	217	149	4	0	153	370
2:00 PM	242	0	134	242	110	0	0	110	352
3:00 PM	345	0	245	345	121	0	0	121	466
4:00 PM	512	1	430	513	126	0	0	126	639
5:00 PM	389	0	193	389	162	0	0	162	551
6:00 PM	229	1	92	230	102	0	0	102	332
7:00 PM	120	0	22	120	61	0	0	61	181
8:00 PM	116	0	26	116	61	0	0	61	177
9:00 PM	79	0	9	79	46	0	0	46	125
10:00 PM	69	0	13	69	47	0	0	47	116
11:00 PM	60	0	8	60	27	0	0	27	87
12:00 AM	36	0	5	36	15	0	0	15	51
1:00 AM	16	0	3	16	12	0	0	12	28
2:00 AM	14	0	0	14	3	2	0	5	19
3:00 AM	15	1	0	16	2	0	0	2	18
4:00 AM	15	0	2	15	8	0	0	8	23
5:00 AM	30	2	29	32	42	2	0	44	76
6:00 AM	71	1	136	72	83	0	0	83	155
7:00 AM	184	2	369	166	200	1	0	201	367
8:00 AM	191	0	246	191	217	0	0	217	408
Grand Total	3174	8	2202	3182	1709	11	0	1720	4902
Approach %	99.7	0.3	-	-	99.4	0.6	-	-	-
Total %	64.7	0.2	-	64.9	34.9	0.2	-	35.1	-
Motorcycles	14	0	-	14	9	0	-	9	23
% Motorcycles	0.4	0.0	-	0.4	0.5	0.0	-	0.5	0.5
Cars & Light Goods	2900	8	-	2908	1580	11	-	1591	4499
% Cars & Light Goods	91.4	100.0	-	91.4	92.5	100.0	-	92.5	91.8
Other Vehicles	260	0	-	260	120	0	-	120	380
% Other Vehicles	8.2	0.0	-	8.2	7.0	0.0	-	7.0	7.8
Bicycles on Crosswalk	-	-	4	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	0.2	-	-	-	-	-	-
Pedestrians	-	-	2198	-	-	-	0	-	-
% Pedestrians	-	-	99.8	-	-	-	-	-	-

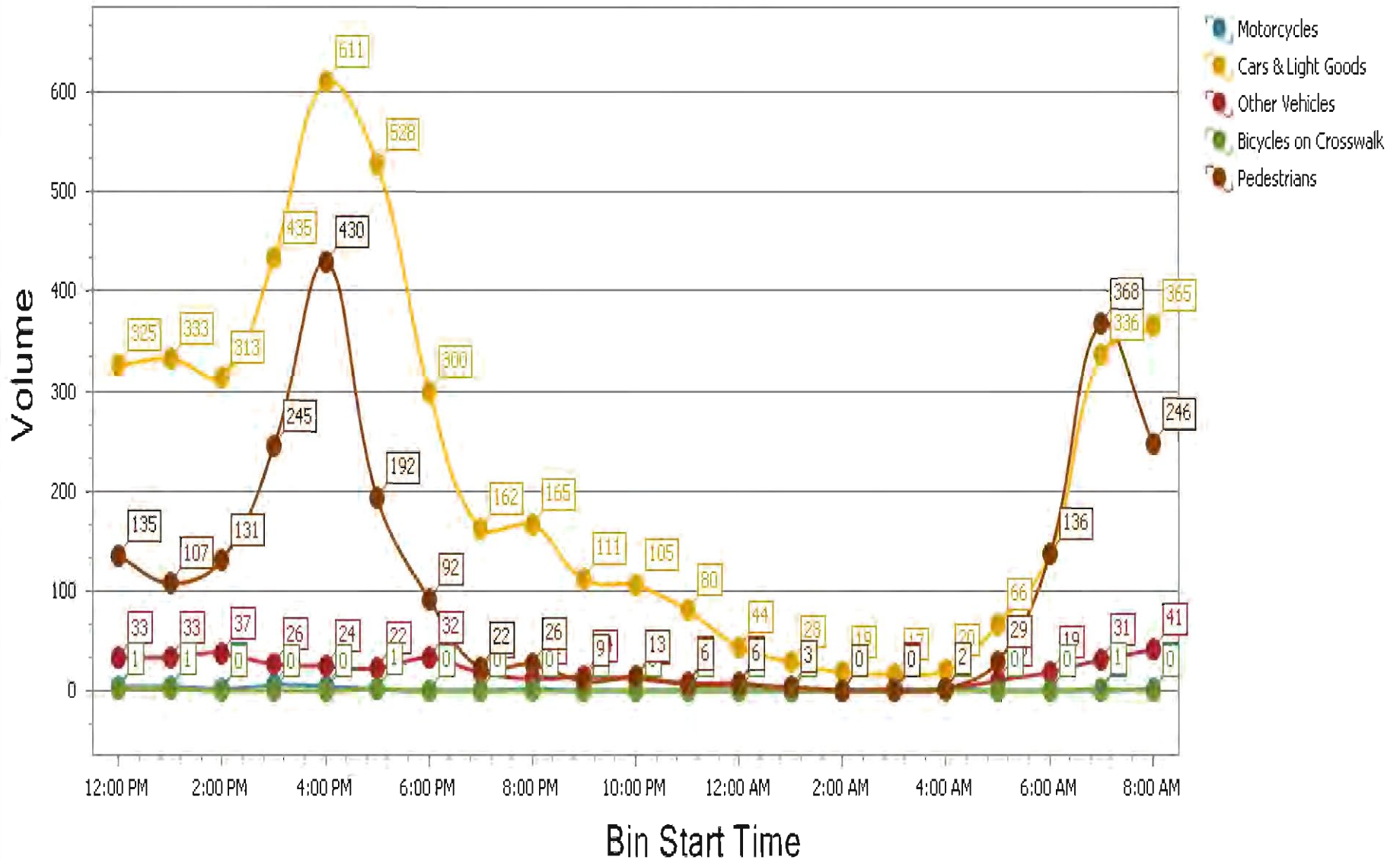
Ohio St. (ID 255884)

Volume by Group



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