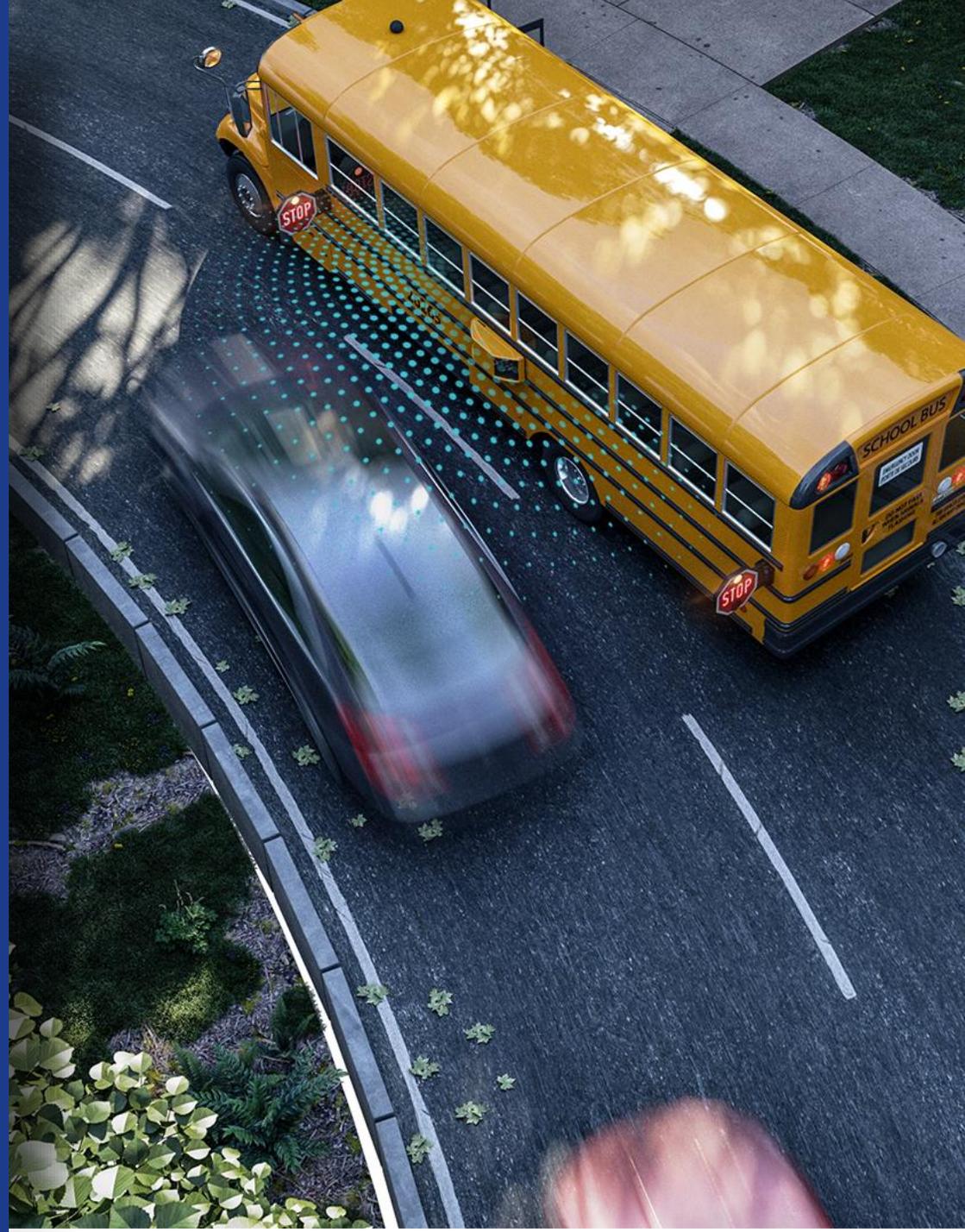




# BUSPATROL

Technology Powering  
The World's Most Deployed  
School Bus Safety Program

Industry-Leading Hardware & Software





Stop-Arm Violations: A National Problem that Needs to be Addressed

**130,963**

School Bus Drivers



Participated  
Across

**39**

States



Stop-Arm Violations: A National Problem that Needs to be Addressed

**95,319****STOP-ARM VIOLATIONS**

OBSERVED IN ONE DAY

**= .73** **VIOLATION RATE**  
PER BUS  
PER DAY

Stop-Arm Violations: A National Problem that Needs to be Addressed



**17 MILLION**  
**STOP-ARM VIOLATIONS**  
**OCCURRING IN AMERICA**  
ACROSS 180-DAY SCHOOL YEAR

2019 Results – A National Problem



Pilot Projects Conducted by BusPatrol in NY State Reiterate the NASDPTS Stop-Arm Survey's Findings



## East Meadow, NY (04/29/2019 - 06/30/2019)

<b>9</b>	<b>10</b>	<b>615</b>	<b>1.47</b>
School Weeks	School Buses	Total Violations	Avg. / Bus / Day

## Half Hollow Hills, NY (09/09/2019 – 12/01/2019)

<b>12</b>	<b>5</b>	<b>1154</b>	<b>4.05</b>
School Weeks	School Buses	Total Violations	Avg. / Bus / Day

## Niagara Falls, NY (09/30/2019 - 12/01/2019)

<b>9</b>	<b>2</b>	<b>101</b>	<b>1.47</b>
School Weeks	School Buses	Total Violations	Avg. / Bus / Day



# Automated Stop-Arm Enforcement

## Allentown Pilot

Traditional enforcement methodology makes enforcing the law and correcting motorist behaviour an impossible feat



2019-2020 BusPatrol Pilot in Allentown PA			
<b>ONLY 47</b>	<b>ONLY 2</b>	<b>205</b>	<b>2.18</b>
School Days	School Buses	Camera Violations	Avg. / Bus / Day
PA Traditional Enforcement 2018 (Year)			
<b>ALL 2018</b>	<b>16,380</b>	<b>667</b>	<b>0.00022</b>
School Weeks	School Buses	Tickets in 2018	Avg. / Bus / Day

<https://local21news.com/news/local/state-police-officials-team-up-to-improve-pa-school-bus-safety>

<https://www.dmv.pa.gov/pages/pennsylvania-school-bus-statistics.aspx>

“

TO AMPLIFY THE SHOCKING RESULTS FROM THIS SCHOOL YEAR WAS **THE FACT THAT OVER A SIX DAY PERIOD, SIX STUDENTS WERE KILLED, AND EIGHT STUDENTS AND TWO ADULTS WERE INJURED BY VEHICLES** EITHER VIOLATING SCHOOL BUS STOP ARMS OR HITTING STUDENTS AND ADULTS WHILE THEY WERE WAITING AT A BUS STOP.”

---

– MIKE LAROCCO  
PRESIDENT NASDPTS



**NASDPTS**

National Association of  
State Directors  
of Pupil Transportation Services



# U.S. Transportation Safety Agency to States: Enact Lifesaving Law to Permit Stop-Arm Cameras on School Buses to Issue Citations to Negligent Drivers

BusPatrol applauds the NTSB's Latest Safety Recommendations for Improved School Bus Safety Enforcement Measures.

NEWS PROVIDED BY

[BusPatrol](#) →

Apr 07, 2020, 17:30 ET

SHARE THIS ARTICLE



LORTON, Va., April 7, 2020 /PRNewswire/ -- [BusPatrol](#), a leading school bus safety technology company, applauds the National Transportation Safety Board's (NTSB) recommendations encouraging the adoption of stop-arm cameras to deter drivers from illegally passing stopped school buses.

The National Transportation Safety Board (NTSB) today called on states to combat school bus stop-arm violations by enacting laws enabling local jurisdictions to install automated enforcement cameras on stop-arms and to issue citations to violators caught on camera.

On April 7, 2020, the NTSB released the abstract for its investigative report on the fatal collision involving four students who were crossing a road to board a stopped school bus in Rochester, Indiana, on October 30, 2018. Three of the student pedestrians, all of the same family, were killed.



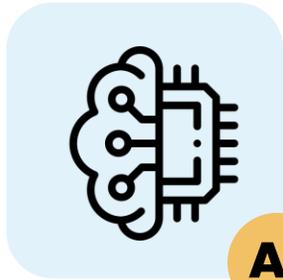
Your State should take the proactive steps to reduce stop-arm violations by enabling stop-arm Legislation



FOR LIFE OF PROGRAM

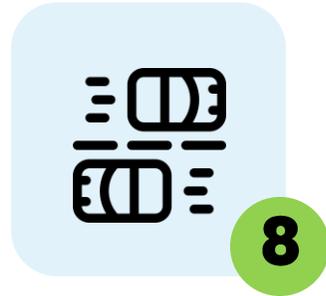
Most Deployed Stop-Arm Program in World

The stop-arm enforcement camera suite contains 3-5 high resolution cameras, optimized for performance in environments with variable weather and light conditions.



**Ai**

AI Assisted Technology



**8**

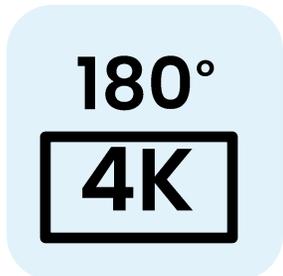
8 Lanes of Coverage



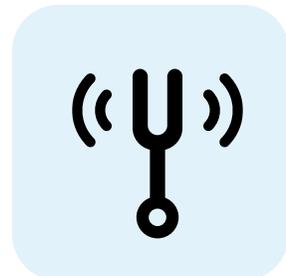
Variable Weather Conditions



Variable Light Conditions



4K & 180° Coverage



Anti Vibration Technology



**HIGHEST STOP-ARM CAPTURING RATE**

Bus Moving



car: 43%



car: 37%



car: 38%



car: 32%



car: 37%



car: 55%



car: 34%



car: 34%



car: 31%



car: 87%



car: 36%



truck: 82%



bench: 42%



person: 4%

car: 32%

truck: 82%

car: 31%

car: 33%

car: 83%



### BUS ROUTE



Stop-arm camera activated, while bus is in operation



Overhead lights activated, bus stops and stop-arm is deployed



Stop-arm violations are identified and recorded



Video, GPS and other supporting data sent to processing center

### PROCESSING & REVIEW



BusPatrol reviewers compile video and evidence package



Video and supporting evidence package sent to law enforcement



Police issue a stop-arm violation ticket

ENFORCEMENT  
& EDUCATION

Ticket is mailed to offender with website containing link to access video evidence



Driver makes payment online or at designated municipal office



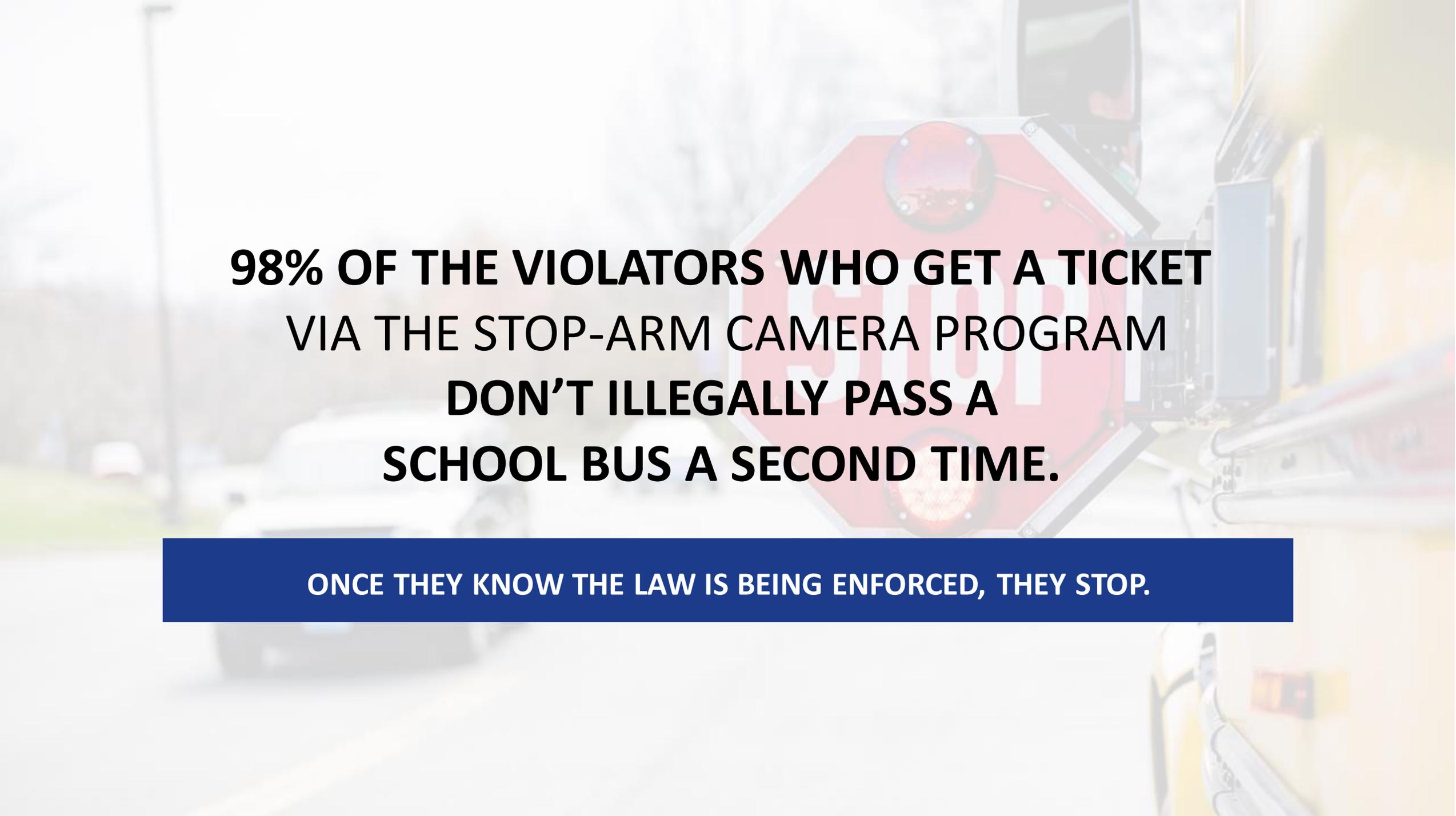
Citation revenue used to cover program expenses



Call Center Available to Educate Drivers on Road Safety and Facilitate Citation Management and Collection

\*Payment options also include phone and mail, including payment plans

**FULL-STOP ENFORCEMENT PROGRAM** MORE THAN TECHNOLOGY

The background of the image shows a red octagonal stop sign with a white border and the word "STOP" in white capital letters. A camera is mounted on top of the sign. The sign is attached to a yellow school bus. The background is blurred, showing a road and some trees.

**98% OF THE VIOLATORS WHO GET A TICKET  
VIA THE STOP-ARM CAMERA PROGRAM  
DON'T ILLEGALLY PASS A  
SCHOOL BUS A SECOND TIME.**

**ONCE THEY KNOW THE LAW IS BEING ENFORCED, THEY STOP.**