

School Bus Safety



The Project:

The goal is to keep our students safe with the added benefit of creating a revenue stream.

Digital Communication Systems LLC has provided unique solutions to novel problems for over two decades. The assisted traffic violation form completion solution leverages AI to collect data from your current fleet software and add law enforcement grade ALPR+ data to pre-fill driver ticketing forms.

1

IC BUS 360

International bus fleet management software
accessed via API

2

PRO-VISION VIDEO SYSTEMS

CloudConnect Video
accessed via Azure

3

SIGHTHOUND

Automatic License Plate Reader
accessed via API



The Situation:

Drivers ignore school bus flashing stop lights and create a hazard.



The Issue:

The time required to manually complete the forms for ticketing.



The Solution:

Leverage ALPR technology to auto complete ticketing forms.

System Integration

Digital Communication Systems LLC makes different systems communicate to form a cohesive work flow

You already use International IC BUS 360 to track your fleet and assure it is properly maintained. You have Pro-Vision video systems installed on the bus to record evidence of traffic infractions. You have established procedures, forms and access to law enforcement to hold drivers accountable for their actions.

You don't prosecute every single infraction due to the amount of manual effort required. The video needs to be requested, reviewed, license plate and other information manually written on a form by the driver. This is a time consuming tedious task that results in only the worst infractions being submitted.

Digital Communication Systems LLC will take the information you are already collecting, combine it with the latest in AI vision systems, and integrate the form preparation with pre-filled information. This will reduce the time and effort needed by the driver for prosecution.



“This is a project with a defined ROI and a continued revenue stream for the transportation department.”

The revenue sharing from the successful prosecution of potentially serious and deadly traffic infractions provides cost justification for the expense. The effort required from the drivers to manually fill the forms means many infractions are never prosecuted.

ALPR+ TECHNOLOGY BY SIGHTHOUND.

Sighthound ALPR+ combines state-of-the-art AI with advanced computer vision technology to deliver a comprehensive suite of capabilities, including AI-powered object recognition, intelligent object tracking, vehicle identification, license plate recognition, and detailed vehicle information. Powered by our Gen 6 AI and processing over a billion images annually, Sighthound ALPR+ sets the standard for unmatched accuracy and lightning-fast performance. Sighthound ALPR+ API delivers precise vehicle detection, recognition, and analytics. It is designed for seamless integration into any workflow, whether you're running it on local servers, edge devices, or in the cloud.



Local laws

Laws in the local district

The Lincoln Consolidated School District in Ypsilanti Michigan is legally permitted to launch this automated stop arm ticketing program under Michigan Public Acts 161, 162 and 163 which took effect April 2, 2025. The hardware video capture system must be in compliance with Michigan statute MCL 257.1805. This states the system must utilize two or more camera's affixed to the exterior of the bus. The video must include 200ft of coverage and have date, time and GPS meta data. Further requirements of Sighthound AI ALPR+ include a video of 1020p resolution with a 72PPI density.

The agreement must include law enforcement cooperation which is assumed to already be in place.

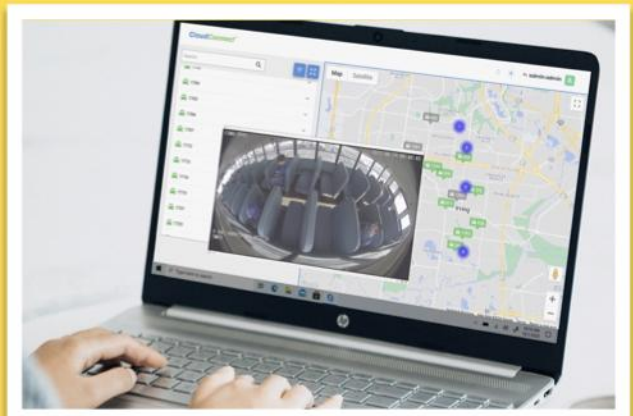


“It sounded difficult, but since we already have the processes and hardware in place, installation of our customized solution was like putting together a LEGO model.”

The solution is cost effective because it uses the equipment you already own.

PRO-VISION VIDEO

Today's school transportation fleets increasingly rely on wireless connectivity solutions, such as cellular networks and fixed Wi-Fi infrastructure, to automate video downloads and streamline fleet operations. Understanding these technologies helps leaders choose the best system for their needs. The Role of Connectivity in Modern School Bus Video Systems In this connected landscape, school bus video systems are no longer standalone recording devices. Instead, they function as part of a data ecosystem that enables transportation teams to quickly retrieve crucial video footage. Wireless connectivity allows video systems to provide faster access to incident-related video, enables remote system updates, support maintenance workflows, and reduces manual handling of storage devices. By minimizing manual processes, such as physically removing hard drives or SD cards, transportation teams save significant time, reduce error risks, and improve overall fleet operational efficiency.



Next Steps

Digital Communication Systems LLC creates

custom solutions based on your individual abilities and needs

DCS provides custom solutions to complex needs. The customization comes at the expense of inexpensive packaged software that you must adapt your procedures to comply with the software limitations. DCS provides you the ability to run your processes the way you want to run them. This is surgical precision software customized to the exact way you want to run your processes. This adaptability comes at a cost. The software you want does not exist, it must be made.

The next step to determine this projects feasibility, and acceptable ROI, is to schedule a meeting with our software developers to determine the current abilities of your environment and evaluate the scope of effort required to deliver the upgrade you request.

Contact : Jeremy Lagerman (734)395-8120

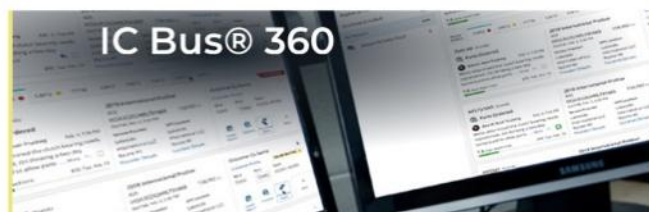


“Our bus drivers are able to complete the needed forms in a fraction of the time and with minimal effort.”

The collection of traffic fines is just a beneficial side effect of the prosecution of infractions. It provides offenders with a reminder of the cost in terms of personal dollars rather than cost of a tragic loss of young life.

INTERNATIONAL IC BUS 360 FLEET MANAGEMENT

Introducing IC Bus 360®, an all-new service communication and fleet management solution that helps overcome the complexities of managing a school bus fleet while lowering Total Cost of Ownership. IC Bus® 360 simplifies fleet management by integrating multiple fleet data sources and tools into one easy-to-use solution: Location, health data, and more powered by OnCommand® Connection and integrated with most major Telematics Service Providers. Fully compatible with existing systems, including fleet maintenance providers, fleet management companies, and more via simple application programming interfaces (API's).



Introducing a Revolution in Fleet Management

Wouldn't it be great if there was a way to accelerate the repair process, streamline communications with dealers, and drive uptime?

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