

Intelligent  
Selection™  
by



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Since 1969

**GRAY ELECTRONICS**

## **INTELLIGENT SELECTION™-INTERNET PROTOCOL (IsIp)** **PICTURES ARE STAND ALONE EVIDENCE.**

Gray's Intelligent Selection™ concept in the original design, in May 1996, was to provide Digitized High Resolution Pictures that could be used as stand alone evidence in a court of law. Court tested pictures that included the Time and Date along with Camera location data were passing muster in court cases at that time.

Gray upgraded Intelligent Selection to Intelligent Selection™-Internet Protocol (IsIp) in June 2008. The goal of providing pictures that are **“Stand Alone Evidence”** dramatically expanded with **IsIp** which utilized TCP Networks and Internet Protocol processing to Capture High Resolution Megapixel Pictures and store these pictures on Secure **IsIp** Databases on the hard drives of Personal computers, locally or at remote locations, utilizing the Internet.

The heart of IsIp expansion software was its IsIp Axis Camera Driver which provided a means for **“intelligent selection”** of pictures from up to 96 IP cameras over TCP Networks or Internet Protocol IP Addresses. IsIp Axis Camera Driver software has the ability it receive Alarm data that is generated by Switches that may be installed on the Stop Sign of a school bus and/or the passenger entry door or even Motion Detection within the IP Camera picture. This alarm data or contact closure is wired to the Axis IP Camera physically mounted on a specific school bus outfitted with a router and Cellular High Speed Internet (3G/4G) access. The Axis Camera uses this Internet IP address to transmit a TCP encoded alarm signals to the Internet IP Address of the personal computer installed at a secure location, for example the Bus Deployment office. The IsIp Axis Camera Driver software and the IsIp Database software would be installed on this computer.

IsIp Axis Camera Driver reads this Alarm code and launches an associated alarm script which was written especially for the School bus with the IP address where the alarm signal was generated by opening the Stop sign on the bus. The IsIp Alarm script may contain up to (10) ten “Get” commands that will be sent via http protocol to the IP address of the school bus where the bus router sends the Get Picture command to the camera that sent the alarm signal. The http data commands the camera to send a series of still frame, M-jpeg, Megapixel resolution pictures that include license plate data and information on the Brand and model of the vehicle, to the IsIp Axis

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Camera Driver which routes each picture to the Secure IsIp Database located on the hard drive of the Personal computer, where it is stored. Prior to storing each picture Axis Camera Driver Writes into line one of the picture, text data that describes the Camera Number, The Date received from the PC, The Time with accuracy to 1/100<sup>th</sup> of a second, the Alarm Script number and text that describes the cameras name, i.e. HCISD bus No 41, stop sign camera, etc.

Consequently, IsIp pictures that include the Brand/model of the vehicle and license plate data provides stand alone evidence that the series of pictures captured by the IP camera installed on this specific bus, and stored on a Secure Database on a Personal Computer as a result of an alarm signal being automatically activated by the extension of the stop sign of the specific bus which triggered an Alarm Script to request and receive each of the series of pictures that had the Camera number, Date, Time to 1/100<sup>th</sup> second, Alarm Script Number and text that describes the Camera name/location, permanently written into line one, and stored on a Secure IsIp Database on a Personal computer physically located at the bus deployment location of the school district prove that the vehicle in the picture ran the stop sign located on a specific HCISD Bus (number) on a specific Date and Time and the owner of this vehicle could be prosecuted or name the driver or be prosecuted as an accessory to the crime.

Each of these pictures may be retrieved by IsIp Remote Viewer software which allows Password protected operators the ability to search and sort the IsIp databases, from each individual school bus, of the fleet to isolate and copy or print the series of pictures needed for the stand alone evidence of a driver running the Stopped School bus Stop Sign.

An example of the text written permanently into each picture stored would be:

Camera: Co4 Date: 2010/11/01 Time:13:16:49:85 Alarm:45 (Camera Name: HCISD Bus 41 Pos: Stop Sign Camera outside)

An example of the information derived from the picture would be:

Blue 2006 Nissan Sentra with Texas License plate GOT 007.