IMPS™

License Plate Reader

IMPS-SYS-A LICENSE PLATE READER

FEATURES

- **Well Proven System**
- **Immediate Deployment**
- **High Performance IMPS™ Software**
- **Performance Unix booted from DOS**
- **Independent Realtime Image Capture**

OPTIONS

- **Flexible Interfacing**
- **IP65**
- **Shock Mounting**
- **Multiple Cameras**
- **Solid State Disk**

APPLICATIONS

Car Parks

Weigh Stations

Weigh-In-Motion

Intelligent Transportation

Border Crossings

Fleet Management

Parking Violations

Toll Collection Enforcement

Speed Enforcement

Red Light Enforcement

INSTALLATIONS

Singapore

Taiwan

Hong Kong SAR

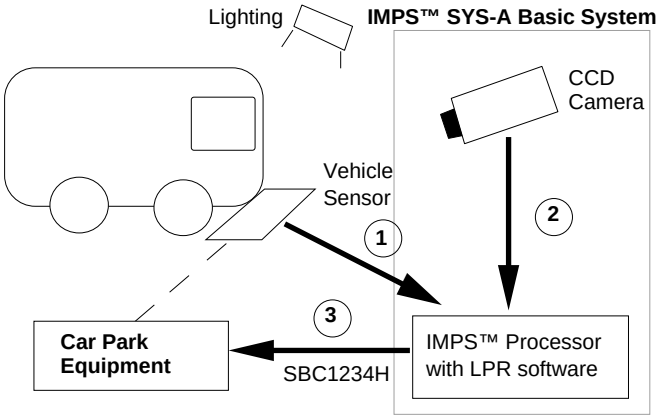
more coming up ....

A well proven system with installations in Singapore, Taiwan and Hong Kong**,** **IMPS-SYS-A** license plate reader is a complete working system. Our Unix system booted from DOS provides best of performance and maintainability, entire system may be backed up and restored on single DOS zipped file.

The system comprises:
- CCD Camera with Auto-iris Fixed Lens
- Pentium Processor
- Image Capture Card
- IMPS™ LPR software

Typical Configuration for Car Park Systems

Step 1: Trigger
Vehicle Passes Sensor and Triggers (24V) IMPS™
Step 2: Image Capture and LPR
Image from CCD Camera is captured and license plate number is read
Step 3: Results Output
License plate number is send out via RS232



Triggering

A 24V trigger input is required to initiate reading of the license plate. Optionally the system may be triggered via
- Clean contact
- Serial Data Communications
- TCP Data Communications
- Internal Video Based
- Keyboard

Outputs

I) LPR results file (License Plate Numbers), 256 bytes
ii) Optional image file, jpeg compressed approximately 20k bytes

Optionally the results may be output via
- Network File System (NFS)
- Remote File Copy (RCP)
- TCP sockets (LPR Results)

OPTASIA

Lane Coverage
Typically lane width of 2.5 metres for license plates that are centrally located.

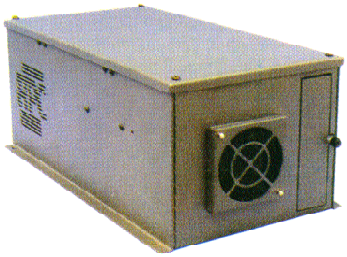
Performance
Minimum of 95% accuracy for Singapore and Malaysian front license plates with good image.
Above 85-95% for other plates with letters A to Z, 0 to 9.

Vehicle Speed
Handles 180 kmh or higher.

Reading Time
Average less than one second, varies from country to country.

Electrical Supply
230V AC 50 Hz 200W, UPS
12/24VDC Option

Ordering Information
Up to 8 cameras may be attached to the system.
Product Number is SYS-AX where X is the total number of cameras.



Industrial PC (Optional)

CCD Camera Specifications
1/2 inch format CCD Imager
Electrical
230VAC, 50 Hz, 4W
Sync: CCIR
Mechanical
Lens Mount: C or CS
Camera Mounts: 1/4-20 UNC, top and bottom.
Dimensions and Weight (Less Lens)
149Lx65Hx70W mm, 0.7Kg
Environmental
Temperature
Operating: -10 ° C to +55 ° C
Storage: -40 ° C to +70° C
Humidity: 0% to 93% relative, noncondensing
Vibration: 10m/s/s
Shock: 880m/s/s

Installation Notes

Interfacing
We can provide the necessary interfacing to your equipment for proprietary protocols via numerous media at low or no cost. Please enquire.

Lighting (Not Supplied)
For night or indoor operations, fail-safe ambient artificial lighting will be required. Minimum lighting of 800 lux is required for stationary or slow moving (15kmh) vehicles. Multiple source ambient lighting is preferred.

Camera Mounting, Housing and Cabling (Not Supplied)
Depending on the environment, the systems integrator would need to provide the appropriate mounting and housing (enclosure).

Related Products

IMPSVIEW 38™ Lens	Height doubling anamorphic lens for mounting cameras at steep angle up to 60 degrees or for widening lane coverage to 4 metres. See http://www.singaporegateway.com/optasia/product.
Infra-red Lighting	300W IR light for night operation without strobe light.

For more information please contact

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