

# LPR Traffic Radar Speed Sign





The NobTra LPR Traffic Radar Speed Sign uses the principle of radar speed measurement, combined with LED technology, to display the speed of the vehicle to the driver in time. Generally speaking, the speed feedback sign consists of three parts: 1) Speed limit sign; 2) Radar speed measuring device; 3) Electronic display board; The display board will show the speed of the vehicle, and if there are multiple vehicles driving in the area at the same time, the electronic display board will show the speed of the fastest vehicle among these vehicles.

The LPRS driver feedback sign is the solution that fits your budget. This compact radar speed sign offers exceptional visibility and power efficiency in a lightweight and portable solution. Featuring the options you need at remarkably affordable pricing, the LPRS driver feedback sign will help you keep your neighborhoods safe for years to come.

The NobTra LPR Traffic Radar Speed Sign feedback sign is a device equipped with a speed limit sign and can display the speed of passing vehicles in the detection area on the LED screen in real-time. The vehicle speed feedback sign is widely used in the subsequent radar speed measurement.

The NobTra LPR Traffic Radar Speed Sign displays the speed of the vehicle on the LED screen through radar speed measurement. The advanced speed feedback sign can also display the green speed value for average speed, and the read speed value for Overspeed to warn the driver. Drivers pay attention to controlling their speed. Surveys have shown that vehicle feedback signs can be effective in reducing vehicle speed.

The power supply mode of the vehicle speed feedback sign can be a 220V mains power supply, or it can be combined with a solar panel and battery power supply. In other remote speed-limited sections such as highways that is not convenient to use electricity, the solar power supply is efficient.

In addition, the speed feedback sign can also be equipped with a speeding camera, and the vehicle can take a photo of the speeding vehicle when it is speeding, and send it back to the control center.

## Features

The mobile phone APP to set parameters within 10 meters, and can support Apple, Android and Hongmeng operating systems.

There are 112 levels of sensitivity. 1 is the highest sensitivity and 112 is the lowest sensitivity.

There are ten levels of brightness. 1 is the darkest and 10 is the brightest

Red and green two-color display screen display

Imported professional traffic radar is adopted, with high-precision vehicle real-time display function, accurate and reliable speed measurement results, strong anti-drying ability and high precision.

All-day snapshot function, the system has a large capacity, can store 20,000 illegal speeding records, and supports mobile APP to view the snapshot records. The license plate captured by the camera will display the license plate number on the display.

The LPR camera matching has maximum resolution of up to 2 million pixels, outputs real-time images, supports SD card, up to 256G, and is suitable for day and night. The multi-layer optical lens makes the picture quality clear and restores the scene realistically. The reserved 4G port can be connected to the control center later. The LPR camera perfectly recognizes many countries and regions: the recognition rate can reach 99%.

Radar speed limit card supports customization, which are 30, 40, 50, 60... or other customized values.

supports customized warning characters and languages in different countries, but the characters must be short, for they cannot be displayed if they are too long.

# What can the LPRS Solve?

NobTra® LPRS (LPR radar sign) series products can help us:

- 1.If the driver over-speed, the LPRS will output a warning message to show them, keep safety. Slow down. And the LPR camera take a photo.
- 2.Connect the LPRS to center room via 4G. easy to get the data from the LPRS.
- 3.The vehicle detection data also can connect to the traffic intersection, help us to solve the traffic jam. Or help us to make a plan for the traffic control.
- 4.Warning message: different country symbol can display.



## APP Setting

- .wifi connection
- .Support Android and Apple APP



## LPR camera

- .Most countries have recognizable license plates
- .The recognition rate is as high as 95%.



## Support custom text

- .Create your own LED texts and graphics with the LED editor.



## snapshot records

- .20,000 license plate records
- .Supports viewing and downloading



## 4G networking

- . Set the target server IP and port, so that the data can be transmitted to the client

# NobTra LPR Traffic Radar Speed Sign

## System combination:



## Applications

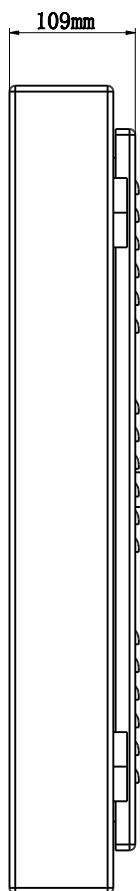
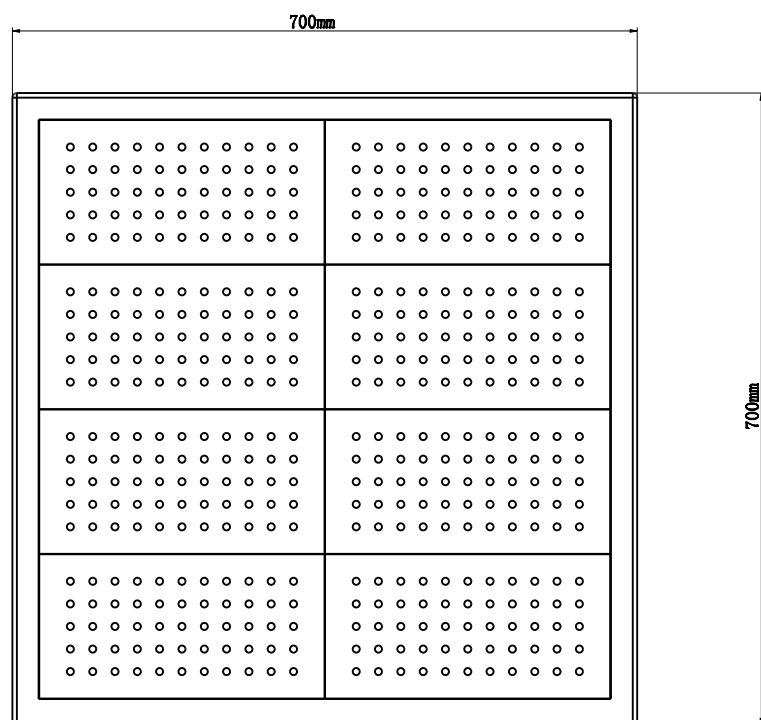
It is suitable for occasions requiring traffic management such as highways, airports, mines, enterprises, schools, hospitals, etc

## Product parameter

|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LED Screen             | 640 x 640mm                                                                                                                                                                             |
| Front speed limit pane | 30 km/40/50/60(optional)                                                                                                                                                                |
| Display Color          | Red and green                                                                                                                                                                           |
| Raw material           | Imported raw materials (including Taiwan-made) high-brightness light-emitting diodes (LEDs)                                                                                             |
| Light decay            | 10000h/3 years working time, light decay (mcd) $\leq 20\%$                                                                                                                              |
| Material               | 3M engineering grade                                                                                                                                                                    |
| Glue filling process   | Using the full glue filling process, all parts of the circuit board visible to the naked eye are full of glue                                                                           |
| Solar panel            | 60watt                                                                                                                                                                                  |
| Battery                | 3pcs 13ah lithium battery                                                                                                                                                               |
| Mounting Height        | 2.5 - 4m                                                                                                                                                                                |
| Standard Mounting      | 60mm galvanised steel column                                                                                                                                                            |
| Continuous rainy days  | 7-10 days                                                                                                                                                                               |
| Visible distance       | Above 300 Meters                                                                                                                                                                        |
| PCB material           | Epoxy glass cloth laminate (FR4), using Kingboard A2 sheet, thickness $\geq 1.6\text{mm}$                                                                                               |
| Three-proof treatment  | The use of silicone three-proof paint, evenly brushed on one side of the PCB circuit, can effectively prevent moisture, salt spray, anti-static, anti-mildew, and other characteristics |
| Power consumption      | $\leq 150\text{W}$                                                                                                                                                                      |
| Warranty Period        | 1 year                                                                                                                                                                                  |
| Waterproof level       | IP 54                                                                                                                                                                                   |
| Certified              | ISO 9001: 2015, CE                                                                                                                                                                      |

# NobTra LPR Traffic Radar Speed Sign

Size:



## APP setting

|                            |                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| Radar Direction            | two-way detection or two lanes                                                                              |
| Speed unit                 | km/h or Mile /h can be choose                                                                               |
| Communications             | Wifi                                                                                                        |
| Sensitivity                | 0-112 (The smaller the number, the higher the sensitivity)                                                  |
| Brightness                 | 1-10(1 is the darkest, 10 is the brightest, default is 5)                                                   |
| Speeding records           | Speeding records can be extracted and saved in EXCEL and TXT formats (up to 20,000 records can be recorded) |
| Overspeed value            | 1-400 can be set                                                                                            |
| Interference coefficient   | 1-112 (the smaller the value, the worse the anti-interference)                                              |
| Multi-machine coordination | up to 8 units                                                                                               |
| Angle compensation         | 0-90 degrees                                                                                                |

## Power Options

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Solar Panel Options   | 60W                                                                |
| Battery               | 3pcs*13ah lithium battery ( advise you buy it in your local market |
| Continuous rainy days | 7-10 days(Depends on the traffic volume at the intersection        |

## Product Specification

|                         |                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------|
| Working voltage         | Solar powered DC12V                                                                                    |
| Radar working frequency | 24.125 GHz or 24.200 GHz                                                                               |
| Detection speed range   | 1-250KM/H                                                                                              |
| Detection distance      | Standard 200Meters (100meters , 50meters )                                                             |
| Strobe                  | Dual Strobe and Single Strobe                                                                          |
| Internal                | SS300 Doppler (FCC approved)                                                                           |
| Output Power (EIRP)     | 20dBm                                                                                                  |
| Antenna Angle           | Horizontal: 30° , Pitch: 16° (3dB Beamwidth, Actual Detection Angle Greater Than 4 Lanes)              |
| Speed measurement error | ±1 to ±3 KM/H (when the angle between the direction of motion and the radar beam azimuth is 0 degrees) |
| Radar response time     | ≤50ms                                                                                                  |

## 130KM speed LPR unit



|                                        |                                     |                                                                                                                                                                              |
|----------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Working Voltage                        |                                     | 100-240VAC/12VDC                                                                                                                                                             |
| Power Consumption                      |                                     | <5W                                                                                                                                                                          |
| IP Rating                              |                                     | IP65                                                                                                                                                                         |
| Working Temperature                    |                                     | -30° ~+65°                                                                                                                                                                   |
| Overall License Plate Recognition Rate |                                     | >97%                                                                                                                                                                         |
| No license plate detection rate        |                                     | >99%                                                                                                                                                                         |
| Anti-counterfeiting rate               |                                     | >99%                                                                                                                                                                         |
| Recognition Algorithm                  | Recognition angle                   | Maximum left and right 65° , up and down 60°                                                                                                                                 |
|                                        | Vehicle Speed                       | >97%                                                                                                                                                                         |
|                                        | recognition distance                | 18m~35m                                                                                                                                                                      |
|                                        | Vehicle Speed                       | 130km/h                                                                                                                                                                      |
|                                        | Lane Management                     | Single Lane                                                                                                                                                                  |
|                                        | License Plate Recognition Types     | Can recognize license plates from Taiwan, Brazil, Singapore, Vietnam, Malaysia, Europe, Thailand, Hong Kong, Macau, Chile, Colombia, South Africa, Dubai and other countries |
|                                        | Recognizable License Plate Features | Number, Color, Type, Width                                                                                                                                                   |
|                                        | License Plate Whitelist             | Supports accurate and intelligent fuzzy matching of whitelist license plate rules                                                                                            |
|                                        | Smart Calibration                   | Supports precise or wildcard-based intelligent calibration for license plate numbers, license plate types, and colors.                                                       |
| Imaging                                | Basic Configuration                 | Embedded Intelligent ISP Algorithm                                                                                                                                           |
|                                        |                                     | Intelligent Optimized Dimming Algorithm, Intelligent Adaptation to Complex Scenes                                                                                            |
|                                        |                                     | Basic parameters (brightness/sharpness/gain/exposure time, etc.) can be individually configured                                                                              |
| Video                                  | Video Compression Standard          | H. 264/MJPEG;                                                                                                                                                                |
|                                        | Video Resolution                    | 352*288、704*576、1280*720、1920*1080                                                                                                                                           |
|                                        | Compressed Output Bitrate           | 384Kbps~4Mbps                                                                                                                                                                |
|                                        | Frame Rate                          | 1-25 frames, defaulting to 25 frames.                                                                                                                                        |

## 130KM speed LPR unit



|            |                        |                                                                 |
|------------|------------------------|-----------------------------------------------------------------|
| imaging    | Sensor                 | 3 Megapixel Starlight CMOS                                      |
|            | Resolution             | 2304*1296                                                       |
|            | Low Light              | 0.1LUX Color                                                    |
|            | Electronic Shutter     | 0-10ms, defaulting to 5ms                                       |
|            | Standard Lens          | 5-50mm Zoom                                                     |
|            | Image Settings         | Brightness, Gain, Exposure Time                                 |
| Indicator  | Noise Reduction        | Supports 2D/3D Noise Reduction                                  |
| Interface  | Network Interface      | 1 Port 10/100Mbps Adaptive RJ45 Interface                       |
| Button     | IO Output              | 2-channel Output                                                |
|            | IO Input               | 4-channel Input (Default Switching, Switchable to Level Signal) |
|            | RS485                  | 2channels                                                       |
|            | TFCard                 | 1 TF Card Slot, Supports up to 64GB Capacity                    |
|            | USB                    | Reserved 4-pin_1.25 Spacing Socket                              |
|            | Reset Button           | 1 RESET Reset Button                                            |
|            | System Indicator Light | 1 GPIO Status Indicator Light                                   |
|            | Static Electricity     | Contact 6KV, Air 8KV                                            |
|            | Surge                  | Surge Voltage 2KV                                               |
|            |                        | Interface Surge 6KV                                             |
| Structure  | Fill Light             | Built-in Infrared LED Fill Light, Adjustable Brightness         |
|            |                        |                                                                 |
| Parameters | Exterior Dimensions    | Whole Machine: 443mm146mm105mm                                  |

## Display unit



|                   |                                         |
|-------------------|-----------------------------------------|
| Application       | Outdoor                                 |
| housing size      | 700*700*109MM                           |
| Brightness        | 6500nits                                |
| Working voltage   | 100-240VAC or 9-18VDC                   |
| Viewing angle     | 140                                     |
| Color             | Red and Green                           |
| Pixel             | 10mm                                    |
| Power consumption | 5V@40A                                  |
| Display           | LPR/message/PM                          |
|                   | Vehicle Speed                           |
|                   | Warning message/PM                      |
| IP rating         | IP54                                    |
| W. G              | 20.06 KG                                |
| carton size       | 700*700*140MM<br>(275.5*275.5*55' inch) |

## fill light



|                                                                    |                                                                                     |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Light Source Type                                                  | High-power white LED imported from original factory                                 |
| Number of LED Chips                                                | 16 pieces                                                                           |
| Color Temperature                                                  | 6000K~6500K (optional 3000-4500K)                                                   |
| Angle                                                              | 10° (optional 40°)                                                                  |
| Coverage Range                                                     | Single lane                                                                         |
| Optimal Fill Light Distance                                        | 16 meters to 25 meters                                                              |
| Trigger Method                                                     | Switch quantity trigger                                                             |
| Trigger Signal                                                     | Green + Blue -                                                                      |
| Response Time                                                      | ≤20us                                                                               |
| Day-Night Function                                                 | Optional with light control induction (light off during the day, light on at night) |
| RS485 Interface                                                    | 1 channel, supports connection to PC or camera (optional)                           |
| Synchronization Interface                                          | Green + Blue - switch quantity signal                                               |
| Design Lifetime                                                    | ≥50000 hours                                                                        |
| Housing Material                                                   | Die-cast aluminum                                                                   |
| Power Supply                                                       | Low voltage DC12V Red + Black -                                                     |
| Power                                                              | Not greater than 36W (actual power depends on control method)                       |
| PowerNot greater than 36W (actual power depends on control method) | Operating temperature -20° C to +70° C, operating humidity 10% to 90%               |
| Protection Level                                                   | IP66                                                                                |
| Dimensions                                                         | 130mm (W) × 190mm (H) × 130mm (D)                                                   |

Application:

