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TR - 100 200

Digital Software-Driven Traffic Radar Unit

ANPR Automatic Number Plate Recognition

Mobile, Fixed, and Portable

Bi-direction radar

Mobile, Fixed, and Portable

Flash White or IR invisible
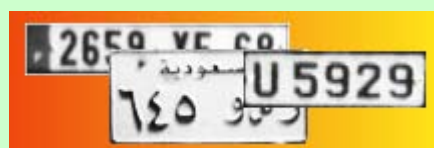
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The TR series are Doppler-based radar employing high-resolution camera and latest Vision technology software to accurately and automatically capture offenses, read License plates.

The TR series utilizes touch-screen technology and intuitive software interface, requiring minimal computer experience. With capacities for both mobile and stationary installations, the TR Series is the ultimate traffic-monitoring solution for law-enforcement agencies.

Features:

- 23x optical Zoom lens Color Camera
- Doppler-Radar 24.165 GHz, K-Band
- Accurate License Plate Capture (day/night effectiveness)
  TR -100 TR-200
- ANPR English, Spanish, and Arabic License Plate Recognition
  TR-200
- Moving/Stationary Doppler radar speed
- Advanced Power Control for long life operation
- Superb direction sensing capacities (approaching/departing vehicles, opposite/same-lane vehicles)
- Large LCD touch-screen display with intuitive user-friendly software and full text display
- Software with Multi- Language Interface English, Spanish, and Arabic

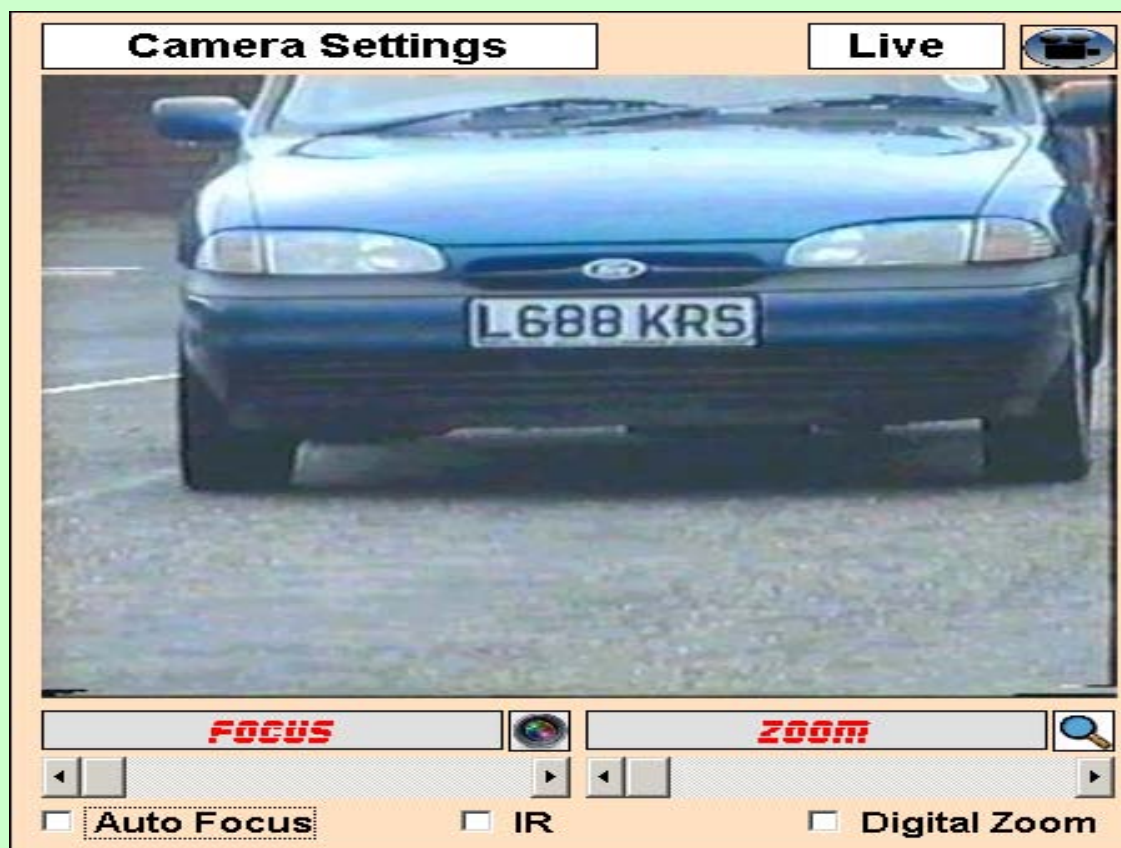Made In USA

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Mechanism of Operation:

The **TR 100/200** implements a Doppler K- Band Antenna for the detection of approaching, departing, or bidirectional traffic. The system is fully operational day and night (24x7) by means of a high resolution 5 Megapixel Hi resolution Color Camera.

with built-in zooming, controlled via the operating software, SpeedyVision Adjustment of all camera settings (zooming, focus, sensitivity, and light adjustment) is only a finger-tip away with the push of a button. The SpeedyVision eliminates the need for a professional photographer to manually set the lens.

The TR-Series automatically captures offences and generates electronic case files. During deployment, when an offence is captured, the image is immediately displayed on the screen. Previous offences may be recalled for review. The TR-Series features powerful software,SpeedyVision. The SpeedyVision authenticates each image, with all the violation details, and applies code-encryption to safeguard the primary evidence against alteration. The Violation's data is also imprinted on the picture of the violating vehicle so that it is impossible to change. The encrypted image and data are then stored into removable media, for later processing and ticketing. The data can also be automatically downloaded to the Citation-issuing office using high-speed VPN and the internet. Each digital image is imported with the following data:

1. date
2. time
3. location description
4. operator code
5. detected vehicle speed
6. and the zoned speed for the area

The TR features a powerful software,SpeedyVision which can upload captured images from the radar to the citation-issuing pc where they can be retrieved from the image database by browsing date, location, or operator. SpeedyVision also allows you to make some picture enhancements such as brightness adjustment, zooming, adjusting blurring, and developing picture negatives. In case of approaching cars, you can also drag the plate box number and the driver face in a single caption.

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Camera Settings   **Live**

FOCUS   ZOOM

☐ Auto Focus   ☐ IR   ☐ Digital Zoom

Night Operation:

For reliable night operation, The CCD camera is assisted by a robust and powerful flash Model LR-100 that employs the use of top notch "High Performance" technology. The flash model employs White-Light LED illuminators that can illuminate the scene of the violation to a distance of 50 meters. The LED illuminators can also be triggered to more than 5 times per second.

Another alternative for reliable night operation is the Infra Red Flash Model IRR-100. The IRR-100 performs similarly to the LR-100 but has the added feature of Infra Red
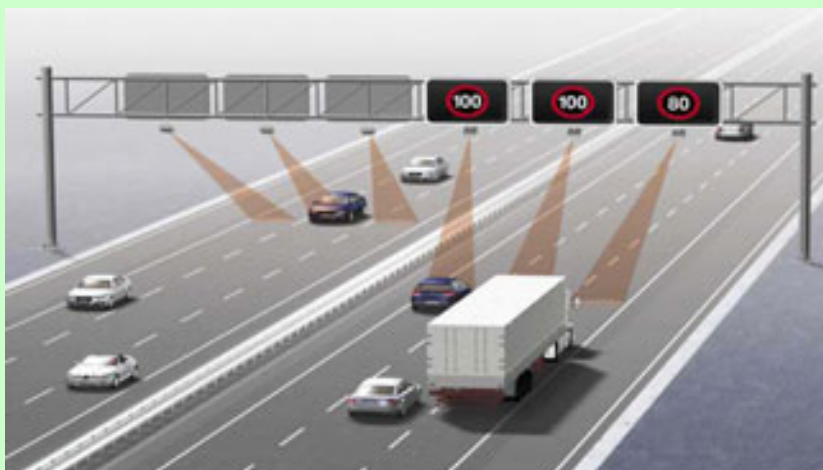
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Technology. During night operations, The IRR-100 illuminates the scene for the camera without driver notification. The IRR-100 generates high quality black and white pictures to a distance of 50 meters and can be triggered more than 5 times per second.

Option2: Mobile Vehicle Installation

Option4: Portable Use

Option3: Overhead Permanent installation per lane

With many installation options, "flexibility" is TR's middle name!

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Radar Specifications

Antenna	
Antenna Type	Conical Horn aerial
Antenna beam width (3dB):	11° x 18°
Measurement principle:	Doppler-Radar
Radar frequency:	24.165 GHz, K-Band
Power output:	5 mW (100mW EIRP)
Type of detection:	Movement, selectable uni- or bidirectional
Installation angle:	27° from road side
Installation height:	over head: 5 m typ. lateral: 1 m typ.
Measurement range	10 km/h(6,5 mph) – 250km/h(156 mph)
Tolerance	v < 100 km/h (65mp/h) +/- 2 km/h, v > 100 km/h(65 mp/h) +/- 3 %

Camera	
Optical zoom	23x optical zoom lens (F 1.6 ~ 3.8, f = 3.6 ~ 88 mm)
Digital zoom	10x digital zoom
Motor-zoom/ Focus/ Iris	800,000 times
Focus	Auto/ Manual
IR-Cut Filter	Auto switching / Manual
Saved Image size	>600 kByte
Picture formatting	JPEG
No of images per violation	3
Image resolution	1024 X 1024

LCD Touch-Screen Display	
Display Area	12.1" Diagonal Touch screen
Colors	16.7 Million colors
Resolution	1024 X 1024
Pixel Pitch	0.24 x 0.24 mm
Contrast Ratio	150:1
Brightness	200 cd/m2
Outer Dimensions	292W x 225H x 17D mm

Flash	
White-LED Illuminator	LR-100
Infra-red Illuminator	IRR-100

Battery	
BT-55	12 V Aluminium cased battery box 55 AH for the full operation of the system
BT-90	12 V Black molded high density polyethylene battery box 90 AH capable of operating the system for more than 10 hours (when fully charged)

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Connectors and cables	
Data cable	5m (extendable to 16m) connecting touch screen with radar
Power cable	2.5m connecting radar and battery
Flash power cable	connecting Radar and flash
All Quick Coupling connectors are metal rated IP 65	

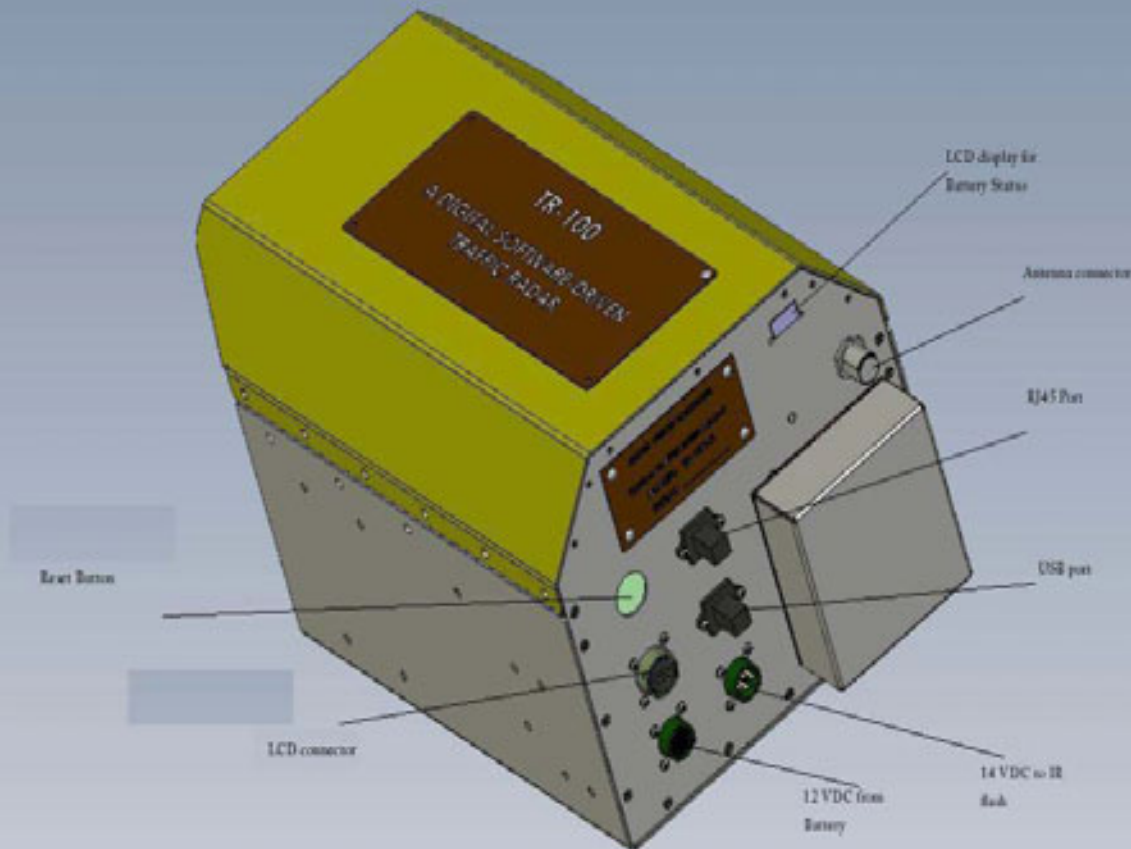| Embedded PC	
Operating System	Windows XP
Memory Capacity	Approx. 80,000 pictures (pending hard drive capacity)

How to Order?

The following are the TR100/200 models currently available to order from United Visions Solutions.

All TR models come equipped with TR-100 (basic unit), LCD touch-screen display, tripod, Speedy Vision software license (1/PC), flash, battery, battery charger, and carrying case.

- TR-100 License Plate Capture

- TR-200 ANPR Automatic Number Plate Recognition

- Back-office Speedy-Vision Software for Archiving, Editing, and Publishing speed limit violation citations

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Heavy Duty Tripod and Vehicle Mounting Kit
Battery Charger 110/220 Volt and Vehicle Charger
Heavy Duty Carrying case (two set) Military Grade

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Your Local Distributor: