



# VRS N50 IMAGING UNIT

## LOW-SPEED ACCESS CONTROL, PARKING AND SECURITY APPLICATIONS

The HTS VRS N50 imaging unit is the next generation 2MP IP camera with customized illumination for optimum LPR performance in low light and all weather conditions, for essential logistics and security performance.

The N50 provides precision and efficiency in low-speed access control, parking and security applications, including critical facilities for all reflective and non-reflective license plate types.

### Proven technology

The highly reliable compact N50 unit features state-of-the-art hardware along with powerful patented PC-based HTS license plate recognition (LPR) and See-Control management software. The hardware is optimized specifically for high performance with HTS software applications. For maximum effectiveness, the VRS N50 should be implemented with the HTS VRS Lane Controller, specifically engineered for optimum accuracy, confidence and vehicle recognition solutions.

HTS Imaging Units and value added HTS solutions are proven in over 40 countries worldwide, including the 50 states of the United States. Sophisticated HTS algorithms identify both the state and country of any license plate.

The N50's live IP video streaming extends functionality to real-time monitoring applications, providing both an image of the license plate and video stream of the event.

### Versatile integration

The VRS-N50 IP connectivity supports a distributed network of N50 imaging units over large single and multi-site applications. The N50 unit is controlled by a locally mounted HTS VRS lane controller, or the unit can be managed remotely.

Up to eight N50 units can interface simultaneously to a single HTS VRS Lane Controller for maximum efficiency, performance and cost-effectiveness.

### Simple management

The feature rich See-Control management system provides easy and flexible integration, installation and configuration, as well as valuable reporting, informative statistics and robust monitoring, along with powerful event and alarm management. It is fully web-enabled, supporting these functions from any standard browser.

## Hardware features

- Rugged compact 2M IP camera with live streaming for 24/7 operation
- Durable IP66 housing for outdoor or indoor applications
- Infrared, white or yellow illumination for all environments and license plate types
- Audio in and audio out jacks for immediate two way communication
- Power over Ethernet

## Software features

- Supports vehicle speeds up to 40 km/hour (25 miles/hour)
- Provides alerts in multiple message formats
- Features hardware and software (VMD) triggering capabilities
- Integrates via simple and friendly API based on Windows WCF and XML
- Transmits small data file for quick processing, low bandwidth and effective storage

# Specifications

### Camera

Sensor type	1/3" CMOS
Shutter type	Progressive scan (rolling shutter)
Lens	Vari-focal 9-22 mm
Effective pixels	1920 x 1080
Angle of view	9.8°~22.6°(diagonal)
Field of view	4.5 m (14.8 ft.)
Built-in Illumination	IR/white/yellow
Working distance	Up to 12m (39 ft)

### Operation

Video compression	H.264/MJPEG
Frame rate	25/30 fps
Web server	Yes (IE 8.0 or above)
Network protocols	IPv4, HTTP, TCP, RTSP/RTCP/RTP, ICMP, UDP, IGMP, DNS,
Audio in/out	DHCP, ARP, NTP, SNMP
Triggers	In/out (G.711-Alaw / G.711-Ulaw)
	Input/output

### Mechanics and Environmental

Dimensions	Φ11.5 cm x25.3 cm (4.5" diameter x 10")
Weight	1.25 kg (2.75 lb)
IP rating	IP66
Connectors	Network: RJ-45 connector Power input: removable terminal block Audio in/out: removable terminal block Alarm in/out: removable terminal block
Operating temperature	-40°C to 50°C (-40°F to 122°F) PoE -10C/14F
Power requirement	PoE IEEE 802.3af Class 0, AC24V
Power consumption	15W
Operating humidity	90%, non-condensing

### Safety and Regulatory Compliance

FCC	Class B
CE regulation	Class B