



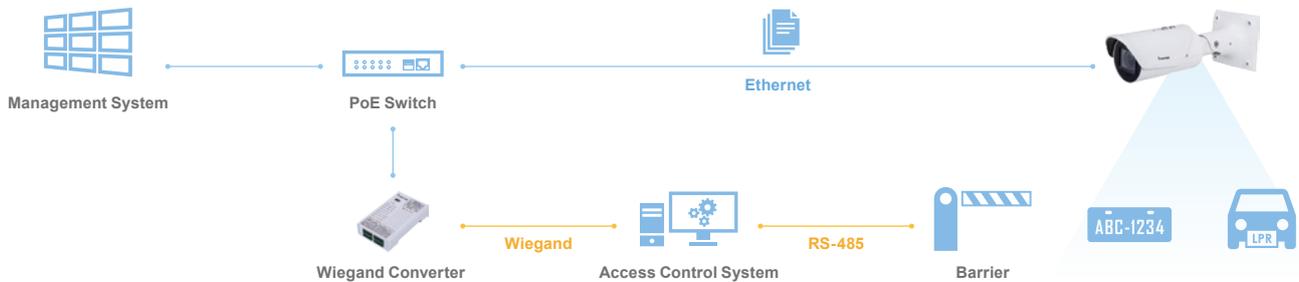
## Overview

The Wiegand protocol is commonly used in traditional access control systems, which grant access to drivers based on their badge with valid Wiegand ID numbers. In order to easily upgrade existing access control systems with the power of VIVOTEK LPR cameras, VIVOTEK's onboard ANPR software can link license plates to specific Wiegand ID numbers (eg. driver's badge). In the meantime, the VIVOTEK Wiegand converter can convert the Ethernet signal to Wiegand output signal in order to work with the existing access control system.

Moreover, with VIVOTEK's ANPR software, you can also easily configure a mapping list to link plate numbers to specific ID numbers and set specific actions to individual groups.

## Scenario

### Complex Scenario



## Technical Specifications

Model	AO-20W
<b>Hardware</b>	
TCP Server	10/100 Mbps Base T Ethernet <--> RS485 (Auto-detection by order: RS232, RS232+RS485)
Server Port 0	Baud rate: 2400 bps - 115200 bps Support TCP/Server, TCP/Client, UDP mode
Server Port 1	Baud rate: 2400 bps - 115200 bps Support TCP/Server, TCP/Client, UDP mode
Maximum Wiegand Output	Up to 96 bits
PoE	No
<b>General</b>	
Connectors	Digital input x 8 Digital output x 4: relay output x1 & digital output x3 (DO1, DO2 = WG data 1, data 0 when using Wiegand protocol)
LED Indicator	9 LEDs for power, communication
Power Input	DC 9 ~ 24V
Power Consumption	Max. 2W
Dimension	106.5 (L) x 66.3 (W) x 27.7 (H) mm
Weight	86 (±5) g
Safety Certifications	FCC, CE, RoHs
Operating Temperature	Starting Temperature: -25°C ~ 85°C (14°F ~ 185°F) Working Temperature: -20°C ~ 65°C (-4°F ~ 149°F)
Humidity	Storage: 5% ~ 95% Working: 20% ~ 90%
Buffer	1K each channel
Surge Protection	Power: 30 Volt, bi-directional avalanche breakdown device RS485 6.5 Volt, bi-directional avalanche breakdown device 400W peak power dissipation Clamping time < 1 picosecond (theoretical)
Fuse Protection	Power PTC 150mA / RS485 PTC 30mA
<b>Software</b>	
Software Setting	701Server, 701Client HTTP web browser
Operating System	Windows 7/8/10 Win Server 2008/2012/2016
Watchdogs	Yes, build in watchdog for system error handling

## Dimensions

---

