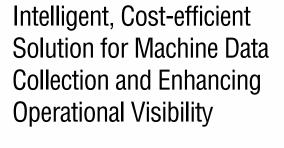
## **PATLITE**®



# **WD SYSTEM**

WIRELESS DATA ACQUISITION SYSTEM



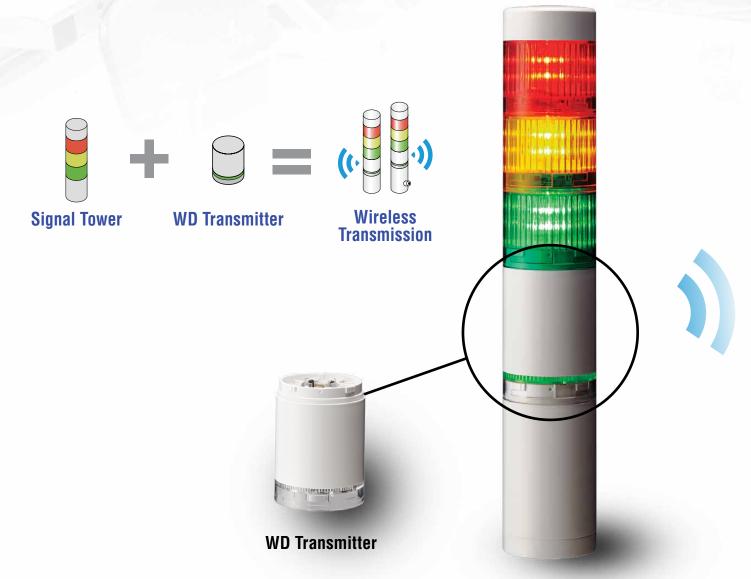


## **IIOT, INDUSTRIAL INTERNET OF THINGS**

A term that has become more than a buzzword but a way of the future.

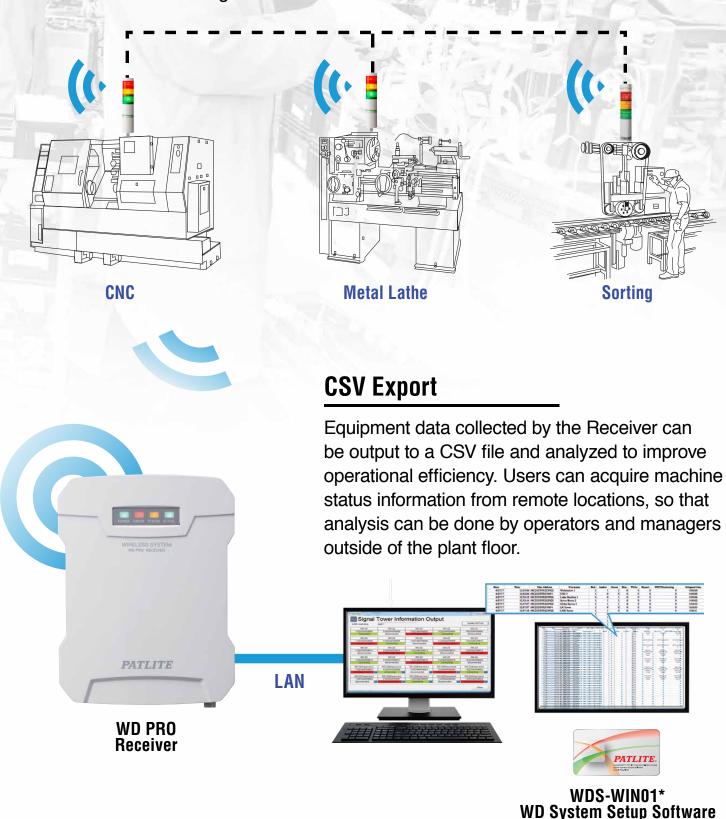
IIoT provides businesses with the ability to access and monitor plant-wide manufacturing data for operational visibility, predictive maintenance and interconnectivity among machines, components and people.

The WD System enables wireless data acquisition of equipment statuses, regardless of the machine's age or model. Users can obtain real-time statuses and monitor their equipment remotely. This data can be collected and analyzed to improve predictive maintenance, identify bottlenecks, and maximize OEE.



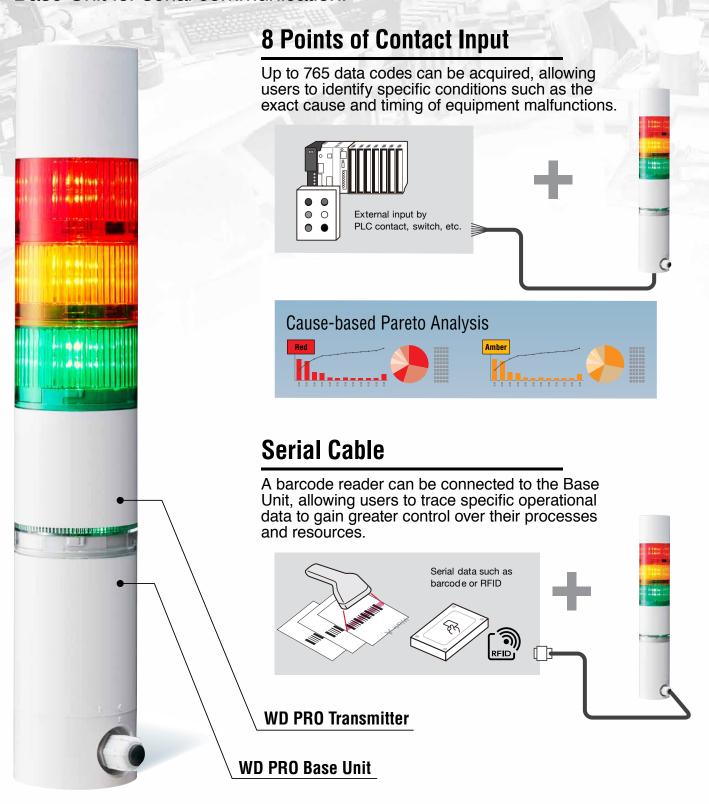
### **NETWORK-ENABLE YOUR MACHINES**

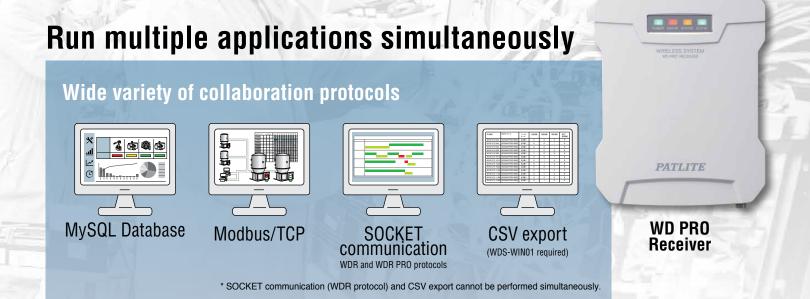
The WD System allows for seamless integration with your existing equipment. Simply attach a Transmitter to one of the compatible signal towers, and connect to a Receiver to start obtaining wireless data.



# ENHANCED FUNCTIONS WITH THE WD PRO SERIES

The WD PRO Series features additional data points and collaboration protocols for further visibility of devices within your network. It consists of an enhanced version of the Transmitter and Receiver, as well as a Base Unit for serial communication.





### **PoE Capability**

The WD PRO Receiver can access both power and data through a single Ethernet cable so that wiring space and costs can be minimized.



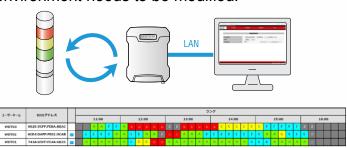
### **Device Setup Browser**

Connect the WD PRO Receiver to a PC via LAN cable to access the setup browser where various settings of the Receiver and Transmitter can be configured.

\*Not compatible with WDR PRO Lite model or when connected via USB.

### **Wireless Quality Diagnostics**

Displays the quality of wireless connection between the Receiver and Transmitter(s) using a 5-level evaluation system. Up to 72 hours of diagnosis data can be recorded so users can determine when and where the installation environment needs to be modified.

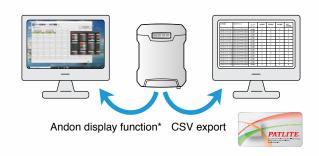


<sup>\*</sup> Diagnostics occur every 10 minutes during long-period sessions.



### **Andon Display**

Real-time light and buzzer statuses of all connected signal towers can be displayed onto your computer screen. This can be done simultaneously with the CSV data collection.

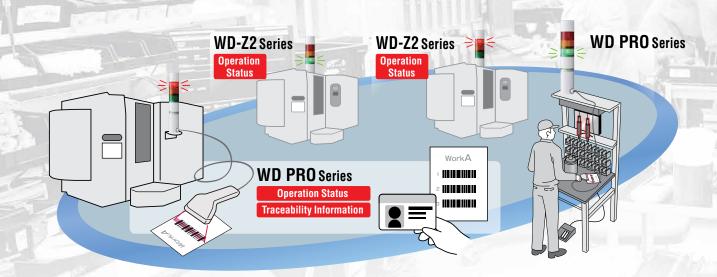


This function is not available for WDR PRO Lite models (WDR-LE-Z2-PRO-L).

•

<sup>\*</sup> During diagnostics, a large amount of data is processed which may affect the data acquisition function.

## STANDARDIZE OPERATIONAL MONITORING WITH THE WD SYSTEM



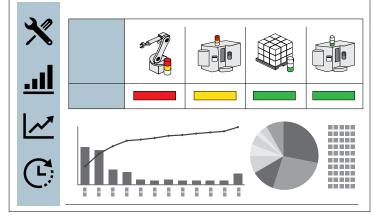
### **CASE STUDY 1**

#### **BEFORE**

Production bottlenecks caused by machine down time and uneven production flow are constant obstacles within our daily operations. To address this issue, we are manually creating daily machine reports which are tedious and inaccurate.

#### **AFTER**

The WD system enables us to monitor our production line in real-time, quickly identify bottlenecks and address them. We can also determine the severity of machine issues for more effective predictive maintenance.



### **CASE STUDY 2**



#### **BEFORE**

We operate several manufacturing facilities in different locations and have no system in place to remotely monitor machines in real-time. Our goal is to share information among our facilities to improve company-wide productivity.

### **AFTER**

The WD System allows us to monitor all of our production lines in different locations remotely and in real-time. Analyzing equipment data from one location helped us to identify machine errors before they occured in other locations.

### **WD Transmitters** \* All current Transmitters are compatible with all current Receivers

		Transmitter WDT-6M/5E-Z2	Transmitter WDT-6LR-Z2	Transmitter WDT-5LR-Z2	WD PRO Transmitter WDT-6LR-Z2-PR0	Contact Input - Serial Communication Base WDB-D80S-PRO
						C
	Compatible models	LME/LE Signal Tower	LR6 Signal Tower	LR5 Signal Tower	WDB-D80S-PR0	WDT-6LR-Z2-PRO LR6 Signal Tower
	Max separation of Transmitters	20m	20m	20m	20m	
	Current consumption	Max 30mA	Max 55mA	Max 55mA	Max 110mA	
	Contact input	_	_	_	8 points of contact	
	Serial cable	_	_	_	<b>∨</b>	

## **WD Receivers** \* All current Receivers are compatible with all current Transmitters

Receiver

### **WD** Software

WD System Setup Software WDS-WIN01

Receiver Receiver - Lite version

WDR-L-Z2-PRO



WDR-LE-Z2





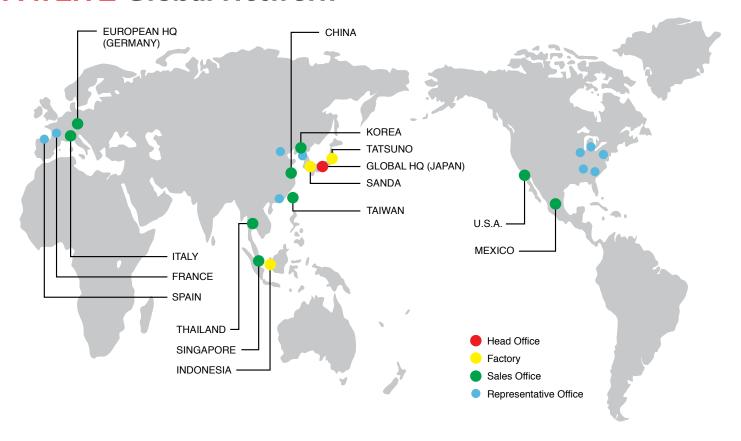
WDR-L-Z2-PRO-L



Transmitter connection	Max. 20 Transmitters	Max. 30 Transmitters	Max. 30 Transmitters
Communication distance	20m	30m	30m
Communication to application	Socket (WD-LR)	Socket (WD-LR) Socket (WDR-PRO) Data base Modbus / TCP	Socket (WD-LR)
Power	24V DC AC adapter USB BUS power	24V DC AC adapter USB BUS power PoE	24V DC AC adapter USB BUS power PoE
Transmitter setting	WDS-WIN01	WDR (Browser) WDS-WIN01	WDS-WIN01
Wireless quality self-check	_	<b>✓</b>	_
Simple ANDON web display	-	<b>✓</b>	_

System Requirements						
Intel® Core™2 Duo 2.92 GHz or faster						
Memory: 4 GB or more						
Display: XGA resolution (1024 x 768) or higher						
500 MB for installation *Separate capacity for CSV output						
Browser: Internet Explorer® 11						
Operating System: Windows® 7, 8, Server 2012 R2, Server 2016						

### **PATLITE** Global Network



### PATLITE (U.S.A.) Corporation

20130 S. Western Ave. Torrance, CA 90501, U.S.A.

TEL.+1-310-328-3222 FAX.+1-310-328-2676 E-mail: sales@patlite.com

#### **PATLITE Corporation**

4-1-3, Kyutaromachi, Chuo-ku, Osaka 541-0056 Japan

International Sales Division

TEL.+81-6-7711-8953 FAX.+81-6-7711-8961 E-mail: overseas@patlite.co.jp

#### PATLITE (SINGAPORE) PTE LTD

No.2 Leng Kee Road, #05-01 Thye Hong Centre, Singapore 159086 TEL.+65-6226-1111 FAX.+65-6324-1411 E-mail: sales@patlite.com.sg

### PATLITE (CHINA) Corporation

Room 1102-1103, No.55, Lane 777, Guangzhong Road (West), ZhabeiDistrict, Shanghai, China 200072 TEL.+86-21-6630-8969 FAX.+86-21-6630-8938 E-mail: sales@patlite.cn

#### PATLITE Europe GmbH

Am Soeldnermoos 8, D-85399 Hallbergmoos, Germany

TEL.+49 -811-9981-9770-0 FAX.+49-811-9981-9770-90 E-mail: info@patlite.eu

PATLITE Korea co., LTD.

A-2603, Daesung D-POLIS, 606, Seobusaet-gil, Geumcheon-gu, Seoul, 08504, Korea TEL.+82-2-523-6636 FAX.+82-2-861-9919 E-mail: sales@patlite.co.kr

#### PATLITE TAIWAN co., LTD.

2F-1, No.215, Sec. 2, Chengde Rd., Datong Dist., Taipei City 10364, Taiwan (R.O.C.) TEL.+886-2-2555-1611 FAX.+886-2-2555-1621 E-mail: info@patlite.tw

PATLITE (THAILAND) co., LTD.
Olympia Thai Tower, 15th Floor 444 Ratchadapisek Road Samsennok, Huay Kwang Bangkok 10310, Thailand TEL.+66-2-541-5431 FAX.+66-2-541-5429 E-mail: sales\_150716@patlite.co.th

#### PATLITE MEXICO S.A. de C.V.

Plaza de La Paz No. 102, int. 712 Guanajuato Puerto Interior, Silao, Gto, C.P.36275, Mexico TEL.+52-472-748-9124 E-mail: ventas@patlite.com.mx

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#### **A** CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.