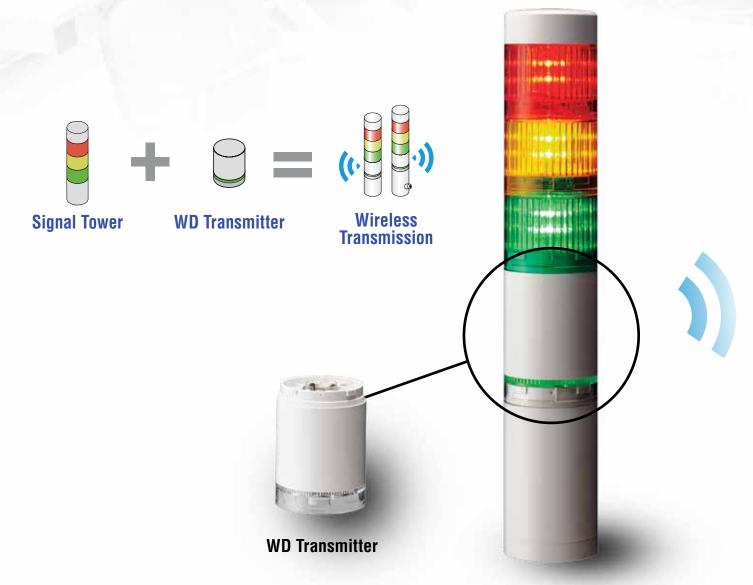


IIOT: INDUSTRIAL INTERNET OF THINGS

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

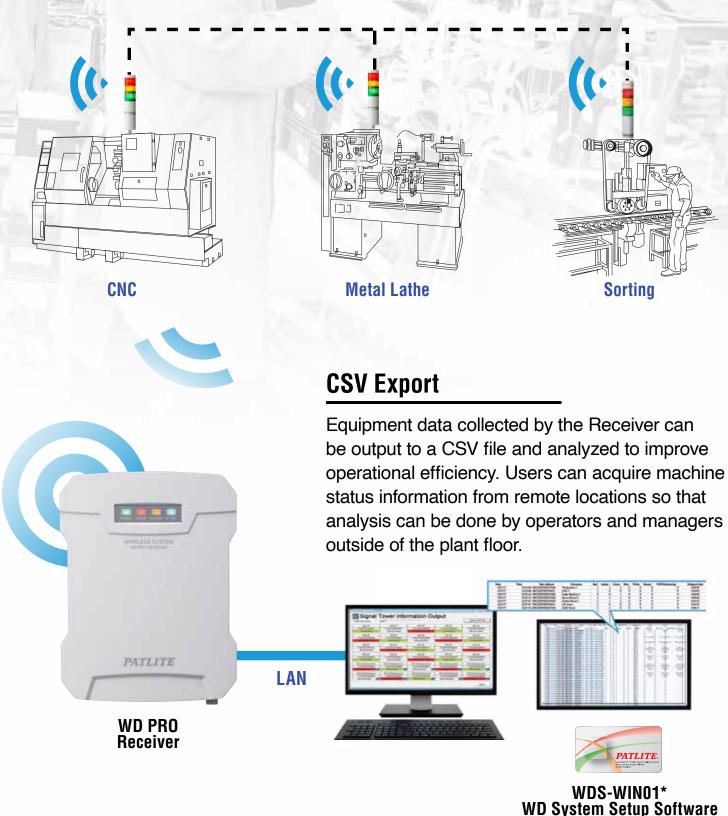
IIoT provides businesses with the ability to access and monitor plant-wide manufacturing data for operational visibility, predictive maintenance and interconnectivity among machines, components and people.

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.



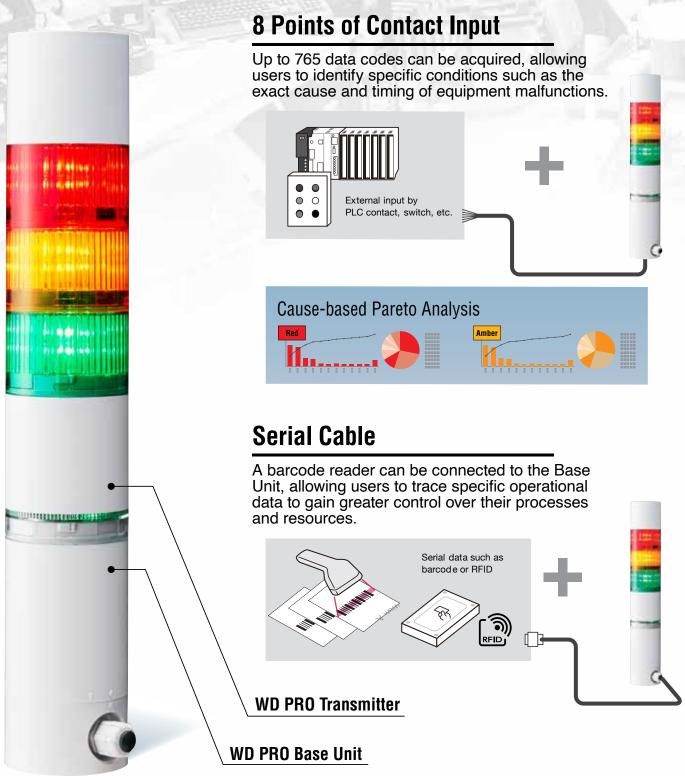
NETWORK-ENABLE YOUR MACHINES

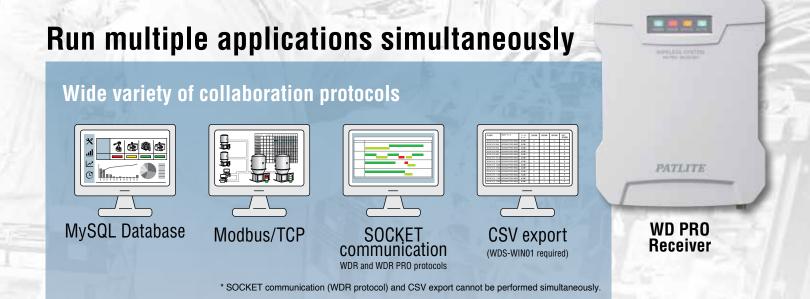
The WD System allows for seamless integration with your existing equipment. Simply attach a Transmitter to one of the compatible signal towers and connect to a Receiver to start obtaining wireless data.



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, reducing costs and wiring space as a result.

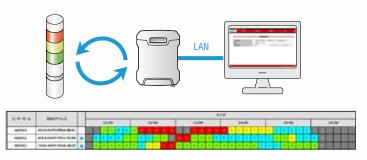
Device Setup Browser

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 the 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.



^{*} Diagnostics occur every 10 minutes during long-period sessions.

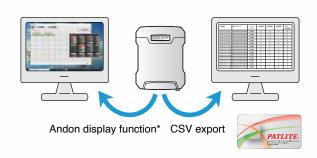
* During diagnostics, a large amount of data is processed which may affect the





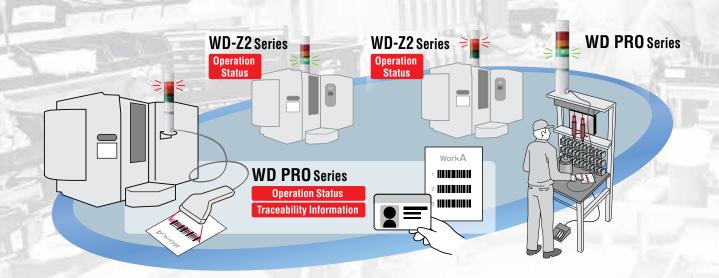
Andon Display

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



This function is not available for WDR PROLITE MODELS (WDR-LE-Z2-PRO-L).

STANDARDIZE OPERATIONAL MONITORING WITH THE WD SYSTEM



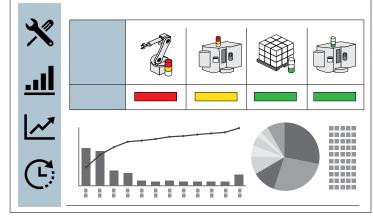
CASE STUDY 1

BEFORE

Production bottlenecks caused by machine downtime 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 identify machine errors before they occurred in other locations.

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

Transmitter

WDT-6M/5E-Z2

Transmitter

WDT-4LR-Z2

WDT-5LR-Z2

Transmitter

LME/LE Signal Tower Compatible WDT-6LR-Z2-PRO LR4 Signal Tower LR5 Signal Tower LR6 Signal Tower WDB-D80S-PR0 Max separation 20m 20m 20m 20m Current Max 30mA Max 55mA Max 55mA Max 110mA **Contact input** 8 points of contact

WDT-6LR-Z2

WD Receivers

Serial cable

* All current Receivers are compatible with all current Transmitters

Receiver - Lite version WDR-L-Z2-PRO-L

WDR-L-Z2-PRO





Transmitter connection	Max. 30 Transmitters	Max. 30 Transmitters
Communication distance	30m	30m
Communication to application	Socket (WD-LR)	Socket (WD-LR) Socket (WDR-PRO) Database Modbus / TCP
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
Wireless quality self-check	_	~
Simple ANDON web display	-	~

IWD Software

WD System Setup Software WDS-WIN01



Contact Input -

WDT-6LR-Z2-PRO WDB-D80S-PRO

Serial Communication Base

WD PRO Transmitter

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

litespire.io

System Monitoring App

Machine Visibility & Data Collection litespire Cloud Software



Third Party Software Contact litespire in

b-en-a

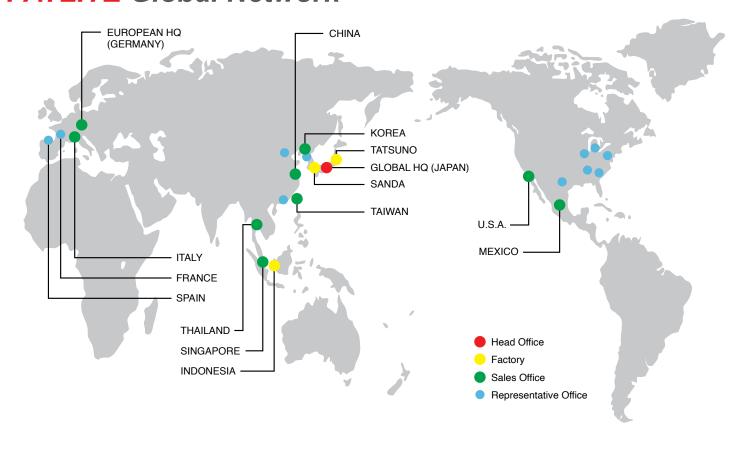
Machine Utilization Monitoring

Data Collection & Analysis mcframe Signal Chain



Third Party Software www henomoframe com

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