

**NEW!**

**vmax™ 44V**

**Up To 83% Faster!**



**LIVEWIRE™**

**Durable Production Performance**

**Cordless For Safety Critical Joints**

**Cleco®**

SP-1024EN 1110 7.5M

# The Most Cost-Effective Safe

## **Up To 50% Savings Over Traditional Systems!**

Mobility is a major advantage with wireless communications. Cleco LiveWire™ marries the freedom and flexibility of cordless tools with real-time wireless error proofing. Utilizing an industry standard 2.4GHz WLAN (Wireless Local Area network) interface in conjunction with the highest security encryption and authentication levels, plus a 512-cycle tool memory buffer, LiveWire™ ensures you will never compromise safety critical data transmissions.



**10  
LiveWire  
Tools.  
1 Line  
Controller.**





# Security Critical Solution Available.

## Up To 83% More Productivity!

Cleco LiveWire™ tools are now available with Vmax™, a solution that drives tool power and speed increases up to 83% without losing accuracy or durability. This leading innovation utilizes the same 10 tools to one line controller hardware solution with up to 50% cost savings over traditional systems. New Vmax™ technology auto-senses the applied power source and adjusts the maximum tool speed capability on the fly. LiveWire™ with Vmax™ combines the power you need with the most versatile wireless system available today.



FC



### Wireless Security

- WEP (Wired Equivalent Privacy)
  - 64/128 Bit Encryption HEX (RC4)
- WPA (Wireless Protected Access)/WPA2/802.11
  - 128 Bit TKIP/CCMP Encryption
  - 802.1x EAP Authentication
    - LEAP, PEAP, TTLS
    - GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS MSCHAPv2

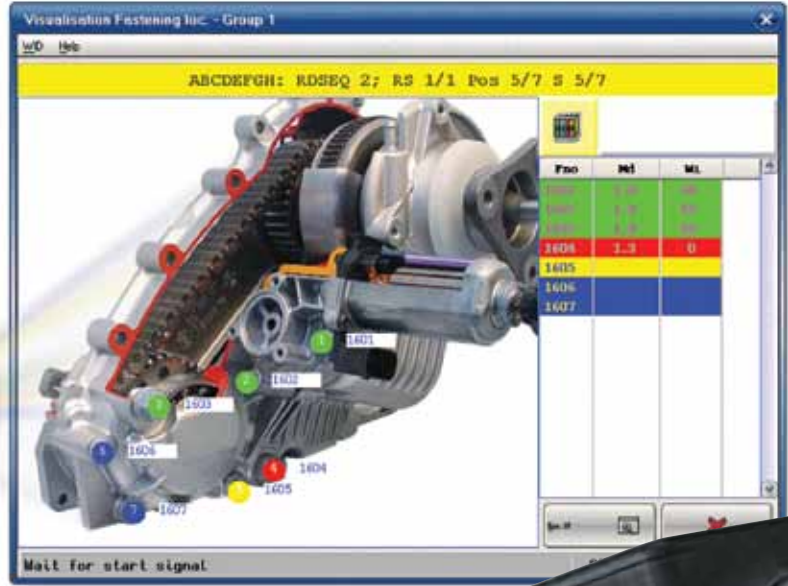


# All The Brains. All The Power.

LiveWire™ offers precision torque, angle and speed control features for safety critical fastening in an ergonomic, wireless design.

With up to 1,700 rundowns per battery charge or continuous power, your safety critical applications are assured to never run out of power.

LiveWire™ has been designed and tested to provide wireless connectivity across the harshest of machine-to-machine environments.



## Digital Audio Interface

- Operator audible alarm
- Programmable sound duration

## Digital Process Control

- Auto bolt sequencing
- Auto image selection
- Configurable reject management



## Electronic Intelligence

- On-board controller with power management
- Integrated servo with I/O signal handling
- Auto sensing power intelligence
- 512 cycle memory buffer





# Power. And It's Wireless.

## Integrated Bar Code Scanner (optional)

- Enables real-time bar code data collection
- Programmable bit for Auto Parameter Select
- Tool enable and disable configurability



Configurable LED Illumination



## Operator Display

- Real-time interface
- Redundant feedback
  - Green LCD = OK
  - Yellow LCD = Running
  - Red LCD = NOK / Errors
  - Green LED = OK
  - Red LED = NOK
- Configurable application buttons

## Modular Tightening System



One controller manages up to 32 tools simultaneously in varying combinations.

## Cordless Freedom

or

## Tethered Speed...



## The Choice Is Yours.



### 44V Li-Ion Battery Technology

- Up to 83% faster vs. 26V battery
- Up to 1,700 rundowns/charge (hard joint)
- Life > 800 charging cycles
- On-board intelligence
  - Charge level/cycles LCD
  - Diagnostics to a PC
- Single tab, one-hand removal



The cells and electronic balancing circuit are fixed to an internal cell holder to provide maximum durability.



Single tab removal



5 bar on-battery display for advanced feedback

Charge Cycles – Unplugged display

Display	Charge Cycles
■ ■ ■ ■ ■	0 – 199
■ ■ ■ ■ □	200 – 399
■ ■ ■ □ □	400 – 599
■ ■ □ □ □	600 – 799
■ □ □ □ □	> 800

Charge Level – Operational display

Display	Charge Level
□ □ □ □ □	Deep Sleep Mode or Defective
■ □ □ □ □	< 20%
■ ■ □ □ □	20 – 40%
■ ■ ■ □ □	40 – 60%
■ ■ ■ ■ □	60 – 80%
■ ■ ■ ■ ■	80 – 100%

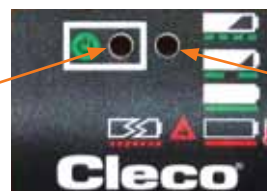
### 26V/44V Charger Technology

- Auto-sensing 26/44V
- One hour charge cycle
- Auto-sensing input (85-270) VAC
- Power/Status LEDs

Charger Display For Advanced Feedback

Power Supply

LED Display	Status
●	No Main Supply
●	Main Supply OK



Red/Green LED For Charge & Error

LED Display	Status
●	No Battery
● Flash @ .5 Hz	Charging, Level > 80%
● Flash @ 1 Hz	Charging, Level < 80%
●	Battery 100% Charge
●	Cell Over Temperature
● Flash @ 2 Hz	Battery Error (Short circuit, defective cell, etc.)



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