

WECO® Arrowboards



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Runs for years without intervention, and its batteries are completely maintenance free

- Maintenance-free batteries
- 80% less power consumption
- 80% less lead
- Sealed batteries will never leak or spill

W|ECO® Arrowboards feature the lowest power consumption in the industry. Innovative engineering employs a unique system that uses small, eco-friendly batteries to power high-output, energy-efficient LEDs. The result is a remarkable technology that benefits the environment without sacrificing performance.

Traditional arrowboard batteries can leak and spill their contents onto the ground, polluting the land and contaminating ground water. W|ECO technology is better for the environment because it allows the use of smaller, sealed batteries.

Smaller batteries means less lead content—80% less, when compared to traditional arrowboards. And W|ECO batteries require no maintenance, resulting in longer battery life and significant savings.

With an 80% decrease in power consumption over traditional solar arrowboards, W|ECO batteries take less time to charge—5 to 6 hours instead of 24—which not only saves energy but results in less downtime.

During the manufacturing process, powder coating emits near-zero volatile organic compounds (VOCs), and all over-spray is reclaimed and reused. Finally, nearly every component can be recycled.

More than just eco-friendly

W|ECO arrowboards are designed to meet and exceed the highest standards of quality and performance in the industry. High-output amber LEDs provide superior visibility, and the all-welded steel frame guarantees longevity.

Wanco's unique design fully supports the board with a single locking device that holds the board in place for transport and during operation. Folding-frame, vertical-mast and skid-mounted models are available.



Brief specifications

Board material	Aluminum sheet and welded channels
Frame construction	All-welded structural steel
Finish	Powder-coated and oven-baked
Controller	Self-contained solid-state electronics located in lockable weather-resistant aluminum enclosure
Display options	15-light and 25-light models provide up to 12 arrow display functions Automatic dimming is standard
Power system	Two sealed, leak- and spill-proof, 12-volt, 18Ah VRLA batteries are standard; three batteries are optional Up to 100 watts solar charging, solid-state voltage regulator, charge indicator; overcharge and deep discharge protection Includes PTC resettable fuses, reverse polarity protection, and low-voltage disconnect system Positive-drive voltage system applies voltage to lamps only when lit
Industry standards	Meets MUTCD

Next Generation **W|ECO[®] Arrow Board**



A different arrow board design improves usability and safety.

- Easier deployment with telescoping mast
- Display panel rotates freely, 360 degrees
- Provides a clear view of road workers
- Better towing with lower center of gravity

Designed for better usability and improved manufacturing, the new W|ECO® Arrow Boards feature a power and control system built into the display panel. This allows the arrow board to be rotated a full 360 degrees. The board is fully adjustable without moving the trailer.

A hand-operated winch allows one person to raise and lower the display panel. The arrow board can operate at any height. Because a single mast supports the display, people and objects behind the arrow board are much more visible than with traditional arrow boards, which obscure the view behind them. This improvement ensures greater safety for crews in the work zone.

In the travel position, the new arrow board has a lower center of gravity than other arrow boards, greatly improving stability during transport. A locking pin and transport cradle locks the display panel firmly in place. The arrow board remains upright at all times.



Travel position

Truck-Mounted Arrow Boards





Truck-mounted arrow boards provide an obvious solution for convoys, crash-cushion (TMA) trucks and emergency repair crews.

An invaluable traffic calming device, arrow boards play an essential role in keeping workers safe. Highly visible, easy to operate, rugged and dependable, Wanco Truck-Mounted Arrow Boards set the standard. Wanco's proprietary LED design provides wide angularity, exceptional visibility and outstanding energy-efficient operation.

The control panel, installed inside the cab, operates the arrow board display and electrically controlled tilt-frames. Wired and wireless controllers are available for most full-size models.

Wanco Truck-Mounted Arrow Boards come in four sizes with the industry's largest selection of truck- and trailer-mounting options. The largest size is available in three skid-mount models. Plastic arrow-shaped signs are also available.

Features

Full-size 15-light and 25-light models	Easy to operate and maintain
5, 7 or 12 display patterns	High-output LEDs provide superior visibility
Roof-top, bed and tailgate mounts	Flash rate of 30–40 per minute
Wired and wireless controllers	Controller located inside vehicle
Power- and manual-tilt options	Energy-efficient operation
Vehicle-powered or battery-powered with solar-based charging system	Positive-drive voltage system applies power to lamps only when lit
All full-size models meet MUTCD	Optional automatic dimming conserves power

Models with 25 lights feature 12 flashing and sequential patterns. Models with 15 lights feature either 7 flashing and sequential patterns or 5 flashing patterns.

Wanco vehicle-mount arrow boards come with a standard controller and a 15-foot length of cable, allowing the controller to be installed inside the vehicle cab. Custom lengths of cable are available upon request.

Wireless arrow boards feature an intuitive and easy-to-use touchscreen controller, which simplifies installation by eliminating the need to route the arrow board communications cable through the truck bulkhead.

Arrow Board Sizes

48 x 96 in.	122 x 244 cm
36 x 72 in.	92 x 183 cm
30 x 60 in.	76 x 152 cm
24 x 48 in.	61 x 122 cm
50 in. split arrows	

Mounting Options

- Manual-tilt (auto-lock) frame
- 180-degree power-tilt frame
- 90-degree power-tilt frame
- Low-profile 90-degree power-tilt frame
- Folding skid
- Low-profile folding skid
- Rigid (fixed-position) skid
- Tailgate bracket
- Truck-bed mount
- Customer-supplied mounting

Battery-powered arrow boards feature

WECO Technology
see back cover



Control panel, 12 arrow patterns



Control panel, 5 arrow patterns



Control panel, 7 arrow patterns



Touchscreen controller for wireless arrow boards

Power-Tilt Frames



24 x 48 in. arrow board with sealed-beam lamps

90° Power-Tilt Frame

The 90-degree tilt frame allows the board to face traffic, or to face downward when not in use. The control panel, installed inside the cab, operates the arrow-board display and tilt frame. An electric actuator tilts the frame.

	15-light, 5 patterns	15-light, 7 patterns	25-light, 12 patterns
48 x 96 in.	WFBP8-LA	WFBP8-LSA	WFBP8-LSAC
36 x 72 in.	WFBP6-LA	WFBP6-LSA	WFBP6-LSAC
30 x 60 in.	WFBP5-LA	WFBP5-LSA	WFBP5-LSAC
24 x 48 in.	WFBP4-LA (13-light, 5 patterns only)		



Low-Profile Power-Tilt Frame

When stowed, the low-profile tilt frame is less than 16 inches in height. An electric actuator tilts the frame, controlled with a switch on the arrow-board control panel.

	15-light, 5 patterns	15-light, 7 patterns	25-light, 12 patterns
36 x 72 in.	WLP90B6-LA	WLP90B6-LSA	WLP90B6-LSAC
30 x 60 in.	WLP90B5-LA	WLP90B5-LSA	WLP90B5-LSAC



180° Power-Tilt Frame

The 180-degree tilt frame allows the board to face oncoming traffic. The control panel, installed inside the cab, operates the arrow-board display and tilt-frame. An electric actuator tilts the frame.

	15-light, 5 patterns	15-light, 7 patterns	25-light, 12 patterns
36 x 72 in.	WFP180B6-LA	WFP180B6-LSA	WFP180B6-LSAC
30 x 60 in.	WFP180B5-LA	WFP180B5-LSA	WFP180B5-LSAC

Additional Mounting Options



Manual Tilt (Auto-Lock) Frame

The auto-lock frame allows the arrow board to be tilted manually. Pulling the spring-loaded locking pin releases the board, which can be tilted 90 degrees downward when not in use. The pin automatically locks the board into position.

	15-light, 5 patterns	15-light, 7 patterns	25-light, 12 patterns
48 x 96 in.	WFB8-LA	WFB8-LSA	WFB8-LSAC
36 x 72 in.	WFB6-LA	WFB6-LSA	WFB6-LSAC
30 x 60 in.	WFB5-LA	WFB5-LSA	WFB5-LSAC
24 x 48 in.	WFB4-LA (13-light, 5 patterns only)		



	15-light, 5 patterns	15-light, 7 patterns	25-light, 12 patterns
48 x 96 in.	WB8-LA	WB8-LSA	WB8-LSAC
36 x 72 in.	WB6-LA	WB6-LSA	WB6-LSAC
30 x 60 in.	WB5-LA	WB5-LSA	WB5-LSAC
24 x 48 in.	WB4-LA (13-light, 5 patterns only)		

No Mounting Kit

An arrow board without a mounting kit is ready to install on your own frame or brackets. All connections for wiring and controlling the arrow board are included.

Brief Specifications

Board size, H x W	Lamp size	MUTCD type
48 x 96 in.	PAR 46	C
36 x 72 in.	PAR 46	B
30 x 60 in.	PAR 36*	B
24 x 48 in.	PAR 36	A
All sizes		
Controller cable	Standard Optional Optional	15 ft. 4.57 m Custom length available upon request Wireless
Power supply	Standard Optional	Vehicle power External batteries and solar-based charging

*PAR 46 available for 15-light models.



Tailgate Mount

The tailgate mount allows the arrow board to be installed in a fixed position on any truck tailgate, either permanently or temporarily. Installation on the tailgate takes only a minute. The control panel, installed inside the cab, operates the arrow-board display.

	15-light, 5 patterns	15-light, 7 patterns	25-light, 12 patterns
48 x 96 in.	WVGB8-LA	WVGB8-LSA	WVGB8-LSAC
36 x 72 in.	WVGB6-LA	WVGB6-LSA	WVGB6-LSAC
30 x 60 in.	WVGB5-LA	WVGB5-LSA	WVGB5-LSAC
24 x 48 in.	WVGB4-LA (13-light, 5 patterns only)		



Truck-Bed Mount

The truck-bed mount is an accessory that allows the arrow board to be installed off the truck bed. Two triangular brackets bolt to the bed and support either the 90° manual-tilt or 90° power-tilt frame, raising it 31 inches.

Skid-Mounts



Standard Folding Skid

WSSP-LSA 15-light, 7 patterns
WSSP-LSAC 25-light, 12 patterns



Low-Profile Folding Skid

WSSP-LSA(LP) 15-light, 7 patterns
WSSP-LSAC(LP) 25-light, 12 patterns



Rigid Skid

WS1SB8-LSA 15-light, 7 patterns
WS1SB8-LSAC 25-light, 12 patterns

Full-size arrow boards (48 x 96) can be skid-mounted for installation a truck bed or on any rigid footing. Featuring an integrated power supply and W|ECO® Technology, these are the most energy-efficient and environmentally friendly arrow boards in the industry, able to operate for long periods without an external power source. A choice of models provides flexibility for almost any installation.

Skid-mount arrow boards feature

 Technology
 see back cover



Control panel, 12 arrow patterns



Control panel, 7 arrow patterns



Touchscreen controller for wireless arrow boards

Brief Specifications

Skid-mount arrow boards	Standard		Low-profile		Rigid	
Frame size, W x D	54 x 48 in.	136 x 122 cm	54 x 48 in.	136 x 122 cm	57 x 31 in.	144 x 78 cm
Board size, H x W	48 x 96 in.	122 x 244 cm	48 x 96 in.	122 x 244 cm	48 x 96 in.	122 x 244 cm
Operating height	120 in.	305 cm	87 in.	221 cm	77 in.	195 cm
Traveling height	75 in.	191 cm	44 in.	112 cm	77 in.	195 cm
Weight, approx.	540 lb	245 kg	520 lb	236 kg	320 lb	145 kg

Arrow-Shaped Signs



Arrow-Shaped Signs

- WSBLA-14 No frame
- WFBLA-14 Manual tilt (auto-lock) frame
- WFBLA-14L Low-profile frame

Wanco vehicle-mount arrow-shaped signs are constructed of heavy-duty ABS for rigidity and durability.

These signs feature the same ease of use as our other arrow boards, with standard or wide-angle LED lamps, and mounting options that include manually and electrically operated tilt-frames.

The control module has a wiring harness for mounting inside a truck cab.



Control panel



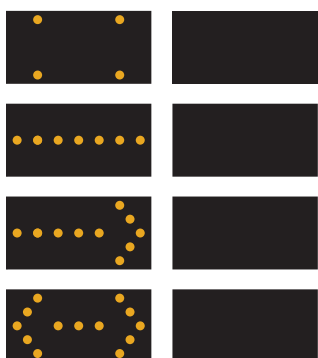
Low-profile power-tilt frame

Brief Specifications

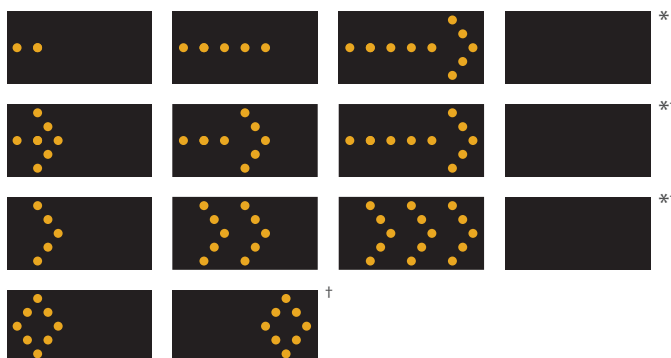
Arrow-shaped boards		
Arrow pair size, W x H	50 x 29 in.	127 x 72 cm
Cable length	15 ft.	4.57 m
Power supply	Vehicle alternator	

Arrow Board Display Patterns

Flashing patterns



Sequential patterns



*Left or right †25-light models only

Wireless Arrow Boards



Wanco wireless arrow boards are designed specifically for systems that are required to be on and off the vehicle.

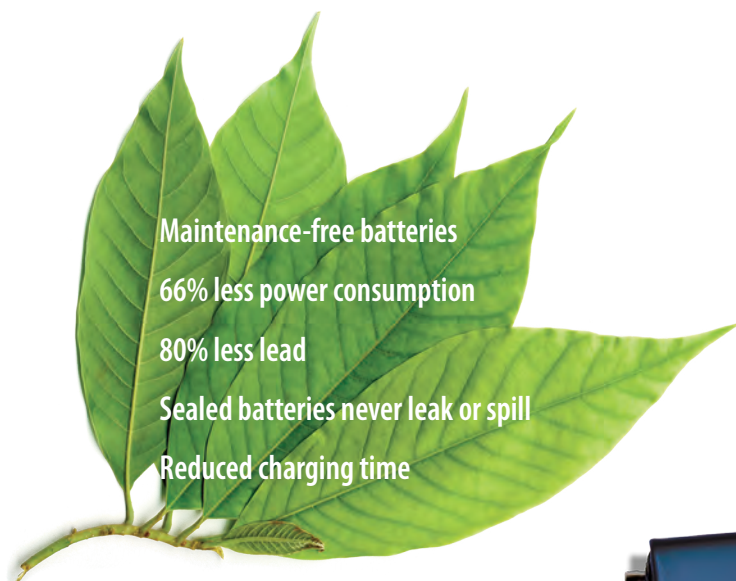
Wired to power only, the arrow board and controller “talk” wirelessly using 900 MHz

RF transmission for a reliable connection. No cables or wires need to be routed into or out of the truck cab. With the W|ECO power system, the arrow board can even be installed on a trailer.

The appealing design of Wanco’s wireless controller features large, colorful graphics on a bright, 4-inch, touchscreen display. Intuitive screens are easy to use, and instant response means no delay after making your selection.

The pattern on the arrow board is displayed in a large animation on the main screen. Additional screens let you choose a display pattern and operate the power-tilt frame (if installed), view system health including voltage levels and alarms, and choose configuration options.

The controller “knows” the arrow board it is connected to, and shows you only the functions available for that board. Setup functions allow you to narrow some of those choices if desired.



Maintenance-free batteries

66% less power consumption

80% less lead

Sealed batteries never leak or spill

Reduced charging time



WECO® Technology

So energy efficient, it can run on 9 volts.

How does it work? W|ECO products use Wanco's exclusive LED lights, which consume a fraction of the power of traditional LEDs. For example, a W|ECO arrow board will operate efficiently on a 9-volt battery for several hours.*

Imagine how well it works with W|ECO batteries.

W|ECO technology consumes less power and uses smaller batteries, resulting in greatly reduced lead content—80% less, when compared to traditional arrow board batteries.

Additionally, W|ECO batteries are fully sealed and will not leak or spill, which is better for the environment. And because they require no maintenance, they have a longer useful lifespan, saving costs associated with replacement.

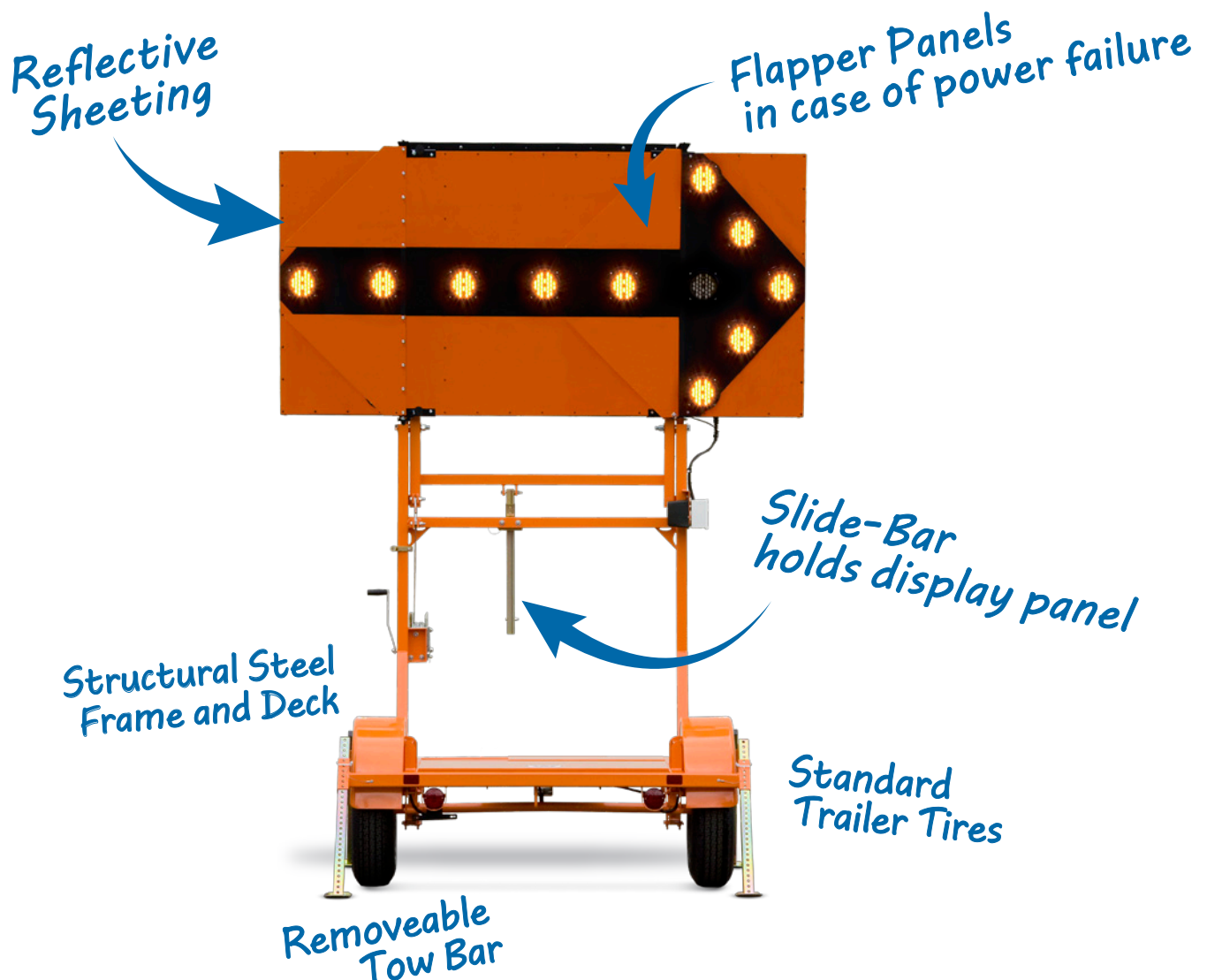
With a decrease in power consumption, these batteries take less time to charge—5 to 6 hours instead of 24—which saves valuable resources and results in less downtime.

*According to internal testing. 9-volt battery not recommended for street use.



Wanco® 15-Light Portable W|ECO® Arrow Board

- Super-bright LED display
- 7 display patterns
- Energy efficient eco-friendly operation
- Large display is MTO approved
- Maintenance-free batteries



Features

Environmental

- Maintenance-free batteries
- Consumes 80% less power than other solar arrow boards
- Smaller batteries have 80% less lead content
- Sealed batteries will not leak or spill
- Decreased charging time saves energy and downtime
- Manufacturing process emits near-zero VOCs
- Nearly every component can be recycled

Functional

- High-output amber LEDs legible up to 1 mile (1.6 km)
- Fully MTO compliant
- 15 lamps with 7 arrow display modes
- Easy to operate and maintain
- Heavy-duty hand-winch with safety brake allows one person to raise display panel
- Single locking device holds display panel in place while operating and during transport
- Controller located safely away from traffic
- Weather-resistant control box cover, lockable slam-latch
- Control box outputs have short-circuit protection, helping prevent blown transistors
- Positive-drive voltage system applies power to lamps only when lit
- Power system includes resetting dual circuit breakers, reverse polarity protection, and low-voltage disconnect
- Solar charging system features solid state voltage regulator with charge indicator
- Arrow display has automatic and manual dimming, with flash rates of 30 to 40 per minute
- In travel position, unique design supports board without rear braces, reducing possibility of damage during transport
- Durable powder-coat finish resists the elements
- Meets MUTCD
- NTPEP tested

Brief specifications

Display

Lights	Amber LEDs, 15 on front, 2 on back
Legibility	1 mile (1.6km) max. legible distance
Winch	Hand-operated, raises and lowers display
Standards	Meets MUTCD Type C, MTO-approved

Construction

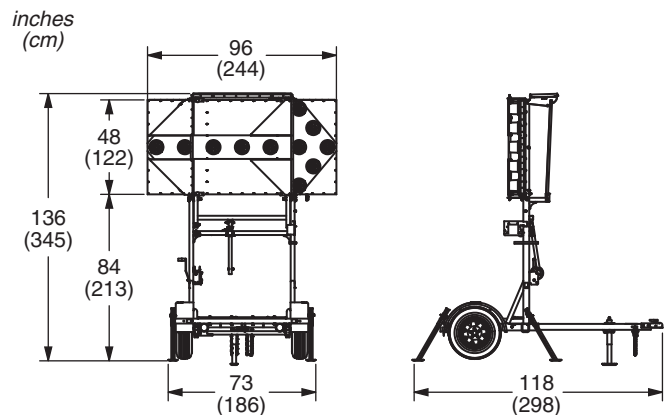
Trailer	All welded structural steel
Display cabinet	Aluminum sheet and welded channels
Finish	Powder-coated and oven-baked
Axle assembly	2000 lb. (907kg) capacity with 5-on-5.5" B.C. idler hub
Tires	ST205/75D15 trailer tires

Power*

Batteries	Two leak- and spill-proof, valve-regulated lead acid (VRLA)
Battery capacity	48 Ah total
Battery voltage	12 Vdc
Solar panel	55 W

**Standard power; many options available. Contact factory for details.*

Dimensions



Travel height: 91 in. (230cm)

Weight

Approx. 1000 lbs. (453kg)



Wireless Arrow Boards



Easy to install. Easy to use. The wireless solution from Wanco.

- 900 MHz wireless communication
- Wireless touchscreen controller
- Best arrow boards in the business
- Widest choice of mounting options
- Easy to install and easy to use

Designed specifically for systems that are required to be on and off the vehicle, full-size Wanco Wireless Arrow Boards are available in three sizes, 15- and 25-light, with a wide selection of mounting options that include power-tilt frames.

Wireless communication uses XBee® technology at 900 MHz for a reliable connection between the controller and the sign. While this frequency benefits from relatively low traffic and excellent penetration, data encryption further ensures successful and accurate pairing and virtually zero latency means instant response.

The appealing design of Wanco's controller features large, colorful graphics on a bright, four-inch, touchscreen display. Intuitive icons are easy to use, and all arrow board functions can be managed with Wanco's wireless controller, including power-tilt-frame operation and system diagnostics. The pattern on the arrow board is displayed in a large animation on the main screen. Tilt operation is animated on the tilt control screen.

The compact controller mounts inside the vehicle cab using a fully adjustable suction-cup mount, just like GPS systems you are already familiar with. A permanent mounting bracket is also available, or you can use any mounting device with a standard threaded camera-type mount. The controller is powered from the vehicle's power outlet/cigar lighter and can be hard-wired.

Brief specifications

Arrow board size	Lamp size	MUTCD type
30 × 60 in	PAR 36*	B
36 × 72 in	PAR 46	B
48 × 96 in	PAR 46	C

*PAR 46 optional for 15-light models

Power supply—all arrow board sizes

Standard	Vehicle power
Optional	External batteries and solar-based charging

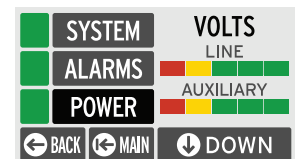
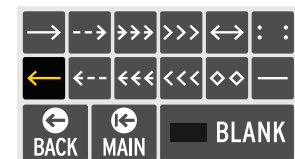
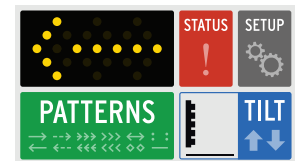
Arrow board sizes

48 x 96 in.	122 x 244 cm
36 x 72 in.	92 x 183 cm
30 x 60 in.	76 x 152 cm

Mounting options

Manual-tilt (auto-lock) frame
180-degree power-tilt frame
90-degree power-tilt frame
Low-profile 90-degree power-tilt frame
Tailgate bracket
Truck-bed mount
Customer-supplied mounting

Sample control screens



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