FORIDO Optoelectronic Technology Co., Ltd.
Traffic light Specifications

serial number	Brand	Product Model	Brand name	specification	Reserve injection
1.1	**FORIDO**	FRD-TL-202	Traffic lights	Includes: lamp, brim, hoop, right angle Product size: 540*280*150mm Mask specification: φ200mm Mask material: glass Shell material: PC material Surface treatment: black spray matte LED quantity: red 78, yellow 78, green 78 LED wavelength: red: 625nm; green: 505nm LED diameter: φ5mm Single tube current: <18mA LED life: ≥70000 hours Insulation resistance: ≥500MΩ Dielectric strength: ≥1440V Center light intensity: 400 ~1000 cd Visual distance: >450m Visual angle: >30° Working voltage: AC 220V±44V, 50HZ Power: power ≤20W Working temperature: -40 ~ +80℃ Relative humidity: ≤93% Protection level: IP53 Weight: 9kg	
1.2	**FORIDO**	FRD-TL-303	Traffic lights	Includes: lamps, brim, decorative edge, back rod bracket (diameter: 100-300mm) Product size: 1178*400*150mm Mask specification: φ300mm Mask material: glass Shell material: PC material Surface treatment: black spray matte LED quantity: red 120, green 120 LED wavelength: red: 625nm; green: 505nm LED diameter: φ5mm Single tube current: <18mA LED life: ≥70000 hours Insulation resistance: ≥500MΩ Dielectric strength: ≥1440V Center light intensity: 400 ~1000 cd Visual distance: >450m Visual angle: >30° Working voltage: AC 220V±44V, 50HZ Power: power ≤20W Working temperature: -40 ~ +80℃ Relative humidity: ≤93% Protection level: IP53 Weight: 16kg	
1.3	**FORIDO**	FRD-TL-103	Traffic lights	Includes: lamps, brim, decorative edge, back rod bracket (diameter: 100-300mm) Product size: 1178*400*150mm Mask specification: φ300mm Mask material: glass Shell material: PC material Surface treatment: black spray matte LED quantity: red 120, green 120 LED wavelength: red: 625nm; green: 505nm LED diameter: φ5mm Single tube current: <18mA LED life: ≥70000 hours Insulation resistance: ≥500MΩ Dielectric strength: ≥1440V Center light intensity: 400 ~1000 cd Visual distance: >450m Visual angle: >30° Working voltage: AC 220V±44V, 50HZ Power: power ≤20W Working temperature: -40 ~ +80℃ Relative humidity: ≤93% Protection level: IP53 Weight: 16kg	

1.4	**FORIDO**	FRD-TL-302	Traffic lights	Includes: lamp, brim, decorative edge, back rod bracket, U-shaped clamp (diameter: 100-300mm) Product size: 796*280*150mm Mask specification: φ200mm Mask material: glass Shell material: PC material Surface treatment: black spray matte LED quantity: red 90, yellow 90, green 90 LED wavelength: red: 625nm; yellow: 590nm; green: 505nm LED diameter: φ5mm Single tube current: <18mA LED life: ≥70000 hours Insulation resistance: ≥500MΩ Dielectric strength: ≥1440V Center brightness: 5000 ~15000 cd/m2 Visual distance: >450m Visual angle: >30° Working voltage: AC 220V±44V, 50HZ Power: power ≤20W Working temperature: -40 ~ +80℃ Relative humidity: ≤93% Protection level: IP53 Weight: 15kg	
1.5	**FORIDO**	FRD-XH-001	signaler	Support 24-channel output; Support pulse output control mode; Support communication output (communication protocols GB2004, GB2014, Les, Hisense, Siemens are optional); Light group output can be combined arbitrarily, and each color of the red, green and yellow light group can support up to 8 light panels. For example, if you go straight in the east-west direction, the red light can be set to 1-8 light panels at will. These 8 light panels are in parallel. The yellow and green lights can also be set to 1-8 light panels at will. The logical relationship is clearer, the operation is simple, and it is also very convenient to replace the output lamp driver if it is damaged; You can run different plans every day according to the weekly plan, and you can run additional plans at special times, a total of 9 plans, each plan has 24 time periods, and each time period can have 16 different phases; It has a conflict function. When setting the conflict function, if a conflict occurs, it will automatically prompt the location of the conflict and allow the user to reset it; It has a lamp panel detection function, which can detect the quality of the output lamp panel. When the lamp panel has been used for a long time and the light decay occurs, it can detect the abnormality of the lamp panel and remind the user to replace it in time; The user's operation has log files for reference; Supports the adaptive detection function of the serial port or parallel port (hardware support is required); You can view the lamp panel and countdown operation of the intersection in real time; System power (other power except external load) < 20W ● 9 planned release schemes, each plan supports 24 time period output, each time period supports 16 phase release, 99 release schemes ● Release according to different plans within a week, 50 special dates, special dates can execute another plan ● Operation mode is divided into: fixed cycle, pedestrian touch, time green wave, light off, yellow flash, all red and induction detection release modes ● GPS time calibration ● Manual remote control ● Input conflict detection ● Work log output ● Support 16 groups of communication countdown, communication countdown protocol is optional, optional GB2 004, GB2014, Siemens, Les, Hisense ●Support pulse countdown output, pulse time and pulse width can be set ●The output combination of the light group can be set arbitrarily, without the need to follow the fixed light group output wiring. When there is a problem with the drive output or the line, any other output can be used to replace the original output ●The interface can display the countdown output of each light group at the intersection in real time ●The light group output at the intersection can be remotely controlled to facilitate emergency release at the intersection ●Parameter settings can be remotely controlled ●With RJ45, RS485 and RS232 interfaces ●Light sequence operation Main light group: green->green flashing (time adjustable to 0)->yellow->red->red flashing (time adjustable to 0) Pedestrian light group: green->green flashing (time adjustable to 0)->red->red flashing (time adjustable to 0) Signal box: stainless steel material Size: 550*450*1000MM	

1.6	**FORIDO**	FRD-XH-005	signaler	Support 32-channel output; Support pulse output control mode; Support communication output (communication protocols GB2004, GB2014, LEIS, Hisense, Siemens are optional); Light group output can be combined arbitrarily, and each color of the red, green and yellow light group can support up to 8 light panels. For example, when driving straight in the east-west direction, the red light can be set to 1-8 light panels at will, and these 8 light panels are in parallel. The yellow and green lights can also be set to 1-8 light panels at will. The logical relationship is clearer, the operation is simple, and it is also very convenient to replace the output lamp driver if it is damaged; You can run different plans every day according to the weekly plan, and you can run additional plans at special times, a total of 9 plans, each plan has 24 time periods, and each time period can have 16 different phases; It has a conflict function. When setting the conflict function, if a conflict occurs, it will automatically prompt the location of the conflict and allow the user to reset it; It has a lamp panel detection function, which can detect the quality of the output lamp panel. When the lamp panel has been used for a long time and the light decay occurs, it can detect the abnormality of the lamp panel and remind the user to replace it in time; The user's operation has log files for reference; Supports the adaptive detection function of the serial port or parallel port (hardware support is required); You can view the lamp panel and countdown operation of the intersection in real time; System power (other power except external load) < 20W ● 9 planned release schemes, each plan supports 24 time period output, each time period supports 16 phase release, 99 release schemes ● Release according to different plans within a week, 50 special dates, special dates can execute another plan ● Operation mode is divided into: fixed cycle, pedestrian touch, time green wave, light off, yellow flash, all red and induction detection release modes ● GPS time calibration ● Manual remote control ● Input conflict detection ● Work log output ● Support 16 groups of communication countdown, communication countdown protocol is optional, optional GB2 004, GB2014, Siemens, Les, Hisense ●Support pulse countdown output, pulse time and pulse width can be set ●The output combination of the light group can be set arbitrarily, without the need to follow the fixed light group output wiring. When there is a problem with the drive output or the line, any other output can be used to replace the original output ●The interface can display the countdown output of each light group at the intersection in real time ●The light group output at the intersection can be remotely controlled to facilitate emergency release at the intersection ●Parameter settings can be remotely controlled ●With RJ45, RS485 and RS232 interfaces ●Light sequence operation Main light group: green->green flashing (time adjustable to 0)->yellow->red->red flashing (time adjustable to 0) Pedestrian light group: green->green flashing (time adjustable to 0)->red->red flashing (time adjustable to 0) Signal box: stainless steel material Size: 550*450*1000MM	
1.7	**FORIDO**	FRD-MR-001	Blind clock	Box size: 300mm*260mm*100mm, Material: galvanized plate Appearance: Black orange spray Working voltage: 220VAC±20% Power: ≤20W Insulation resistance: ≥500MΩ Dielectric strength: ≥1440V Wiring port: signal light can take control signal 220v, can connect two-way control signal Power supply voltage: 220 VAC Working temperature: -40~+80℃C Relative humidity: ≤93% Protection level: IP53 Weight: ≤ 5KG Implementation standard: signal light GB14887-2011: Installation mode: hard installation, screw fixation	
1.8	**FORIDO**	FRD-GJ-001	External pedestrian button	Size: 120MM*54MM*220MM Type: Multifunctional waterproof pedestrian crossing button with sound alarm and voice alarm Features: Touch button Multi-mode optional operation (learning mode, activation type, communication type) Intelligent volume and multi-level language control Support different light colors (red, green), sound alarm, voice alarm and voice countdown for client Setting supports RS-485 interface (PC Windows) and Bluetooth interface (mobile application) Support customizable multi-language voice prompts Technical parameters: Operating voltage: DC 12V / AC 220V Total power consumption: < 15W Operating temperature: -20°C ~ +70°C Protection level: IP65	