

Wireless Manual Pulse Generator Stand Changer

WHDW

Manual Guide



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1 Wireless Manual Pulse Generator Feature & Description

1.1 WHDW Feature

- (1) Wireless transmission function
- (2) 40-meter transmission distance, more convenient to operate the machine
- (3) With touch-buttons
- (4) Multiple axes option, maximum 9 axes
- (5) OLED high brightness contrast display
- (6) Quick watch all coordinates on machine
- (7) Magnetic rear case with pattern
- (8) Six expansion buttons & LED (optional)



Ill 1 : Wireless Manual Pulse Generator Communication Diagram



1.2 Mechanical & Electrical Spec. Description

Table 1 : Wireless Manual Pulse Generator

Item	Wireless Manual Pulse Generator	
Power	Lithium Battery 3.7V (Wireless Charge)/2200mAh DC5V 1A	
Current	Operation : $\leq 230\text{mA}$; Hibernation : $\leq 30\text{mA}$	
Potency of Lithium Battery	Charging Time	4 hours
	Lifetime	≥ 500 次 (60%電量)
	Operation	>8 hours
	Stand-by	>50 hours
	Expiry Date	Suggested renew every 2 years
OLED	2.4"	
Rotation Torque	150~250 gf.cm	
Rotation Life	1 million times back & forth	
MPG Pulse	100	
Communication Distance	40m	
Temporature	-5~45°C	
Dimensions	298*89*79mm	
Weight	< 800g	

Table 2 : Stand Charger

Item	Stand Charger
Power	DC 24V 0.5A
OLED	1.3"
Operation Buttons	Five Touch-buttons
MPG	25/100 PPR
MPG Output	A, B; A, /A, B, /B
Interface	Digital I/O Simulated Serial Signal
Dimensions	213*94*32mm
Weight	< 500g



2 WHDW Control Function Summary

- (1) Display in traditional Chinese/English/Japanese
- (2) Dialogue Input
- (3) Metric/Imperial units switch
- (4) MPG
 - 3.7V Power
 - 25/100 PPR Pulse Output
- (5) Maximum 9 Axes Select (Binary Output)
- (6) Maximum 7 Axes Select (Direct/Pin to Pin Output)
- (7) Maximum 4 rates Selectx1 、 x10 、 x100 & x1000(Binary or Direct Output)
- (8) Two Enabling Switches (Direct Output)
- (9) One Emergency Stop Button
- (10) Display
 - Wireless Manual Pulse Generator - 2.4" OLED (128*64 Resolution)
 - Stand Charger - 1.3" OLED (128*96 Resolution)
 - Monitor Contrast Adjustment

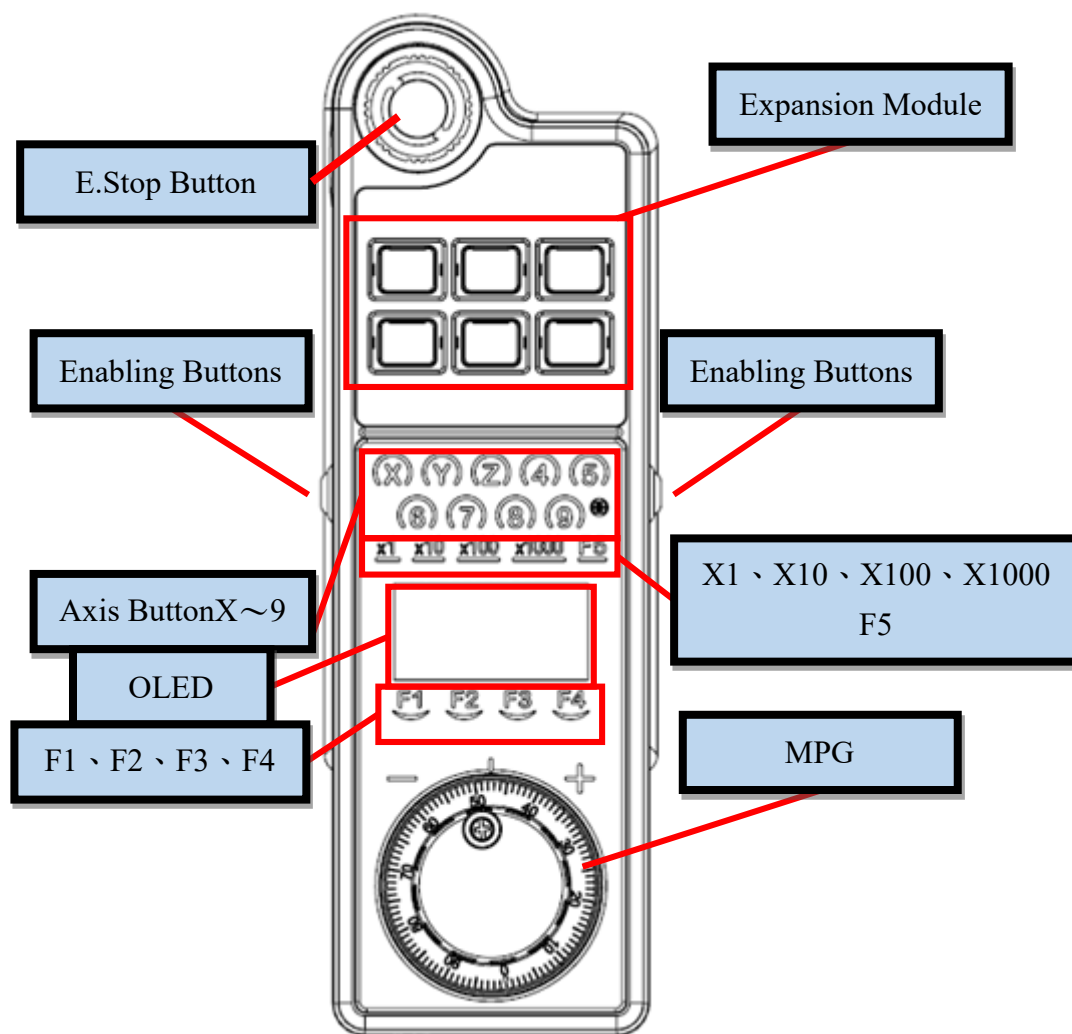


3 Function Description

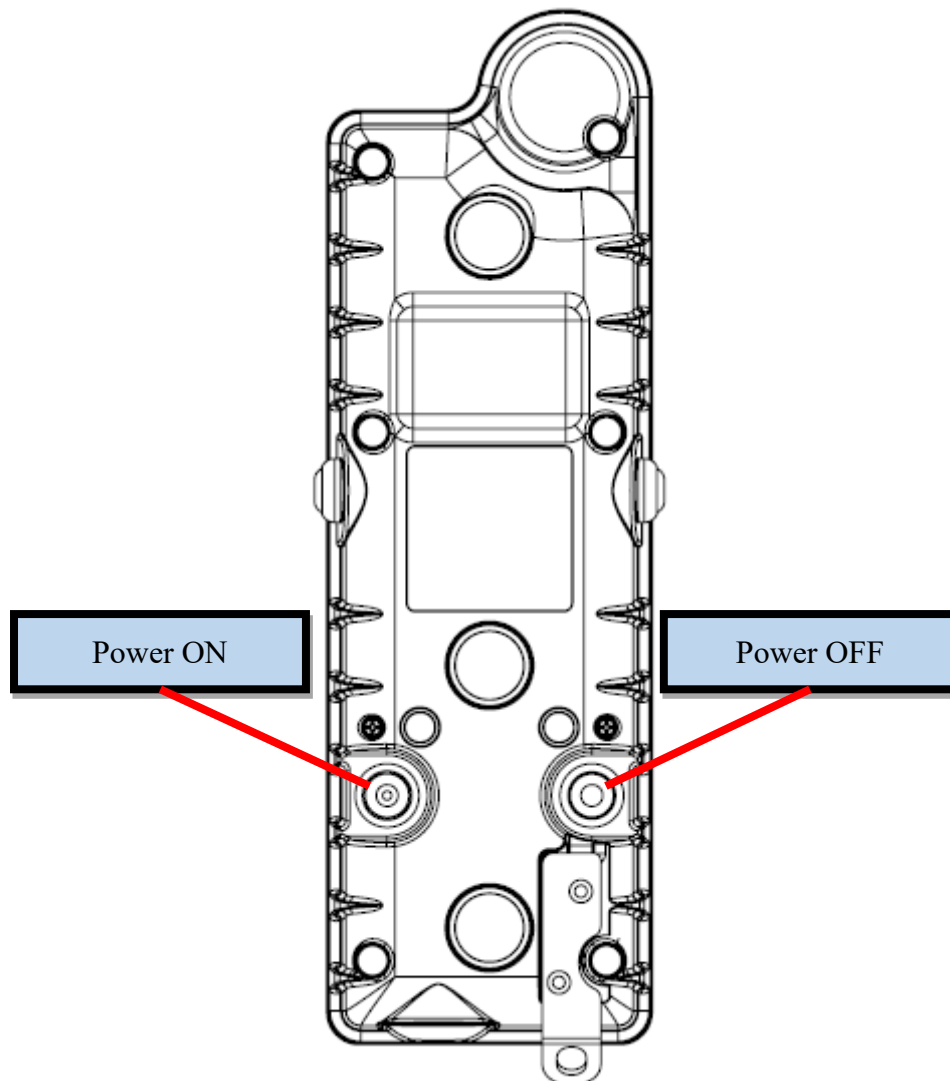
3.1 Wireless Manual Pulse Generator

3.1.1 Function Introduction

- (1) Axis Select : X、Y、Z、4、5、6、7、8、9
- (2) Rate Select : X1、X10、X100、X1000
- (3) Function Select : F1、F2、F3、F4
- (4) Confirm : F5
- (5) OLED Panel
- (6) 2 Buttons at Rear (Power ON、OFF)
- (7) 2 Enabling Buttons
- (8) 1 Emergency Stop Button
- (9) MPG
- (10) Expansion I/O Module : 6 Buttons (Ref. to Chapter 錯誤! 找不到參照來源。)



III 2 : Wireless Manual Pulse Generator Frontal Panel & Buttons



III 3 : Power Buttons

3.1.2 Buttons & Display Description

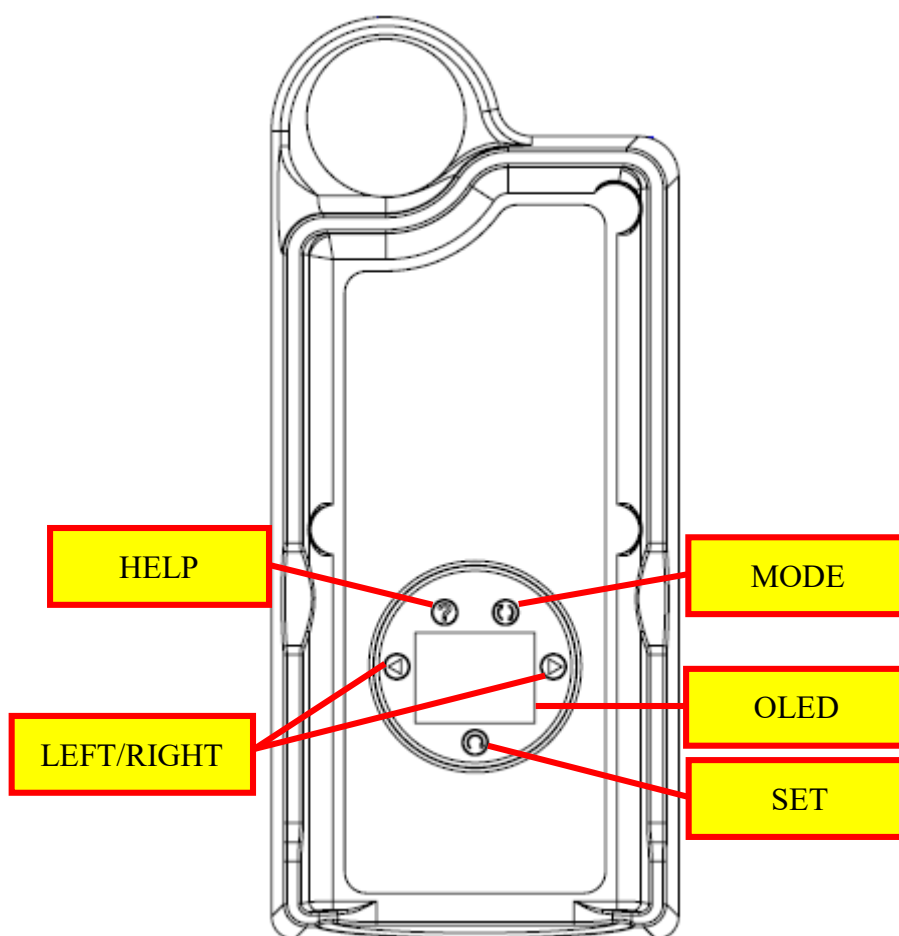
- (1) Axis Select
 - 9 axes output : X 、 Y 、 Z & 4~9
- (2) Rate Select
 - Pulse output : X1 、 X10 、 X100 & X1000
- (3) Function Keys Select
 - F1 : Main menu : Axis coordinate
 - F2 : System information
 - F3 : Button sound setting, stand-by time setting
 - F4 : System parameter setting (default only)
 - F5 : Enter



- (4) OLED Panel
Provide 128*64-resolution screen display
- (5) Two buttons at rear
Power ON、OFF
- (6) Enabling switch at eachside
Wake-up、MPG enablings
- (7) MPG
100PPR，can be transformed as 25PPR
- (8) Expansion Module
6 buttons defined by user (per chapter 錯誤! 找不到參照來源。)

3.2 Stand Charging Set

3.2.1 Button Panel Introduction



Ill 4：Charging Stand Touch Button Panel

- (1) OLED Panel：Provide 128*64-resolution screen display
- (2) OLED Panel peripheral touch button：



- MODE : For Switch page
- LEFT/RIGHT : For parameter value selection
- SET : Parameter setting confirmation
- HELP : Show current page description



4 Operation Description

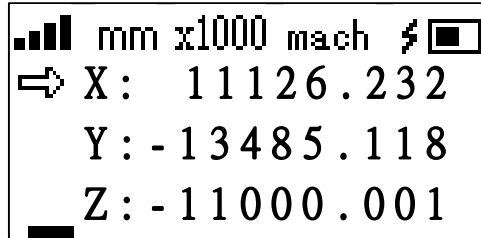
4.1 Screenshot Description

4.1.1 WHDW MPG Screenshot

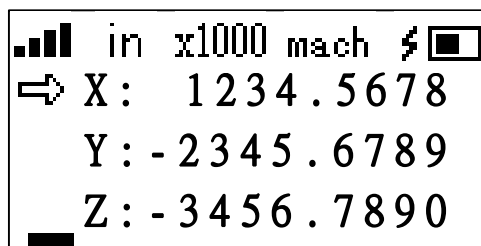
As shown in Ill 5 , The top left of the screen displays information from left to right :

- (1) Wireless signal strength
- (2) metric / imperial (mm/in)
- (3) Rate Select
- (4) Coordinate type: mechanical coordinate / workpiece coordinate
- (5) Charging symbol
- (6) Battery level display

The middle area of the screen is the main content display area, such as axis coordinates, parameter settings, and so on. The rectangle below is the page label, indicating the current page. Figure 5 and Figure 6 show the F1 page, showing the axis and coordinates. The position indicated by the arrow is the current axis.



Ill 5 : WHDW Screen Display Information (mm)



Ill 6 : WHDW Screen Display Information (in)

4.1.2 Stand Charger Screenshot

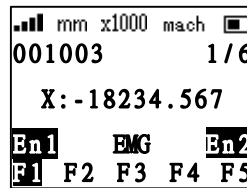
As shown in Ill 7 , The top left of the screen displays information from left to right :

- (1) Wireless signal strength (If doesn't connect, it won't be displayed.)
- (2) metric / imperial
- (3) Rate Select



- (4) Coordinate type: mechanical coordinate / workpiece coordinate
- (5) Battery level display (If doesn't connect, it won't be displayed.)

The device number is displayed on the left side of the second line of the screen, the current page/total number of pages on the right, and the current axial coordinates in the middle of the screen. The I/O status of each button of the Wireless Manual Pulse Generator is displayed below. For example, EMG is the emergency stop button, and En1 and En2 are the enable buttons. If pressed, it will be highlighted. As shown in Ill 7, the two enable buttons are pressed, and the Wireless Manual Pulse Generator is currently on the F1 page.

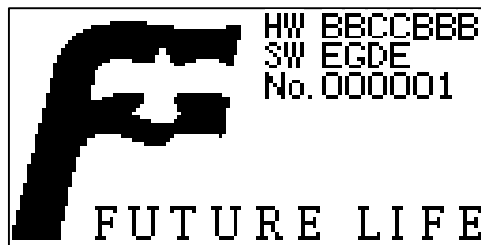


Ill 7 : Charging Stand Display Information

4.2 Operation Description

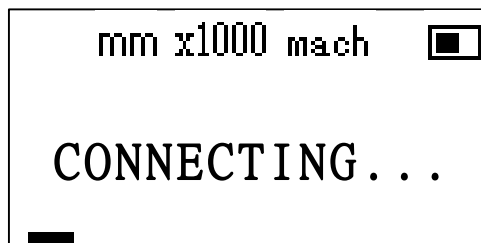
4.2.1 Boot up & Connection

- (1) When booting, the initial screen will be displayed, including the hardware and software versions, as shown in Ill 8.



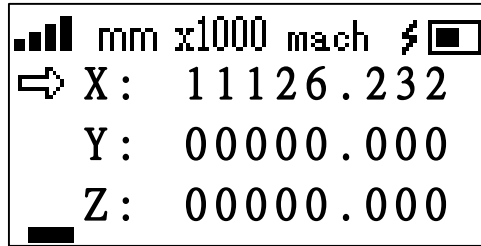
Ill 8 : Boot Initial Screen

- (2) Wireless Manual Pulse Generator will automatically connect, as shown in Ill 9.



Ill 9 : Connecting Screen

- (3) If the connection to the charging stand is successful, enter the main screen, that is the F1 page. :



The screenshot shows a device screen with the following text:
Signal strength bars (4 bars) mm x1000 mach [Battery icon]
⇒ X: 11126.232
Y: 00000.000
Z: 00000.000
A small black bar is visible at the bottom left of the screen.

Ill 10 : Successful Connection, Enter The Main Screen

(4) If the connection fails, it will automatically reconnect.



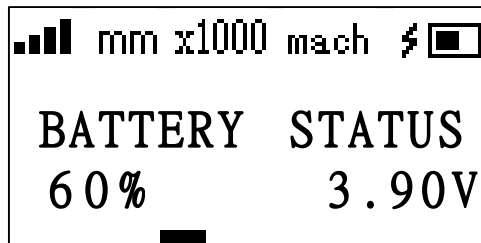
4.2.2 F1 Page

Pressing the F1 button will jump to the F1 page, which is the screen for displaying the axis coordinates (Ill 10). The general operation is under the F1 page. If you press F1 when you are not connected, the screen in the connection will be displayed.

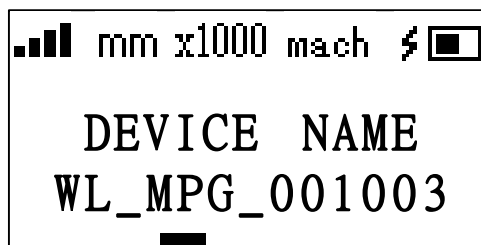
4.2.3 F2 Page

When presses F2, it will enter the system information page. The system information includes the following items, and each page displays a message. To view the next message, press F2 to switch. °

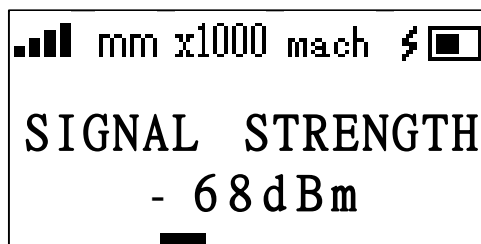
- (1) Battery Status
- (2) Device Name
- (3) Signal Strength



Ill 11 : System Information— Battery Status



Ill 12 : System Information— Device Name



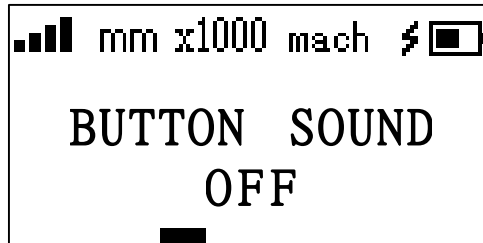
Ill 13 : System Information— Signal Strength

4.2.4 F3 Page : Button Sound Setting

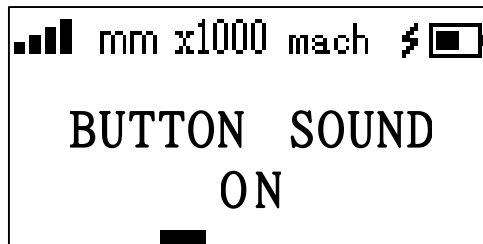
- (1) Press F3 to enter the button sound setting page, the default value is OFF, press F5, the text starts to flash, indicating that the setting can be started.
- (2) Rotating handwheel : Switch OFF and ON, press F5 again when finished,



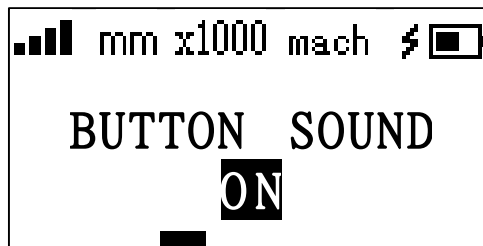
the selected option will be highlighted, and the setting is completed. As shown in Ill 14-16.



Ill 14 : Button Sound Setting Page



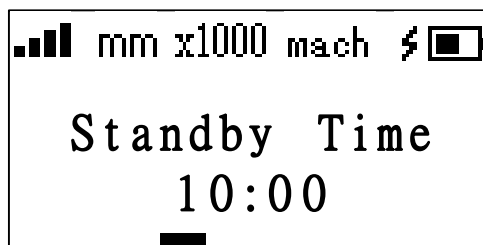
Ill 15 : Button Sound Selection



Ill 16 : Button Sound Setting Completed

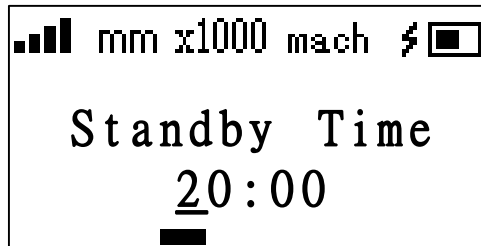
4.2.5 F3 Page : Standby Time Setting

- (1) After pressing F3 to enter the button sound setting page, press F3 again to enter the standby time setting page.



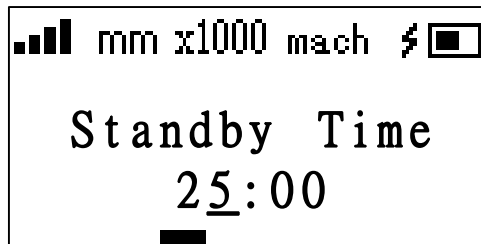
Ill 17 : Standby Time Setting Page

- (2) The standby time can be set up to 30:00, which is 30 minutes; the minimum can be set to 00:10, which is 10 seconds. Press F5 to start setting from the ten digits of "minute". The bottom line is displayed below the number of digits in the setting.



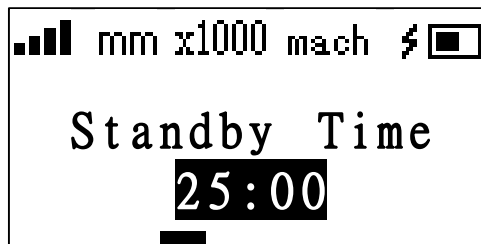
Ill 18 : Start Setting

- (3) Turn the handwheel to select the number, press F5 to confirm and set the next digit.



Ill 19 : Set the Next Digit

- (4) Set all four digits according to this step, and complete the standby time setting.



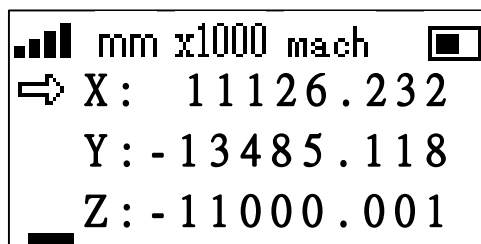
Ill 20 : Setting Completed

4.2.6 F4 Page

The F4 page is used for setting the system parameters before leaving the factory, and is not currently open.

4.2.7 Start Operation

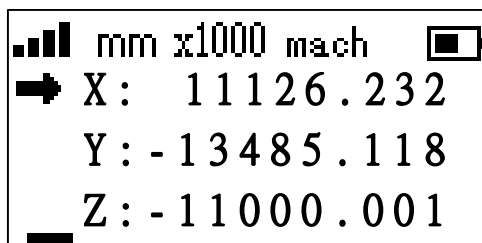
- (1) Press F1 to switch to the coordinate screen. Each page displays 3 axes. The starting screen is the coordinates of X to Z.





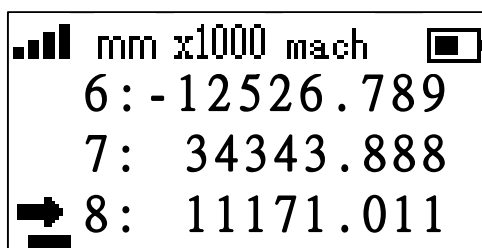
Ill 21 : Main Screen

- (2) Press the Enable button on both sides of the Wireless Manual Pulse Generator (depending on the setting of the Enable button). At this time, the arrow on the screen will change from hollow to solid arrow, indicating that both sides of the Enable button are actually pressed, and the job can be started.



Ill 22 : Main Screen

- (3) Select the axis to be adjusted in X, Y, Z, 4~9, and press the touch button. At this time, the corresponding button light is on, and the selected axis coordinate is displayed on the screen. For example, if 8 is selected, the screen is switched as follows.



Ill 23 : Main Screen—8-Axis Coordinate

- (4) Press the button of the magnification to select the magnification: x1~x1000 ◦
- (5) Turn the handwheel, the hand-held end will transfer the value of the handwheel to the charging stand, and convert it to pulse wave through the charging stand to transmit to the machine.

4.2.8 Hibernation & Wake-up

When you don't push any buttons on the Wireless Manual Pulse Generator for a while, the screen will be dimmed and will go to sleep after a while. The standby time is preset to 10 minutes at the factory.

When it go to sleep, the MPG, LED, touch buttons and screen will all be turned off. To wake up again, press any Enable button on both sides. The emergency stop button also wakes up the sleep state. The connection will not be interrupted by dormancy, so if there is an emergency stop, it can react immediately.

4.2.9 Hand Free Function



The Wireless Manual Pulse Generator has a Hand Free function, and a sensor is provided inside the hand-held to sense whether the magnet on the back of the hand-held is attracted to the steel. If the handheld is attached to the machine, the Hand Free function will be activated. The axis, rate and MPG can be operated without pressing the Enable button. When the handheld leaves the machine, the Hand Free function will automatically turn off, and it will return to the state where you need to hold down the Enable button.

4.3 Stand Charger Operation Description

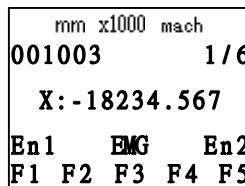
4.3.1 Stand Charger Boot up & Connection

- (1) After booting up, the initial screen will be displayed first, as shown in Ill 24.



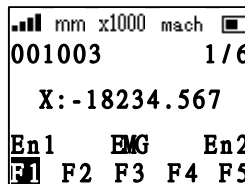
Ill 24 : Initial Screen

- (2) Then enter the main page, as shown in Ill 25. When scanning to the Wireless Manual Pulse Generator, it will automatically connect.



Ill 25 : Device Scan

- (3) The screen after successful connection as shown in Ill 26. At the top is the information. From left to right is wireless signal strength, metric/inch units, magnification and Wireless Manual Pulse Generator battery power. The following is the serial number of the Wireless Manual Pulse Generator and the currently selected coordinate axis and its coordinates (when used for the first time, the power is preset to the X axis, the rate is $\times 1$).



Ill 26 : General Work Page

4.3.2 Stand Charger Operation Page

The stand charger has the following pages :

- (1) Mail Page (Ill 7) : General work page, showing coordinates, axial and rate



information.

- (2) Screen Contrast Setting : Set screen contrast.
- (3) Reconnect : Interrupt and reconnect with the Wireless Manual Pulse Generator.
- (4) Button Sound Switch : Set to turn the button sound on or off.
- (5) Call Wireless Manual Pulse Generator : Call the Wireless Manual Pulse Generator to make the Wireless Manual Pulse Generator buzzer sound.
- (6) List of Event Records : Record abnormal events.

The page number will be displayed on the right of the second line of the screen.

The format is: current page number / total number of pages

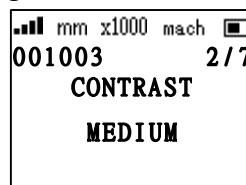
4.3.3 Page Switching Introduction

There are three types of page switching :

- (1) Press the MODE button to switch to the next page.
- (2) Press and hold the left button, then press the MODE button to switch to the **previous page**.
- (3) Press and hold the SET button, then press the MODE button to switch to the **main page**.

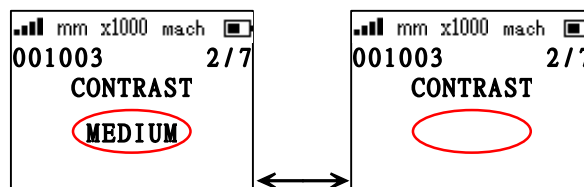
4.3.4 Parameter Setting Introduction

- (1) Press the MODE button on the main page, and the screen will switch to "Screen Contrast Setting".



Ill 27 : Parameter Setting - Screen Contrast

- (2) Press the SET button to start setting, and the text of the set value starts to flash.

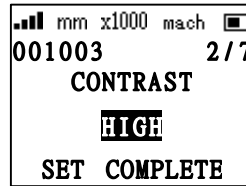


(1) Ill 28 : Text of the Set Value Starts to Flash

- (2) Press the left or right button to select "Low", "Medium" or "High". After the selection is completed, press the SET button to complete the setting and save. At this time, the set value text is highlighted, and "Setting Complete" is

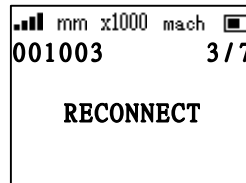


displayed below. °



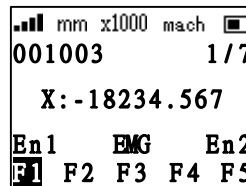
Ill 29 : Parameter Setting - Screen Contrast

- (3) To cancel the setting, do not press the RESET button and press the MODE button to switch to the next page, the settings will not be saved.



Ill 30 : Parameter Setting - Cancel Setting, Switch to Next Page

- (4) Press the MODE button to switch to the next page, and return to the general work page.

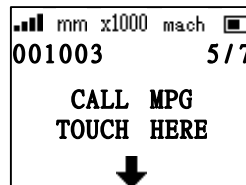


Ill 31 : Parameter Setting - Return to General Work Page

The setting method of the other parameters is analogous. °

4.4 Calling to WHDW

The stand charger also has the function of calling the Wireless Manual Pulse Generator. Press the MODE button to switch the page to the “CALL MPG” page on page 5. At this time, press the SET button indicated by the arrow, the buzzer of the wireless handwheel will start to sound until Press any of the ENABLE buttons on either side of the wireless handwheel. This feature is not available when it is not connected.



Ill 32 : Call MPG

4.5 Reboot (RESET)

If the charging stand is abnormal, it can be restored by restarting. The way to restart is to hold down the HELP button and the stand charger will restart after 6 seconds. °

4.6 Events Records



When the Wireless Manual Pulse Generator or stand charger is abnormal, or performing a specific action (such as an emergency stop), the stand charger will record it. Press the MODE button to switch the page to the last page, and the screen will display the records of the last 100 events in sequence. Table 3 shows the name of each event record and its description, and Ill 33 shows the screen of the event record.

Table 3 : Event Record Item and Description

Name	Description	Name	Description
EMG	Emergency Stop Button Trigger	BLE-xx	Abnormal Bluetooth Module
LOW VOLT	Battery Low Voltage	I2C-xx	Abnormal Expansion Module
LOW RSSI	Weak Reception	SER-xx	PLC Serial Communication Error
H-LOW RSSI	Weak Handheld Reception	H-TOUCH-xx	Abnormal Handheld Touchpad
CONN BREAK	Connection Interruption	H-I2C-xx	Abnormal Handheld Expansion Module
H-RESET	Handheld Reset	H-BTN-xx	Abnormal Handheld Touch Button
H-WATCHDOG	Wireless MPG Abnormal Restart	H-BLE-xx	Abnormal Handheld Bluetooth Module
C-WATCHDOG	Stand charger Abnormal Restart	CHARGE TIME	Charging Timeout

```
mm x1000 mach
001003 7/7
03: H-LOW RSSI
04: H-RESET
05: CONN BROKEN
06: EMG
```

Ill 33 : Events Records

4.7 Page Description

Table 4 is a description of each page. Pressing the HELP button on the stand charger will display the description of the page :

Table 4 : Page Description

Page No.	Page	Description
無	Scan Page	Search for wireless MPG and connect automatically.
1	General Work	Displays information such as axis, rate, coordinates,



	Page	and button status.
2	Screen Contrast Setting	Select the screen contrast, which is available in low, medium and high contrast.
3	Interrupt and Reconnect	Press the SET button to disconnect and reconnect.
4	Button Sound Switch	Select to turn on or off the button sound.
5	Call Wireless MPG	Press the SET button to calln the MPG is received, the buzzer will sound. Press the enable button of MPG to turn it off.
6	Event Record List	This page lists the last 100 abnormal events or actions, press the left and right button to view.

5 Maintenance & Alert Description

5.1 Maintenance :

Clean and check at least once a day, and pay attention to the power of the Wireless Manual Pulse Generator. If it will not be used for a long time, please turn off the Wireless Manual Pulse Generator and put it on the stand charger.

Attention: When cleaning and maintenance, stop all operations and turn off the Wireless Manual Pulse Generator.

General cleaning and maintenance procedures :

- (1) Make sure the Wireless Manual Pulse Generator is turned off.
- (2) Non-touch panel and screen are wiped clean with a soft cloth
- (3) The screen and touch panel can be wiped with paper and glass cleaner. Do not use coarse clothes, or it may scratch the acrylic.
- (4) Do not excessive force to push buttons and screens when cleaning.

5.2 Alert & Check :

Please check before use, check the items as follows :

- (1) Check each button of the Wireless Manual Pulse Generator : Check each button has motion and synchronously display the current button status in the stand charger. °
- (2) Stand charger touch button check : Switch to the setting page to test whether each button has action.
- (3) Wireless communication can be connected.



- (4) Entity I/O signals : If there is no display problem in the Wireless Manual Pulse Generator and the stand charger, but the machine does not have any reaction, there may be an abnormality in the entity wiring. You can confirm the connection is bad or not. If there is no bad connection, please notify the manufacturer.

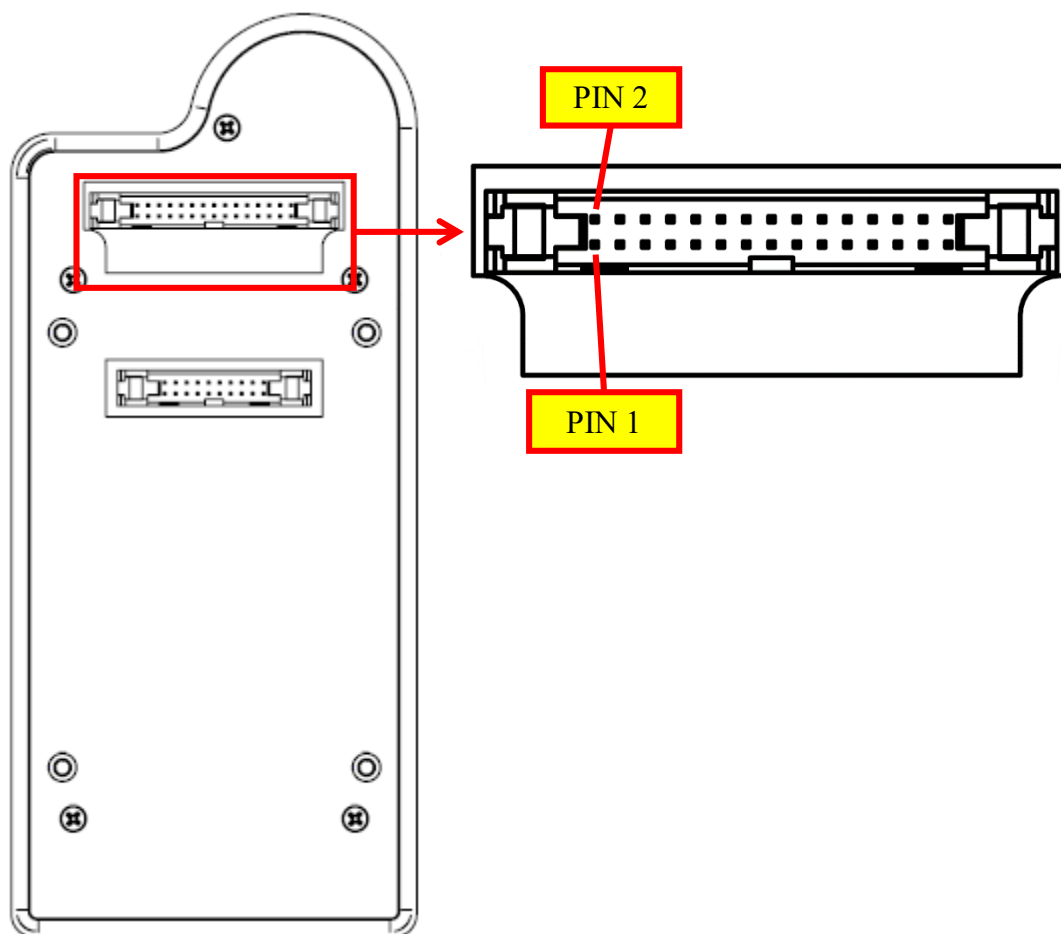
In addition, you can check the event record page of the stand charger to know there is an abnormal event or not. If there is any abnormal event, please notify the manufacturer to process it.



6 External Signal Diagram & Serial Communication

Form

6.1 Wiring Function



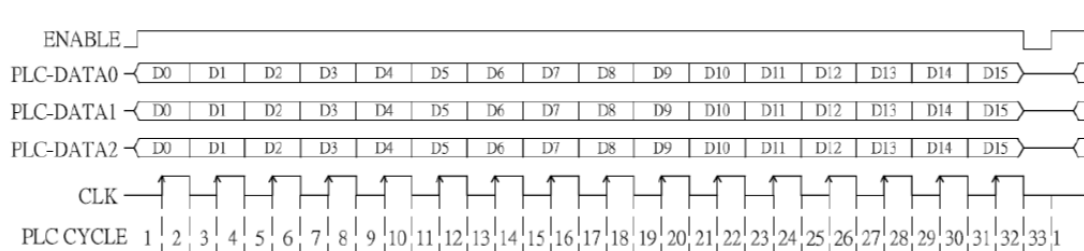
III 34 : Stand Charger External Wiring Connector (2*15 Connector)



Table 5 : Stand Charger External Wiring Pin

Pin	Fuction	Pin	Fuction
PIN 1	DC 24V Input	PIN 16	MPG Power
PIN 2	MPG A	PIN 17	Rate (bit 0)
PIN 3	MPG /A	PIN 18	Rate (bit 1)
PIN 4	MPG B	PIN 19	Rate (bit 2)
PIN 5	MPG /B	PIN 20	Axis (bit 0)
PIN 6	DC 0V	PIN 21	Axis (bit 1)
PIN 7	Serial Communication : ENABLE	PIN 22	Axis (bit 2)
PIN 8	Serial Communication : CLK	PIN 23	Emergency Stop Switch (B1-1)
PIN 9	Serial Communication : PLC-DATA0	PIN 24	Emergency Stop Switch (B1-2)
PIN 10	Serial Communication : PLC-DATA1	PIN 25	Emergency Stop Switch (B2-1)
PIN 11	Serial Communication : PLC-DATA2	PIN 26	Emergency Stop Switch (B2-2)
PIN 12	Abnormal Warning : ERR-OUT	*PIN 27	RS485_A/ RS232_TX/Axis (bit 3)
PIN 13	Enable Button 1	*PIN 28	RS485_B/Axis (bit 4)
PIN 14	Enable Button 2	*PIN 29	RS485_Z/Axis (bit 5)
PIN 15	DC 0V	*PIN 30	RS485_Y/ RS232_RX/Axis (bit 6)

6.2 Serial Communication Form



Ill 35 : Digital I/O Analog Serial Signal

Table 6 : Data Transmission Format

Serial Data	Meaning
-------------	---------



PLC-DATA0	Coordinate Value—High - 2 byte									
PLC-DATA1	Coordinate Value—Low - 2 byte									
PLC-DATA2	D15～ D9 : Reserved	D8 : Axis	D7 : Do Not Use	D6 : Coordinate Selection	D5 : Unit	D4 : Rate	D3 : Rate	D2 : Axis	D1 : Axis	D0 : Axis

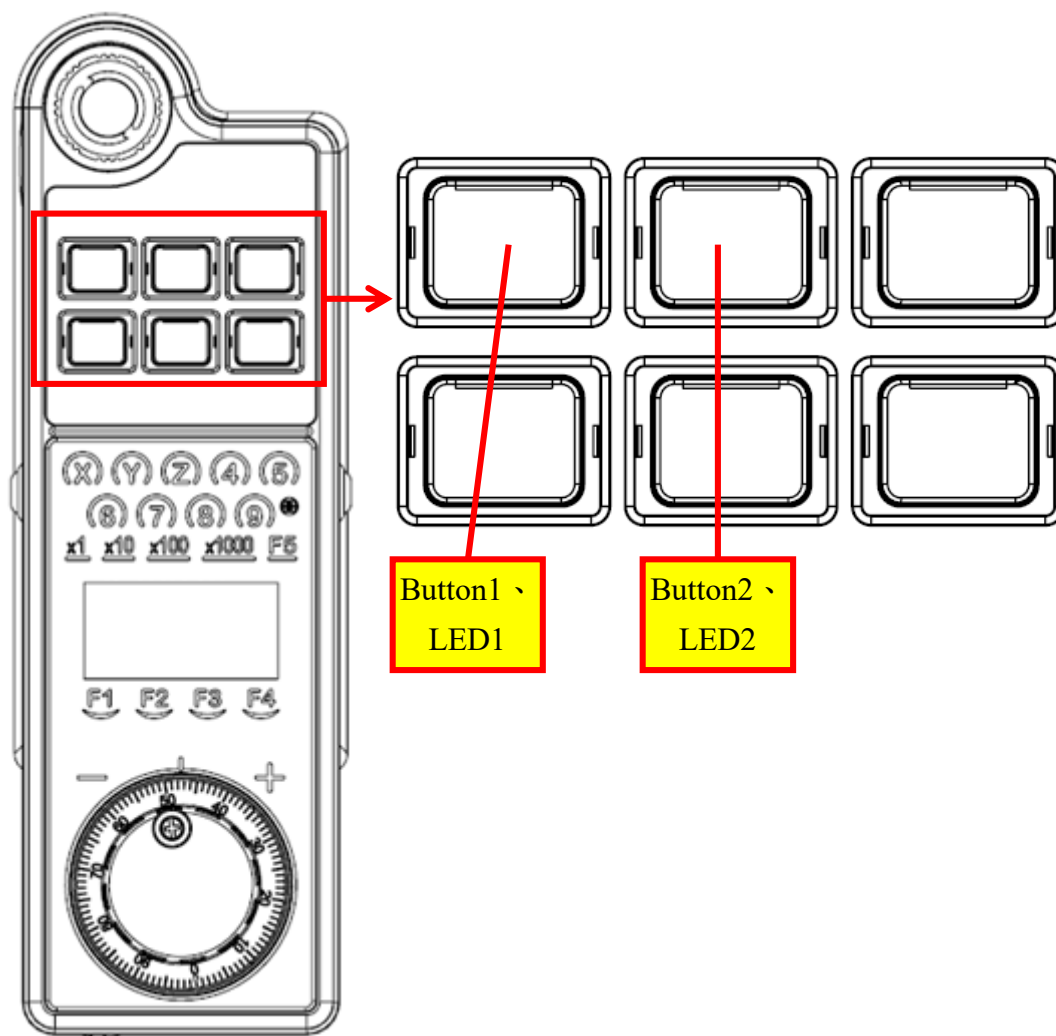
Description :

- (1) Coordinate Value : Transmitted by PLC-DATA 0, 1 from 0 to ± 99999999 , a total of 4 byte
- (2) Axis : Transmitted by PLC-DATA2 and is located at D8 and D2~0, a total of 4 bits. 0001: X axis, 0010: Y axis, 0011: Z axis, 0100: 4 axes, and so on, up to 9 axes.
- (3) Rate : Transmitted by PLC-DATA2 and is located at D4~3, a total of 2 bits. 00: x1, 01: x10, 10: x100, 11: x1000.
- (4) Unit : Transmitted by PLC-DATA2 and is located at D5 for a total of 1 bit. 0 is mm, 1 is inch.
- (5) Coordinate Selection : Transmitted by PLC-DATA2 and is located at D6 for a total of 1 bit. 0 is the mechanical coordinate and 1 is the workpiece coordinate

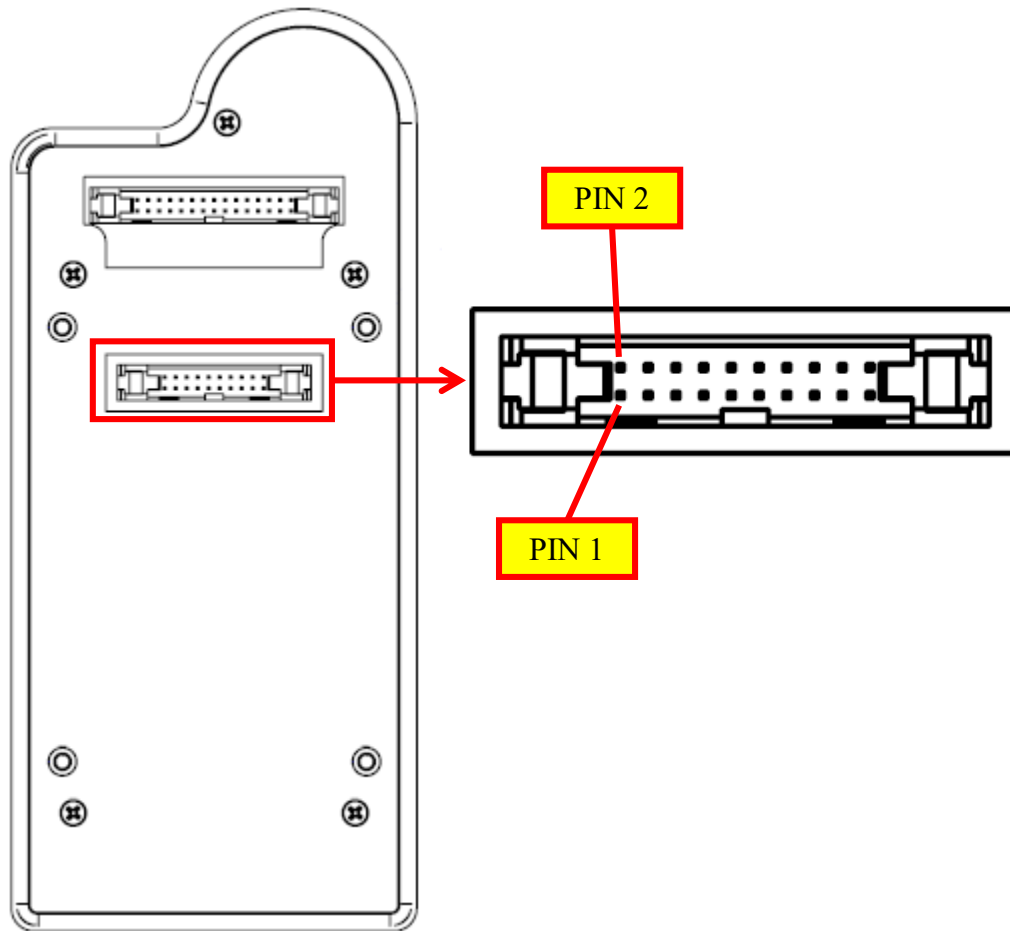


7 Button 、 I/O Expansion Module

The button expansion module of the Wireless Manual Pulse Generator is located above the Wireless Manual Pulse Generator touchpad. It has 6 buttons and 6 LEDs. Each button and LED has independent I/O lines. The I/O expansion port of the stand charger is combined with the machine. The connection is made according to the customer's requirements. When the button is pressed, it is 0 or 1. Refer to Ill 36 and Ill 37 for the appearance of the button expansion module and the I/O expansion port.



Ill 36 : Wireless Manual Pulse Generator Button Expansion Module



Ill 37 : Stand Charger I/O Expansion Port

I/O Expansion Port Wiring Function, as shown in TableTable 7.

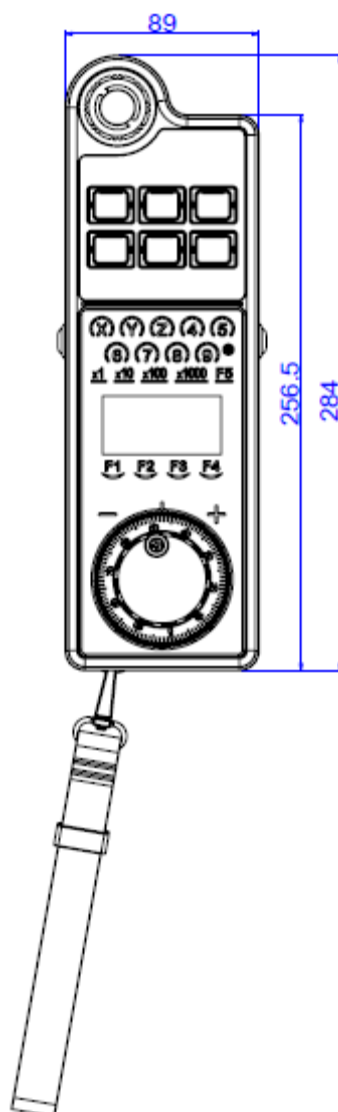
Table 7 : I/O Expansion Port Wiring Function

Pin	Function	Pin	Function
PIN 1	DC 24V	PIN 11	Reserved Input
PIN 2	DC 24V	PIN 12	Reserved Input
PIN 3	DC 0V	PIN 13	Button 1
PIN 4	DC 0V	PIN 14	Button 2
PIN 5	LED1	PIN 15	Button 3
PIN 6	LED2	PIN 16	Button 4
PIN 7	LED3	PIN 17	Button 5
PIN 8	LED4	PIN 18	Button 6
PIN 9	LED5	PIN 19	Reserved Output
PIN 10	LED6	PIN 20	Reserved Output

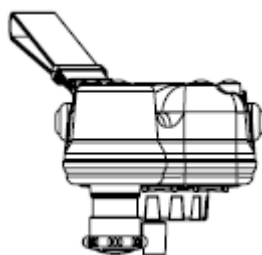


8 External Dimensions

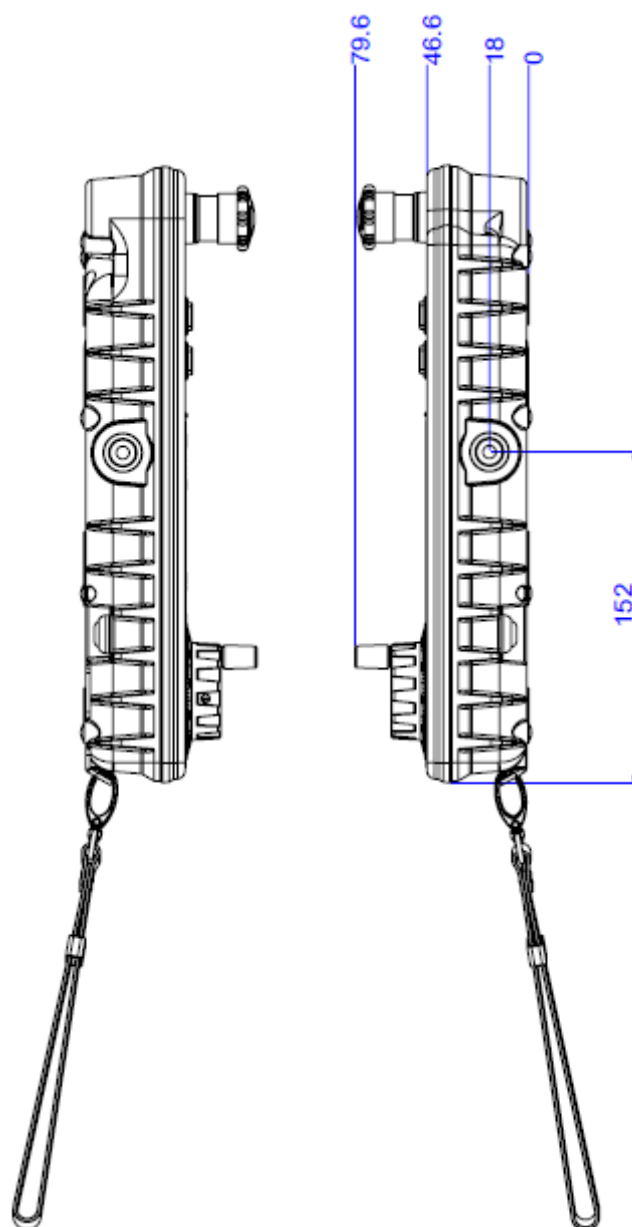
8.1 Wireless Manual Pulse Generator



Ill 38 : Front View of Wireless Manual Pulse Generator



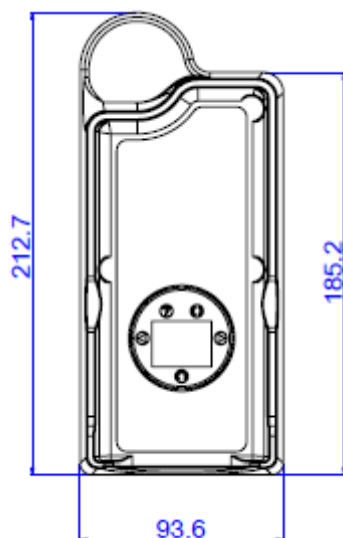
Ill 39 : Upper View of Wireless Manual Pulse Generator



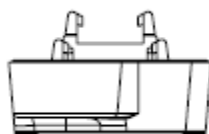
Ill 40 : Side View of Wireless Manual Pulse Generator



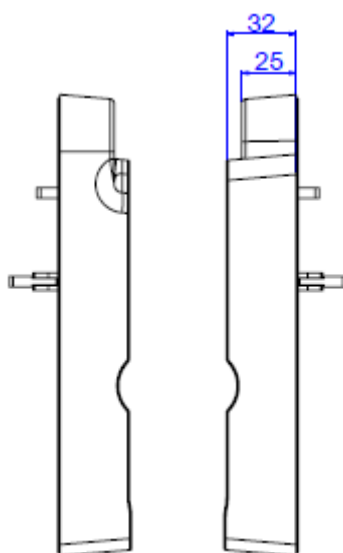
8.2 Stand Charger



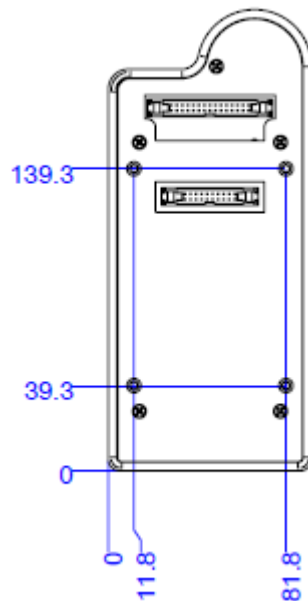
Ill 41 : Front view of Stand Charger



Ill 42 : Upper View of Stand Charger



Ill 43 : Side View of Stand Charger



III 44 : Rear View of Stand Charger

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

IC Caution:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme la norme d'Industrie Canada de licence RSS(s).

Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne peut pas causer d'interférences, et (2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Stand Changer

FCC ID: 2AT44-FLTWHDWV10

IC : 25315-FLTWHDWV10

Contains ID: SH6MDBT42Q

Contains IC: 8017A-MDBT42Q

Wireless Manual Pulse Generator

Contains IC: 8017A-MDBT42Q

Contains ID: SH6MDBT42Q