

No.: XSW-J-10-0011-2025

Product Technical Sheet

SW-D60



Two-Wheeler Display

Model: SW-D60

Version: V1.01



Website

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I. Safety Notes

PLEASE TAKE CAUTION WHEN USE, DO NOT PLUG OR UNPLUG THE DISPLAY WHILE YOUR VEHICLE IS POWERED ON.

- AVOID CLASHES OR BUMPS TO THE DISPLAY.
- AVOID USING IN HEAVY RAINS, SNOWS OR LONG EXPOSURE TO STRONG SUNLIGHT. DO NOT TEAR THE WATER-PROOF FILM ON THE SURFACE OF THE SCREEN, OTHERWISE THE WATER-TIGHT PERFORMANCE OF THE PRODUCT MAY BE DEGRADED.
- DO NOT PLUG OR UNPLUG THE DISPLAY WHILE THE SYSTEM IS POWERED ON. UNAUTHORIZED ADJUSTMENT TO DEFAULT SETTINGS IS NOT SUGGESTED, OTHERWISE NORMAL USE OF YOUR Vehicle CAN NOT BE GUARANTEED.
- WHEN THE DISPLAY PRODUCT DOES NOT WORK PROPERLY, PLEASE SEND IT FOR AUTHORIZED REPAIR IN TIME.

II. Overview

1. Product Name and Model

Product Name: Electric Vehicle Display

Product Model: SW-D60

2. Product Introduction

SW-D60 features high-brightness color TFT LCD and minimalist interface, working as an ideal HMI solution for electric bikes.

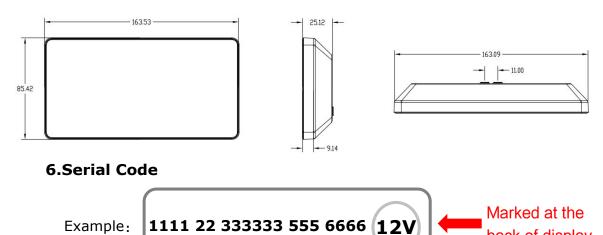
3. Specifications

Category		Specs
	L*W*H (mm)	163.5x85.4x25.1
Size	Visual Area (mm)	134.4x67.2
Size	Screen Size	5.92"
	Handlebar Size (mm)	Custom
	Туре	TFT-IPS
Screen	Brightness	1000cd/m
Screen	Resolution Ratio	1280*640
	Viewing Direction	All O'clock
Connector	Туре	Embedded Connector
Connector	Specs	6-pin/9-pin/Custom
	Working Voltage	12V-72V
	Working Current	60mA
	USB Charge	5V 0.6A
Performance	Working Temperature	-20℃ - 70℃
	Protection Rate	IP66
	Viberation	10G@30Hz
	Protocol	CAN/UART
Certification		CE
		RoHS
		FCC

4. Function

Category	Function	
	Unlock by NFC	
User Identification	Unlock by Bluetooth	
	Unlock by Password	
	Gear Level	
	Speed	
	Range/Distance	
	Battery Info	
Display	Mode	
Display	Charge Status	
	Dual Drive / Single Drive Status	
	Output Power	
	Temperature of Component	
	(Motor/Controller)	
	High Beam Light/ Low Beam Light	
	Left Turn / Right Turn	
Indication	Side Positioning Light	
maication	Error Alert	
	Cruise	
	Connection (USB/Bluetooth/NFC)	
Control	Auto Daylight Mode/ Dark Mode	
Control	Brightness	
	System Unit	
	Trip Clearance	
Settings	Gear Level	
	Mode	
	Sensitivity of Light Sensor	
	Smart App	
	ОТА	
Advanced	Boot Logo/Animation	
	Customised UI	
	Customised Protocol	

5. Size



back of display

1111: Customer Code

22: Protocol Code

Example:

333333: P.O. Date (YYMMDD)

555: Order Receiving Number

6666: Production Date (YYMM)

${ m III.}$ Operation

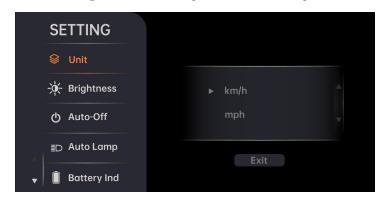
1. Display Interface

1.1 Riding Interface (for reference)



- Status: Real-time Riding Status: Bluetooth, Front Light, Brake, Low Voltage, Turning, Cruise, Drive Status, etc.
- Battery Status: Residual Battery Percentage
- Multi-Function Section: ODO (total range), TRIP (single ride range), MAX (max. speed), AVG (average speed), TIME (riding time), VOL (battery voltage), Wh (motor power), CUR (current), etc.
- Assist Level Mode: 3/5/9 Levels available.

1.2 Setting Interface (for reference)



In the above interface: Setting Item: System Unit





In the above interface: Error Code: E10, Error Note: Offline

2. Error Code (Sciwil CAN Default)

Error Code (decimal)	Status	Ref. Solutions
E2	Throttle Error	Check Throttle
E3	Communications Error	Check Connection
E4	Hardware Over-Current	Check Connection
E5	Low Battery	Check/Charge Battery
E6	Over-Voltage	Check Battery
E7	Motor Sensor Error	Check Motor

3.Connection





Pin No.	Functions	
1	Display Power Wire	
2	Electric Lock Wire/Empty	
3	Display Ground Wire	
4	High-Volt Signal of CAN Bus	
5	Low-Volt Signal of CAN Bus	
6-16	Customise	

IV. Reliability Test

No.	Test Item	Standard	Equipment	Result
1	Waterproof Test	Product should comply with IPX6: protected against high pressure stream from any angle	High Pressure Water Blast Gun	Pass
2	Viberation Test	Fix the product on the rack on the test stand. The product should be able to withstand	Viberation Test Stand	Pass

		sweep-frequency vibration tests in the X, Y, and Z directions. Vibration frequency range: 20~30 Hz, Amplitude: 1.5 mm Test duration: 48 minutes per cycle.		
3	High Temperature Test	Power on the product and test in high temperature chamber Test temperature: 85°C Test Duration: 3hrs	High and Low Temperature Test Chamber	Pass
4	Low Temperature Test	Power on the product and test in high temperature chamber Test temperature: -30°C Test Duration: 6hrs	High and Low Temperature Test Chamber	Pass
5	Salt Spray Test	Power on the product and test in salt spray chamber Test temperature: 35°C+2°C Test Duration: 72hrs or as per customer requirements Concentration of sodium chloride solution: 5% ± 1%. PH of the solution: 6.5~7.2.	Salt Spray Test Chamber	Pass
6	Drop Test	Drop the product in X/Y/Z direction from a height of 1m. After each test turn on the display to confirm normal function.		Pass

7	Function Test	All the indicators on the test box signs correctly. Function of keys comply with drawing and customer requirement. No visual variation of brightness or missing patterns.	System Test Box	Pass
8	Burn-in Test	Test Voltage: 90V Power-on Duration: 60s Power-off Break: 5s Test Duration: 48h	Burn-in Rack	Pass

V. Warranty

In compliance with local laws, Sciwil provides limited warranty period covering **24 months** after the date of manufacturing (as indicated by the serial number), applies to quality issues during normal operations.

The limited warranty shall not be transferred to a third party other than as specified in the agreement with Sciwil.

Warranty Exclusions:

- Sciwil products that have been opened, modified or repaired without authorization.
- Damage on the connectors.
- Damage to the surface after leaving factory, including shell, screen, buttons, or other appearance parts.
- Damage to wiring and cables after leaving factory, including breaks and exterior scratch.
- Damage or loss due to force majeure (e.g. fire or earthquake) or natural disaster (e.g. lightening).
- Out of the warranty period.

VI. Version

This display user manual is in compliance with the general software version (A/0) of Changzhou Sciwil E-Mobility Technology Co., Ltd. There are chances that display products on some Vehicles may have a different software version, which is subject to the actual version in use.