

No.: XSW-J-10-0004-2024

Product Technical Sheet

SW-D70



Two-Wheeler Display

Model: SW-D70

Version: V1.01



Website

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Changzhou Sciwil E-Mobility Technology Co., Ltd.

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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-D70

2. Product Introduction

SW-D70 features high-brightness color TFT LCD and minimalist interface, working as an ideal HMI solution for electric bikes.

3. Specifications

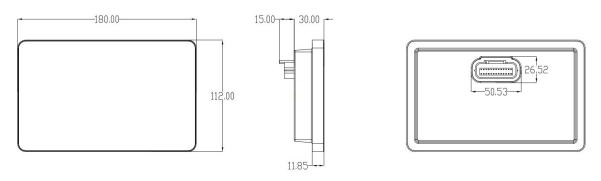
Category		Specs	
	L*W*H (mm)	180.0x112.0x30.0	
Size	Visual Area (mm)	154.21x85.92	
Size	Screen Size	7.0"	
	Handlebar Size (mm)	Custom	
	Туре	TFT-IPS	
Screen	Brightness	1200cd/m	
Screen	Resolution Ratio	1024*600	
	Viewing Direction	All O'clock	
Connector	Туре	Outlet Cable w/ Connector	
Connector	Specs	6-pin/9-pin/Custom	
	Working Voltage	12V-72V	
	Working Current	60mA	
Performance	Working Temperature	-30℃ - 85℃	
	Protection Rate	IP66	
	Viberation	10G@30Hz	
	Protocol	CAN/UART(232/485)	
'		CE	
C	ertification	RoHS	
		FCC	

4. Function

Category	Function		
User Identification	Unlock by Bluetooth		
Oser Identification	Unlock by Password		
	Gear Level		
	Speed		
	Range/Distance		
	Battery Info		
	Mode		
	Charge Status		
Display	Dual Drive / Single Drive Status		
Бізріаў	Output Power		
	Temperature of Component		
	(Motor/Controller)		
	Dual Cameras		
	Weather		
	Compass		
	Elevation		
	Regenerative Brake		
	High Beam Light/ Low Beam Light		
	Left Turn / Right Turn		
	Side Positioning Light		
	Error Alert		
Indication	Cruise		
	Connection (USB/Bluetooth/NFC)		
	Helmet Status		
	Charge Status		
	Tyre Pressure		
	E-ABS		
Control	Daylight Mode/ Dark Mode		
Control	Brightness		
	System Unit		
Settings	Trip Clearance		
Jettings	Gear Level		
	Mode		

	Smart App
	OTA
Advanced	Boot Logo/Animation
	Customised UI
	Customised Protocol

5. Size



6.Serial Code



1111: Customer Code

22: Protocol Code

333333: P.O. Date (YYMMDD)

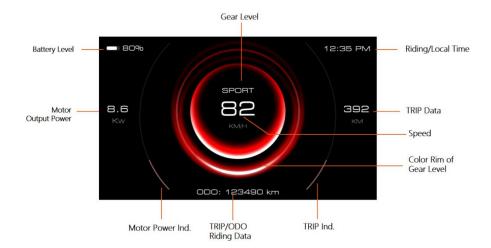
555: Order Receiving Number

6666: Production Date (YYMM)

${ m III.}$ Operation

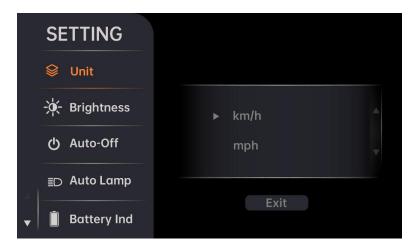
1. Display Interface

1.1 Riding Interface



- 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



In the above interface: Setting Item: System Unit, Parameter

Value: km/h

1.3 Error Interface

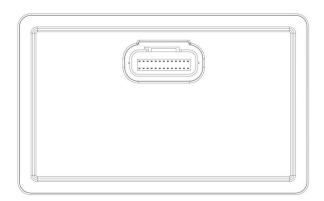


In the above interface: Error Indicator: ERROR, Error Note: Offline

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	
6-26	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 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.	Viberation Test Stand	Pass
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	Salt Spray Test Chamber	Pass

		customer requirements Concentration of sodium chloride solution: 5% ± 1%. PH of the solution: 6.5~7.2.		
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.