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Hanshow Polaris Max Series Product Manual

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V1.0.1

HS-ESL-EPDPQ001

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For more information, visit our website at: https://www.hanshow.com

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ABOUT THE MANUAL

This manual describes features, specification, package, and precautions of Hanshow Polaris. Pro-Qiseries Electronic Shelf Label (ESL) Products.

Please read this manual carefully before using the device for the first time, retain the manual. for subsequent use or for the next owner. If the instructions contained in this manual are insufficient to resolve issues that occur during device operation or maintenance, please. contact Hanshow Technical Customer Service Center (China: 400-0365-305; Netherlands: 0800-022-5037; Belgium: 0800-71-335; France: 0800-91-7602; Thailand: 1800-011-185) directly, we will provide you with multi-channel technical services.

TARGET USERS

This document provides engineers with necessary data and related guidelines of Polaris Pro-Qiseries. Users have to master the basic knowledge on communication and network and so on. This manual is applicable for the below engineers:

- Testing Engineer
- Technical Support Engineer
- After Sales Engineer
- Installation Engineer





SYMBOL DESCRIPTION

HS1288 C	lcon	Description		
	Δ	Information indicated with this icon should be paid special attention and attached great importance by the reader.		
	Ω	Information indicated with this icon is the explanation on the formal text for the readers to comprehend the text better.		
	[X-X]	It means special noun definition is provided here.		

EXPLANATION OF TERMS

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Acronym	Expanded form		Description
PriSmarc	PriSmart Smart System	Retail	Manage all store product data and issue price update command, as well as support multi-store management.
ESL-Working	ESL-Working System	U	Manage all the APs and ESLs in store, and ESL-Working 3.0 and above supports multi-store management.
ESL Controller	ESL Controller	2024-	Also called AP that is used for data interaction between ESL-Working and ESL Controller.
ESL #9 2	Confidential Electronic Shelf Label		Used for displaying product information like promotion information, price, and grade.







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1 Overview - 09-20

The Polaris Pro-Qiseries is Hanshow's newest generation Electronic Shelf Labels (ESLs). They adopt E-ink screen to achieve page switching light flashing, pricing and so on based on 2.4GHz wireless communication. With ultra-thin, extended life and high-definition visual. effects, the Polaris series widely serves traditional retail, new retail, department stores and fashion, pharmacies, culture, and entertainment.

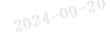
The features of Polaris series are as follows:

- Display colors include: BWRYBG (Black-White-Red-Yellow-Blue-Green) display.
- Operating frequency band: 2,402MHz ~ 2,480MHz.
- Supports NFC function.
- Supports AES-128 encryption.
- Supports OTA (Over-The-Air) upgrade.









2 Hardware performance

This chapter consists of:

Specifications

2.1 Specifications

Table 2-1 lists the Polaris Pro-Q specifications.

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Table 2-1 Polaris specifications

tial 2	024-09-20 Table 2-1 Polaris specifications	S
	Polaris Nac-1830	Polaris Nace 750
Product Dimensions (mm*mm*mm)	903.7*888.7*20.6	1781,1,1821,170,0
Active Display Area (mm*mm)	202,6*270.4	16800,820
Display Size (inchi	18.3	7.5
Resolution (pixel)	1200*1600	800°180
DPI	190	ÎT HS 1 Z
Display Color	Obeck/White/Red/Yellow/Blue/Green	Olack/White/Red/Yellow/Blue/Green
MFC	Support	Support
Working Temperature ¦°Cj	2024-09 c-10	0-10
Norking Humidity (%RH)	15-63	15-63

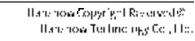
• Note:

3 Application scenarios

Polaris series are available to various zones and shelves of hypermarket, supermarket and __mcable to retail stores. The ESLs are applicable to areas with different fixtures:

Tables

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4 Precautions

During transportation and usage of Polaris series, please note the following precautions.

4.1 Transportation considerations

Avoid the following considerations during transport:

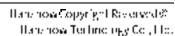
- Water leakage or heavy moisture.
- Heavy stacking.
- High heat conditions above 40°C.

4.2 Precautions for use

Follow the precautions:

- The room-temperature ESLs operate best in normal operating and storage environment, $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$, $30\% \sim 70\%\text{RH}$.
- Keep ESLs within the specified temperature range, otherwise ESL screens might be damaged and the battery life might be shortened.
- The output capacity will degrade at low remperature.
- Frequent communications or updates might shorten battery life during the use.
- Avoid dropping or tossing ESLs.
- Do not disassemble ESLs without permission.
- Do not disassemble ESL batteries.
- Do not scratch ESL bodies with sharp objects.
- Use Polaris dedicated disassembly tools when disassembling.
- The mineral substances in rainwater, moisture or liquids might corrode the electronic
 circuit. Avoid water on the product as much as possible.
- Regularly clean the screen.
- Promptly remove cosmetics, perfume and other dirty on ESLs to avoid screen, case, or lens damaged.
- Avoid direct contact with chemical detergent.
- Avoid direct sunlight or incandescent light on ESLs.
- Do not install ESLs in a strong magnetic environment.
- Do not place ESLs near or in a fire.
- Do not place ESLs near kitchen appliances such as a stove, a microwave oven.
- ESLs communications might be limited or affected by other wireless communication systems that share the 2.4GHz frequency-band, such as Wi-Fi, Bluetooth, or Zigbee.







5 FCC ID warning

5.1 Warning for nameplate

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

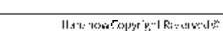
5.2 Warning for product manual

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

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 discuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- FCC Radiation Exposure Statement: The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body







6 IC statement[∞]

This device complies with Industry Canada's licence-exempt RSSs. 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.

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. Je es)

Confidential 2024-09-20 tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en HS1288 Confidential 2024-09-20 compromettre le fonctionnement

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7 UKCA statement

All products of the Polaris series comply with UK Conformity Assessed (UKCA) standards. Polaris products include 1.6", 2.0", 2.3", 2.5" and 2.8".



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