

User Manual

Cradle

Model : FZ135

Product Name: Holder

■ Revision history

Rev.	Date	Points modified	Changes description
00	9.Aug.2024		First Release
01	22.Aug.2024	2.4 3.1	Add Precautions Correct Electrical Specification
02	31.Oct.2024	2.4 4.1 4.3	Add Precations Modify the website address Delete Label printing position
03	4.Dec.2024	3.1	Corrected storage temperature range
04	10.Dec.2024	4.1 4.2.3	Modify the website address Add FCC (USA) certification
05	10.Dec.2024	4.2.3	Modify FCC (USA) certification
06	23.Dec.2024	3.1.1	Modify operating frequency
07	27.Dec.2024	3.1.1	Add RF output power

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1. Overview

This product is the Cradle intended for wireless charging of the Wireless Joystick for boat maneuvering

The system is composed of:

- The Cradle provides the following functions:
 - Transmitting Wireless Power to the Wireless Joystick



Figure 1-1 Cradle

1.1. Transmitting Wireless Power

- When the Wireless Joystick is attached to the Cradle, the Cradle provides wireless power from the antenna to the Wireless Joystick.

2. Installation notes

2.1. Cradle attachment

The Cradle is mounted near the boat's steering wheel or on the wall.

2.1. Access to Cradle internal parts

It is strictly forbidden to have access to the inner electrical components.

2.2. Product modifications

It is strictly forbidden to modify or tamper products.

2.3. If the product fails

All damaged components, must be replaced.

2.4. Precautions

1. Do not use the product with metal or foreign objects caught in it.
This may cause malfunction or abnormal heat generation.
2. Install the cradle at least 20cm away from the user's body.
3. The cradle is intended to be mounted less than 2m above the ground.

3. Technical Specification

3.1. Electrical Specification

Parameter	NOTE	MIN	NOM	MAX	UNIT
Nominal voltage	-	-	12	-	V
Operating voltage	-	8	-	16	V
Operating temperature		-18	25	+77	°C
Storage temperature	-	-40	25	+85	°C
Operating current	-	-	-	1	A
Standby current	-	-	-	100	mA

3.1. Wireless specification

3.1.1. Wireless Charging

Parameter	NOTE	MIN	NOM	MAX	UNIT
Operating frequency	-	134.01	136.75	139.49	kHz
Antenna type	Loop antenna	-	-	-	-
Modulation	ASK	-	-	-	-
Data rate	-	-	1200	-	bps
RF output power	Max	-	-	2	W

4. Certification

4.1. Manufacturer

Company Name	ASAHI DENSO CO., LTD.
Address	6-2-1 Somejidai, Hamana-ku, Hamamatsu, Shizuoka 434-0046, Japan
Website	https://en.ad-asahidenso.co.jp/

4.2. Approval of each country

4.2.1. Australia / New Zealand certification



4.2.2. EU DoC

EU DoC

4.2.3. FCC(USA) certification

Product name	Holder
FCC ID	T8VFZ135

This device complies with part 18 of the FCC Rules.

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.

4.2.4. Israel certification

מספר אישור אלחוטי של משרד התקשורת הוא XX-XXXX
אסור להחליף את האנטנה המקורית של המכשיר ולא
לעשות בו כל שינוי טכני אחר

4.2.5. UK DoC

UK DoC