PRODUCT RISK ASSESSMENT

Apparatus/Equipment

Product:	Window Cleaning Robot
Model:	GCJZ2558

Manufacturer Information

This risk assessment is issued under the sole responsibility of the manufacturer.

Name:	Chuangqian Mingjing (Suzhou) Technology Co., Ltd.
Address:	Room 1001, 10th Floor, Zhihui Valley Park Taihu Software Park 1451 Wuzhong Avenue Yuexi Street, Wuzhong Economic and Technological Development Zone Suzhou, Jiangsu Province
Country:	China

Product General Description

The Dreame C1 Station S is an autonomous window cleaning robot designed for hands-off maintenance of glass surfaces. The robot utilizes strong suction to adhere to windows and navigates in an efficient N-shaped pattern for comprehensive coverage. For user safety, it includes a long safety rope and an anti-fall system. An accompanying mobile app allows for remote control and scheduling, enabling fully automated cleaning cycles with minimal user intervention.

可参考 General Safety Assessment

If available, list the relevant European Directives or Regulations with which this product has complied.

Radio Equipment Directive (RED) 2014/53/EU
Restriction of the use of certain hazardous substances (RoHS) 2011/65/EU
Ecodesign Requirements for energy-related products (ErP) 2009/125/EC
REACH Regulation EC 1907/2006
Persistent organic pollutants (POPs) REGULATION (EU) 2019/1021
Waste electrical and electronic equipment (WEEE) Directive 2012/19/EU
Packaging and packaging waste Directive 94/62/EC
Batteries and waste batteries Regulation (EU) 2023/1542

If available, list the relevant European standards with which this product has complied.

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021 + A16:2023
EN 60335-2-54:2008 + A11:2012 + A1:2015 + A12:2021 + A2:2021
EN 62233:2008
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021
EN 301 489-1 V2.2.3
EN 301 489-17 V3.3.1
EN 300 328 V2.2.2
EN IEC 62311:2020
EN 18031-1:2024

Particular Safety Assessment

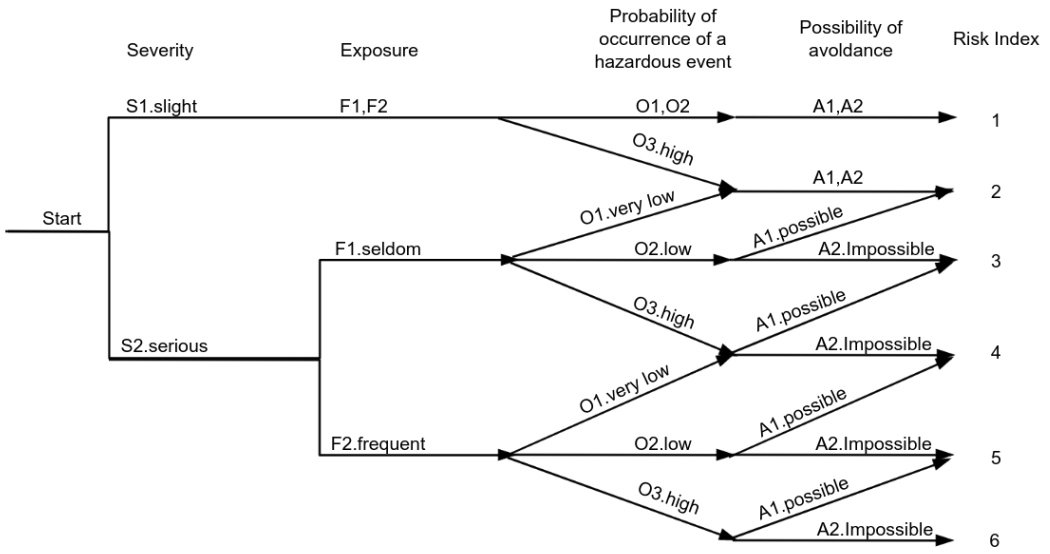
No.	Risk Description	Risk Level LOW/MEDIUM/HIGH	Risk Analysis and Risk Reduction Not related/description
1	Risks due to the characteristics of the product such as its design, technical features, composition, packaging, instructions for assembly, installation, use and maintenance.	**LOW**	**Not related**
2	Risks to the safety of other products when this product is used together with other products.	**LOW**	**Not related**
3	Risks to the safety of this product when worked together with other products.	**LOW**	**Not related**
4	Risks come from the missing or misleading product information.	**LOW**	**Not related**
5	Risks come from vulnerable or gender-specific consumers using the product.	**LOW**	**Not related**
6	The appearance of the product can be easily confused with food, posing a risk of swallowing or sucking by children.	**LOW**	**Not related**
7	Products not designed for children pose a risk because of	**LOW**	**Not related**

	their design, packaging or features that are likely to attract children or be easily used by children.		
8	Product safety risks due to lack of proper cybersecurity security protection, such as data or connection loss.	**LOW**	**Not related**
9	Risks on the product evolving, learning and predictive functionalities.	**LOW**	**Not related**

Risk Level

Risk Index	Risk Level	Hazardous Situation
1	LOW	Lowest Risk
2		
3	MEDIUM	Medium Risk
4		
5	HIGH	Highest Risk
6		

Risk Graph
Risk Estimation Process reference to ISO 14121.

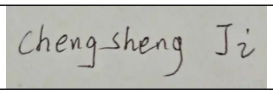


Definitions

Severity	S1	slightly injury (usually reversible; examples: scratch, laceration, bruise, light wound requiring first aid, etc.) nor more than two days incapable of performing the same task;
	S2	serious injury (usually irreversible, including fatality; examples: broken or torn-out or crushed limb, fracture, serious injury requiring stitches, major musculoskeletal trauma (MST) etc.). More than two days incapable of performing the same task.
Exposure	F1	Seldom to quite often and/or short duration of exposure;
	F2	Twice or less per work shift or less than 15 min cumulated exposure per work shift;
Probability of Occurrence of a Hazardous Event	O1	Frequent to continuous and/or long duration of exposure
	O2	More than twice per work shift or more than 15 min cumulated exposure per work shift.
	O3	Low (so unlikely that it can be assumed that occurrence may not be experienced)
Possibility of Avoidance	A1	Mature technology, proven and recognized in safety application; robustness.
	A2	Medium (likely to occur sometime)

Risk Assessment Conclusion

After adequate product risk assessment, this is a low-risk product.

Signed for and on behalf of	Chuangqian Mingjing (Suzhou) Technology Co., Ltd. Room 1001, 10th Floor, Zhihui Valley Park Taihu Software Park 1451 Wuzhong Avenue Yuexi Street, Wuzhong Economic and Technological Development Zone Suzhou, Jiangsu

	Province
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Signature: