

Product Specifications	
Product name	S-Guard
Model number	SG-L-01
Issue date	2019/12/18
Specification number	TDR-SPC-SG-L-01-100
Rev	1.00

タカヤ株式会社

FCC Regulations

- 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 (2) this device must accept any interference received, including interference that may cause undesired operation.
- 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 circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/ TV technician for help.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Notice

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.

L'appareil est conforme au RSS d'exemption de licence d'Industrie Canada. Les opérations sont soumises aux deux conditions suivantes:

- (1) Cet appareil ne peut pas causer d'interférence; Et
- (2) l'appareil doit accepter toute interférence, y compris celles qui peuvent entraîner un fonctionnement indésirable de l'appareil.

IC Radiation Exposure statement

This device complies with IC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

L'appareil est conforme aux limites d'exposition au rayonnement IC spécifiées dans un environnement non contrôlé. Afin d'éviter la possibilité de dépasser la limite d'exposition aux RF LC, le corps humain ne doit pas être à moins de 20 cm de l'antenne pendant le fonctionnement normal.

製品名 : S-Guard

製品型番 : SG-L-01

タカヤ株式会社

CE Statement

This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body.

Here by, TAKAYA Corporation declares that the radio equipment type SG-L-01 is in compliance with the Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: 661-1 Ibara-cho, Ibara-shi, Okayama, Japan

<https://www.takaya.co.jp>

CAUTION : RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Adapter: Adapter shall be installed near the equipment and shall be easily accessible.



Contents

FCC Regulations	2
FCC RF Radiation Exposure Statement.....	2
1 Scope of application	5
2 Name of each part.....	5
3 Specifications.....	6
3.1 MAIN UNIT SPECIFICATIONS	6
3.2 ACCESSORY SPECIFICATIONS	8
3.2.1 AC adapter(model : SG-L-01-AC)	8
3.2.2 Rubber feet	9
3.2.3 Bush.....	9
3.3 OPTIONAL ITEMS SPECIFICATIONS.....	10
3.3.1 Self supporting platform (型番 : BASE-SG-L)	10
4 Change log.....	11

1 Scope of application

This document Applies to security devices using a frequency of 115 kHz.

2 Name of each part

SG-L-01 Names and functions of each part are explained.



No.	名称	機能説明
①	Fixer mounting hole	Used to connect fixer when ceiling mounted
②	Upper cover	
③	Main body	
④	DC cable outlets	Cable outlet for stationary use
⑤	Output Adjustment SW	Output mode : 0、1 (App priority mode) Output Adjustment SW : 2 (Min) ~9 (Max) (8stage)
⑥	Status LED	Status for display (lighting : on operation, flashing : error)

3 Specifications

3.1 Main unit specifications

■ Specifications

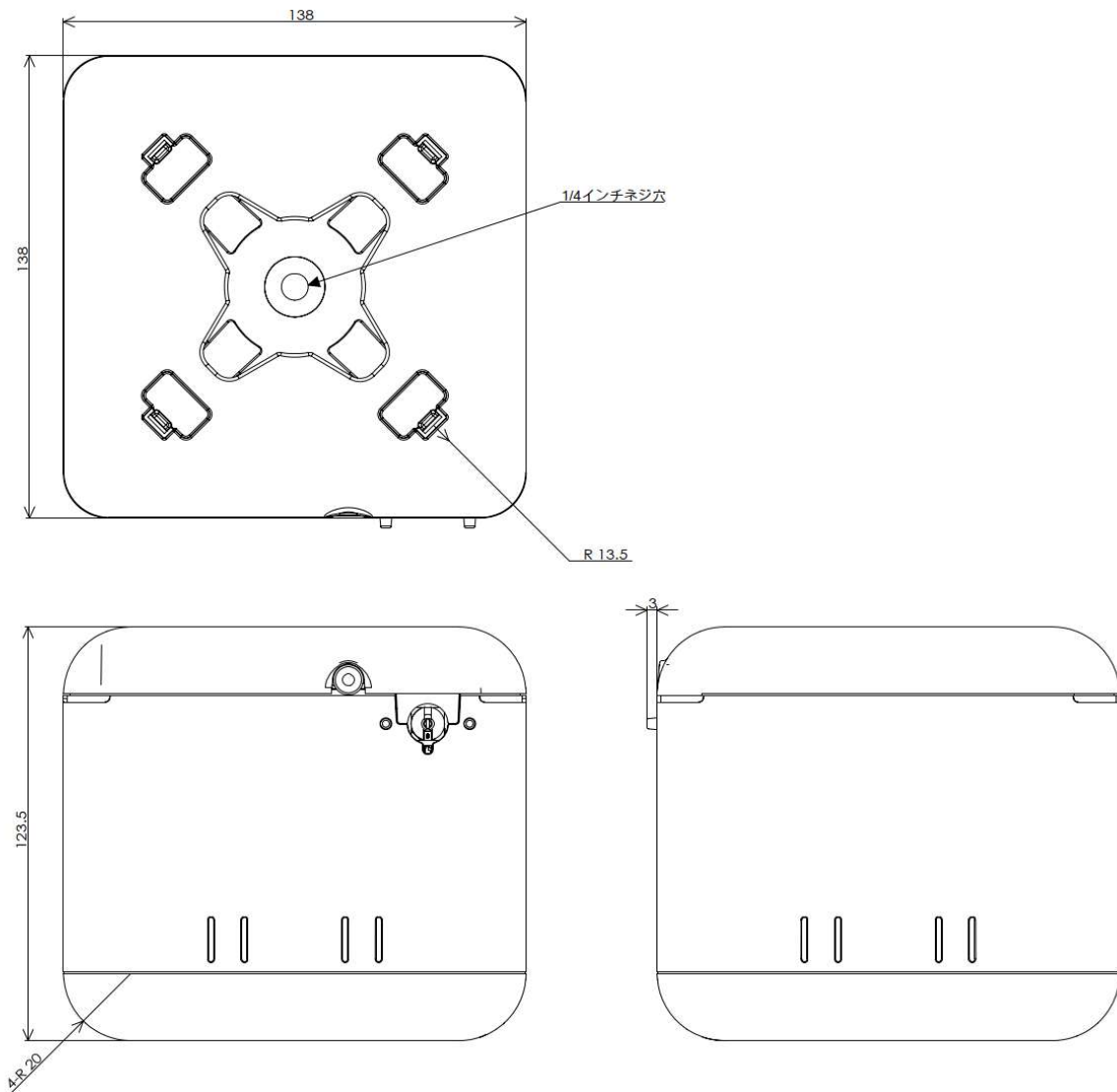
Specifications	items	detail
compatible standards	Japanese radio law	Standard name : inductive communication equipment
	CE	
	FCC	
	RoHS	European RoHS Directive (2011/65/EU)+(EU 2015/863)Support
Electrical Characteristics	Supply voltage	DC+12 (V) $\pm$ 10 (%)
	Current Consumption	Under 3.0 (A)
	Power Consumption	Under 36 (W)
	Transmission frequency	Center frequency : 115.1kHz (Configurable via PC)
	Frequency Bandwidth	Center frequency $\pm$ 800 (Hz) (Standard)
	Operating temperature terms	10 $\sim$ 40 (°C)
	Operating humidity terms	30 $\sim$ 85 (%RH) (No condensation)
	Tag operation distance ※1	Wi-dimo tag Attached type (WD-M-AT) : 4.5 (m) Lanyard type (WD-M-WI) : 4.5 (m) Lanyard type (WD-M2-WI) : 4.5 (m)
Mechanical specifications	unit	138 (W) $\times$ 138 (D) $\times$ 123.5 (H) (mm)
	Weight (Main body)	約 750 g
	Body color	white
	materials	Plastic Case part (ABS)、 Antenna structure part (ABS+PC)
	Port	Power input (Terminal block) 1 line Slave input (Terminal block) 1 line Slave output (Terminal block) 1 line 232C transmission 1 line Lamp lighting output 1 line
		※Terminal block Single line : Φ 0.4mm $\sim$ Φ 1.2mm (AWG26 $\sim$ AWG16) Twisted line : 0.2mm $\sim$ 1.25mm (AWG24 $\sim$ AWG16) bare wire over Φ 0.18mm

※1 May vary depending on the installation environment and installations

■ Corresponding fixer

Specifications	item	details
Mechanical specifications	Supported screws	1/4-20UNC
	allowable limit of load	Over 4(kg)

■ Dimentions



Tolerance : $\pm 1\text{mm}$
unit : mm

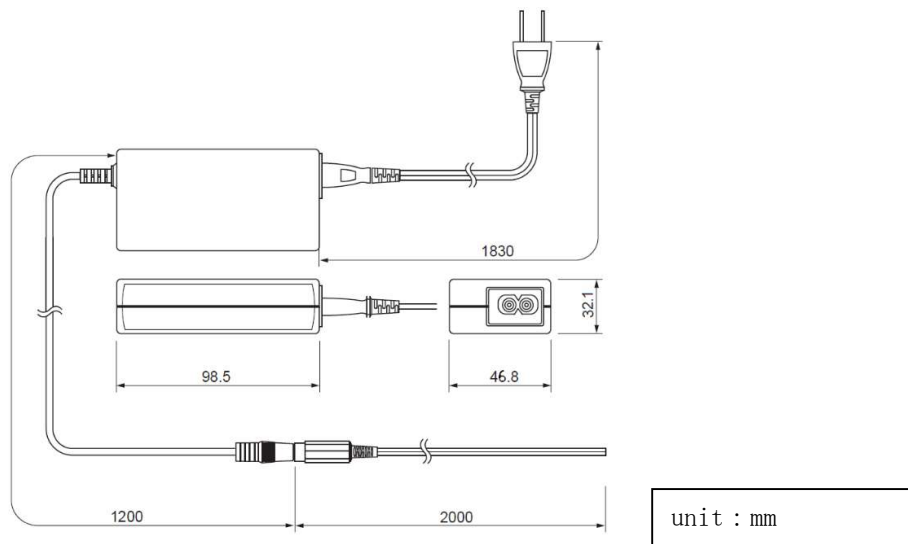
3.2 Accessory specifications

3.2.1 AC adapter(model : SG-L-01-AC)

■ Specifications

specifications	項目	内容
compatible standards	EMI standards-compliant product	VCCI CLASS B, FCC class B, CISPR 22 class B
	Compliance with safety standards	UL60950-1, 電気用品安全法
	RoHS	European RoHS Directive (2011/65/EU)+(EU 2015/863) support
	United States of America Energy Regulation (DOE)	Level VI standard
Input specifications	Rated input voltage	AC100V~AC240V
	Frequency	50~60Hz
Output specifications	Rated output voltage	DC12.0V±5%
	Rated input electric current	3.8A
	Output polarity	Center plus
	plug shape	φ 5.5×2.1 DC PLUG
Mechanical specifications	Weight	約 300 g
	External Dimensions	98.5×46.8×32.1 mm
	Cable length	AC cable part : 約 1830 mm DC cable part : 約 1200 mm DC relay cable : 約 2000 mm
Environmental Characteristics	Operating temperature terms	0~40℃
	Operating humidity terms	5~95%RH
	Storage temperature	-20~65℃
	Storage humidity	5~95%RH

■ Dimentions



3.2.2 Rubber feet

■ Specifications

Specifications	item	detail
Mechanical specifications	Weight	約 0.3 g
	External Dimensions	φ 11.2×5.1mm
	Materials	polyurethane
	Amount	8pcs

3.2.3 Bush

■ Specifications

Specifications	item	detail
Mechanical specifications	Weight	約 0.2 g
	External Dimensions	φ 9.0×3.7mm
	Amount	1pcs

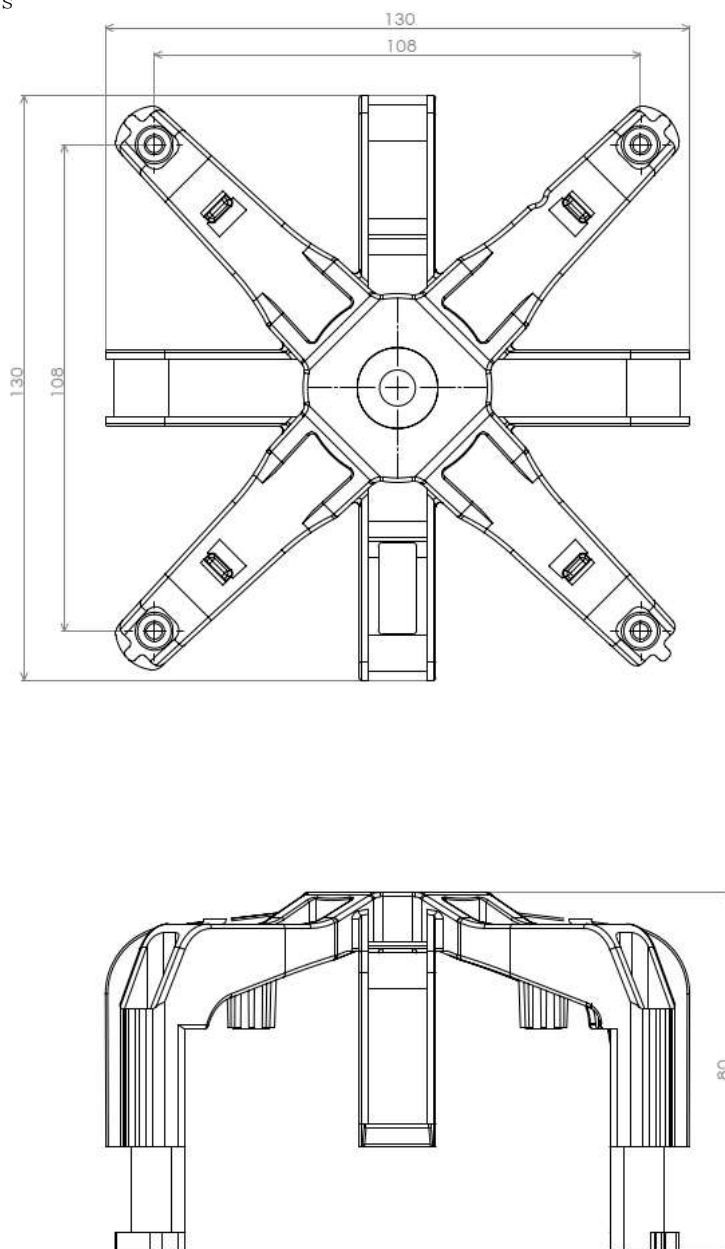
3.3 Optional items specifications

3.3.1 Self supporting platform (型番 : BASE-SG-L)

■ Specifications

Specifications	Details
RoHS	European RoHS Directive (2011/65/EU)+(EU 2015/863) support
Dimintions	130×130×80 mm
Weight	約 145 g
Color	White
Materials	ABS+PC
Optical items	All screws for mounting (1/4-20UNC All length20mm)

■ Dimintions



Tolerance : $\pm 1\text{mm}$
unit : mm

4 Change log

Ver No	日付	内容
1.00	2019/12/18	New issue

製品名 : S-Guard
製品型番 : SG-L-01

タカヤ株式会社

TAKAYA Corporation Business Development Group RF Division
[URL] <http://www.takaya.co.jp/>
[Mail] rfid@takaya.co.jp

Specifications are subject to change without notice for improvement.