

# tēmi

THE PERSONAL ROBOT

## S1-CE Technical spec

REVISION-02

11 / 23 / 2020 | ENG



# CONTENT

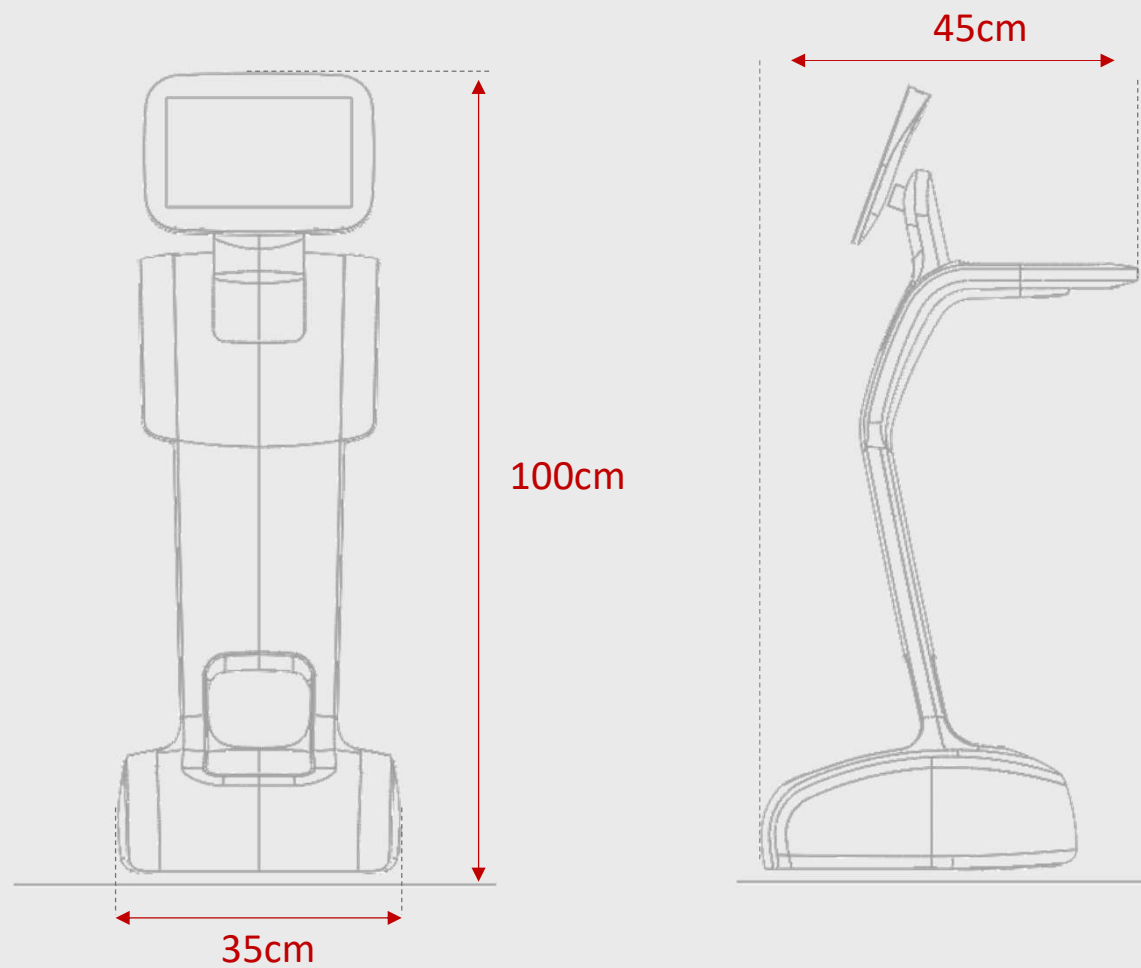
- Robot Dimensions
- Package dimensions + structure
- Palletization
- Storage conditions
- General performances
- Sensors coverage
- General Spec
- Tablet spec
- Battery performances + Spec
- Accessories

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# ROBOT DIMENSIONS

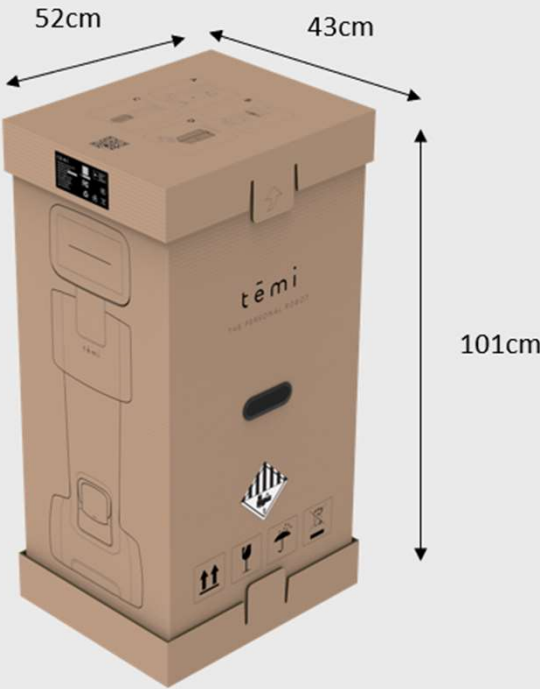
Item	Weight[kg]
Robots WO battery	12
HB	1.3
Battery	1.2kg



# PACKAGE DIMENSIONS

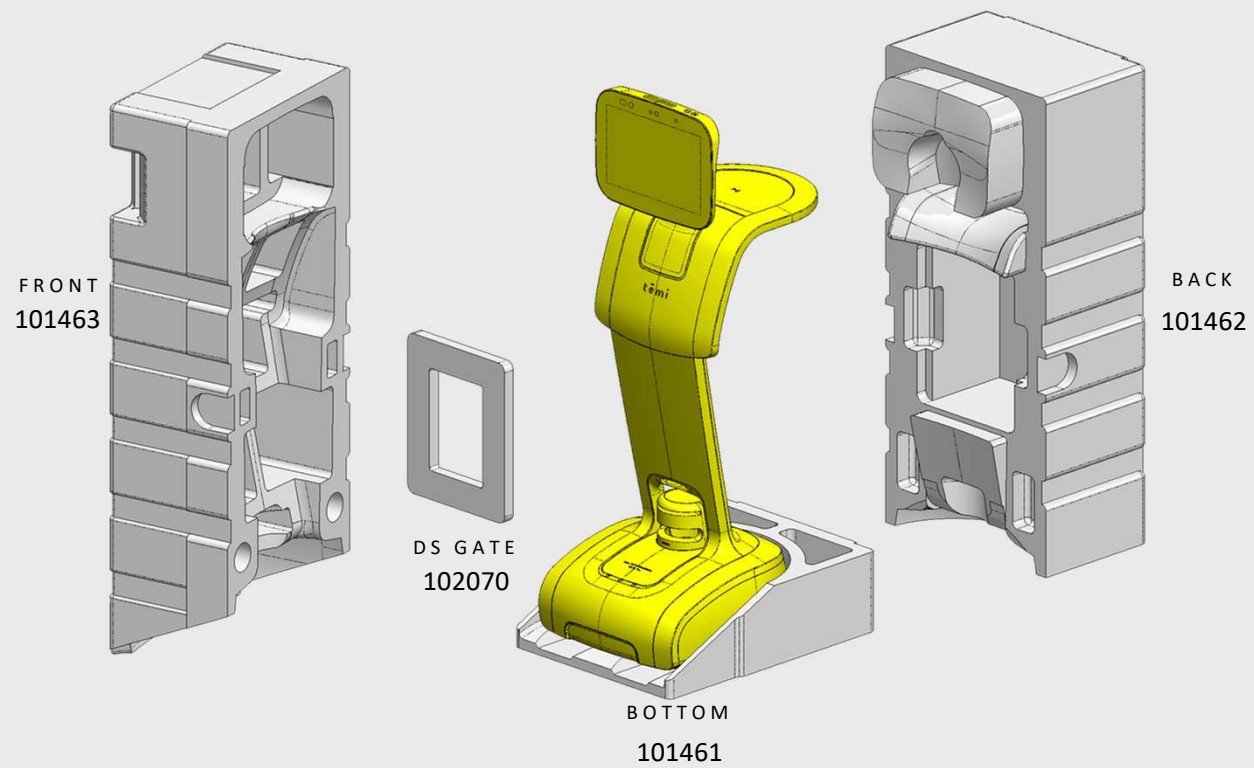
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Item	Weight[kg]
Empty package	9.2
Fully packed robot	24.1



# PACKAGE STRUCTURE

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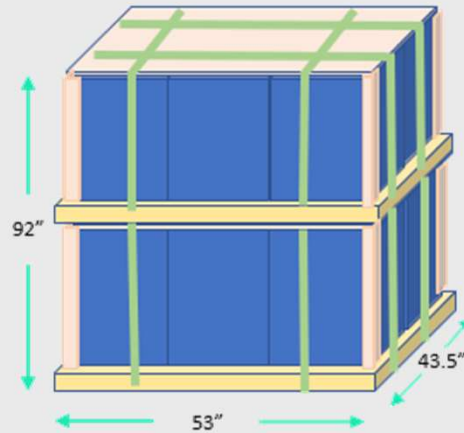


# PALLETIZATION

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## Pallet:

- 1 pallet size with 6 units temi: 53"L X 43.5"W X 46"H
- 6 units per pallet, double stacked, total height: 92"
- Pallet gross weight: 330 lbs



Loading in container (High 40') -  $17 \times 2 \times 6 = 204$  units per container



## STORAGE CONDITIONS

Item	Units	Value
Environment		Indoor conditions
Humidity range	%	15-65
Recommended Humidity	%	<60
Temperatures range	°C	0-45
Recommended Temperature	°C	25
Sunlight		Avoid direct sunlight

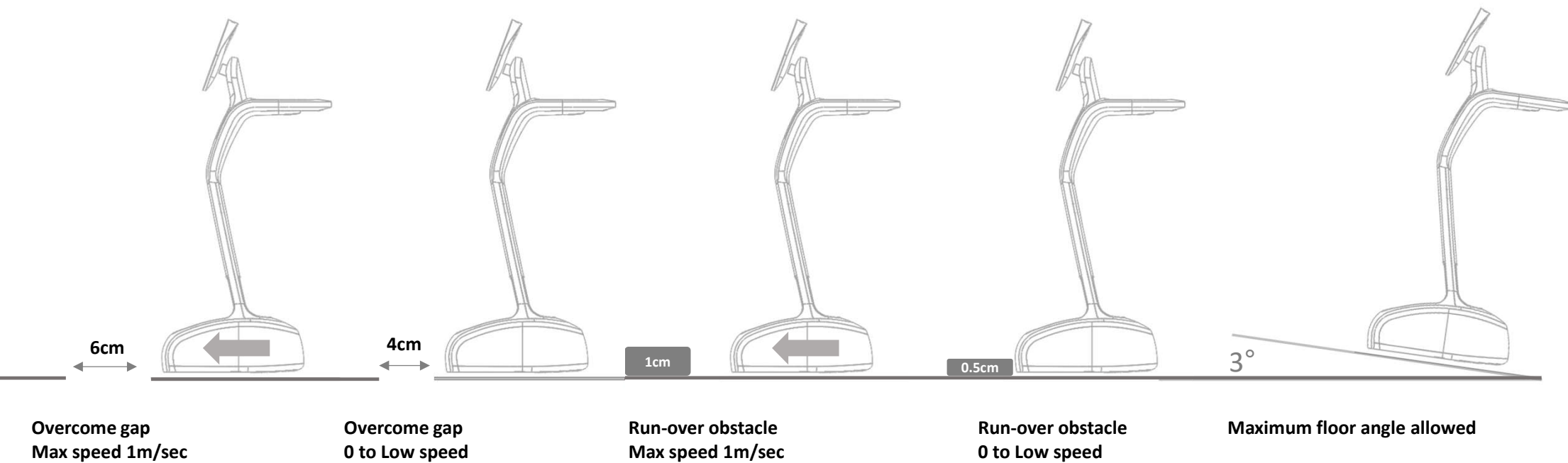
# GENERAL PERFORMANCES

Category	Item	Value
Follow	Speed (maximum)	1.2m/sec
	Recommended detection distance	~0.6m
	Max detection distance	2m
	Max follow distance	3m
Go-To	Speed	0.9m/sec
	Locations accuracy	0.1m (map depending)
Remote control	Speed (maximum, linear)	0.9m/s
Floor conditions	Maximum obstacle to climb over	0.5 cm, static 1 cm at 1 m/s
	Maximum gap width	4 cm, static 6 cm, at 1 m/s
	Floor angle	< 3°
Mapping	Maximum map size	100mX100m
	Maximum locations allowed	200 (v121)



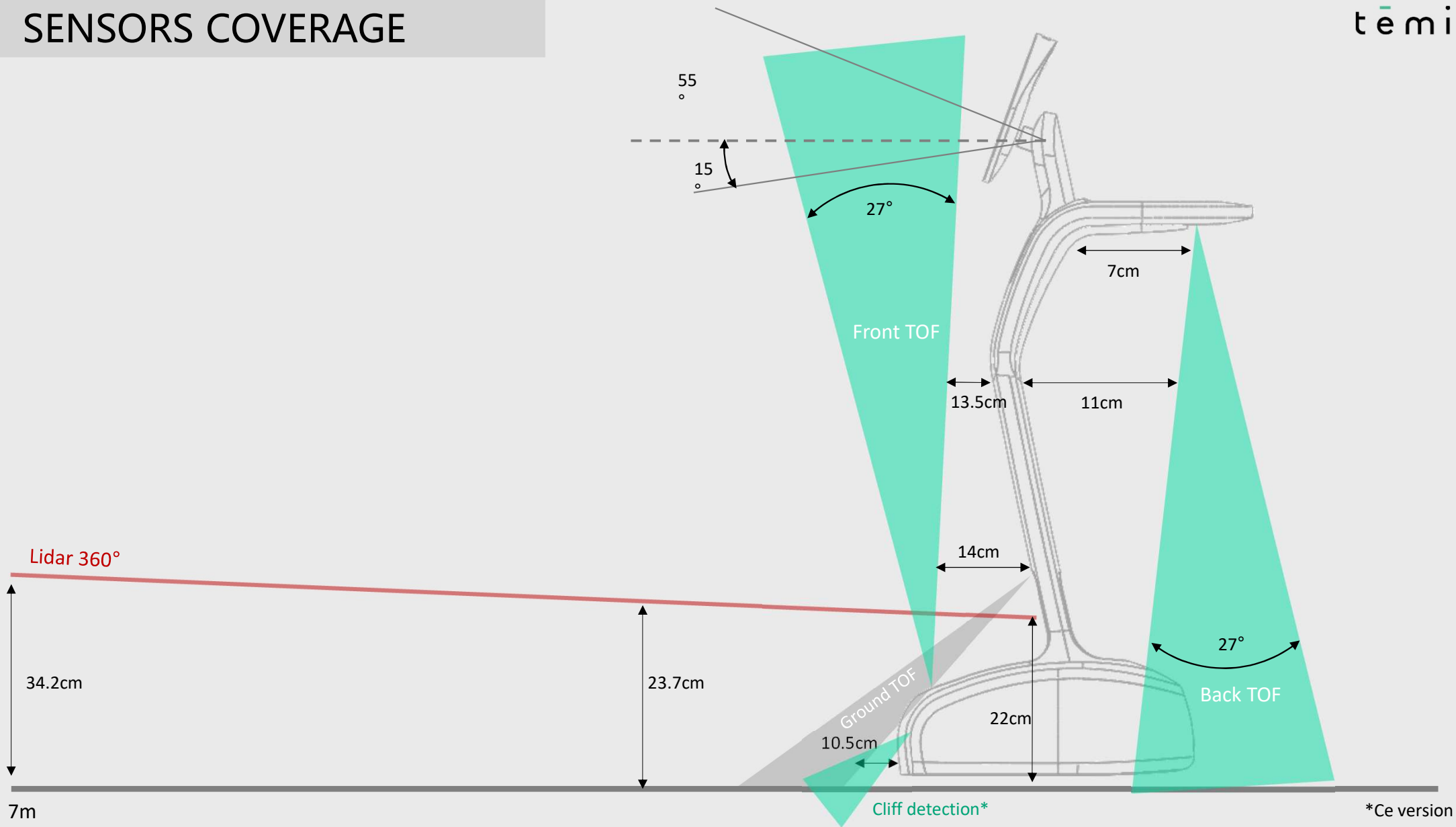
# GENERAL PERFORMANCES

Floor angle / gaps / bumps



# SENSORS COVERAGE

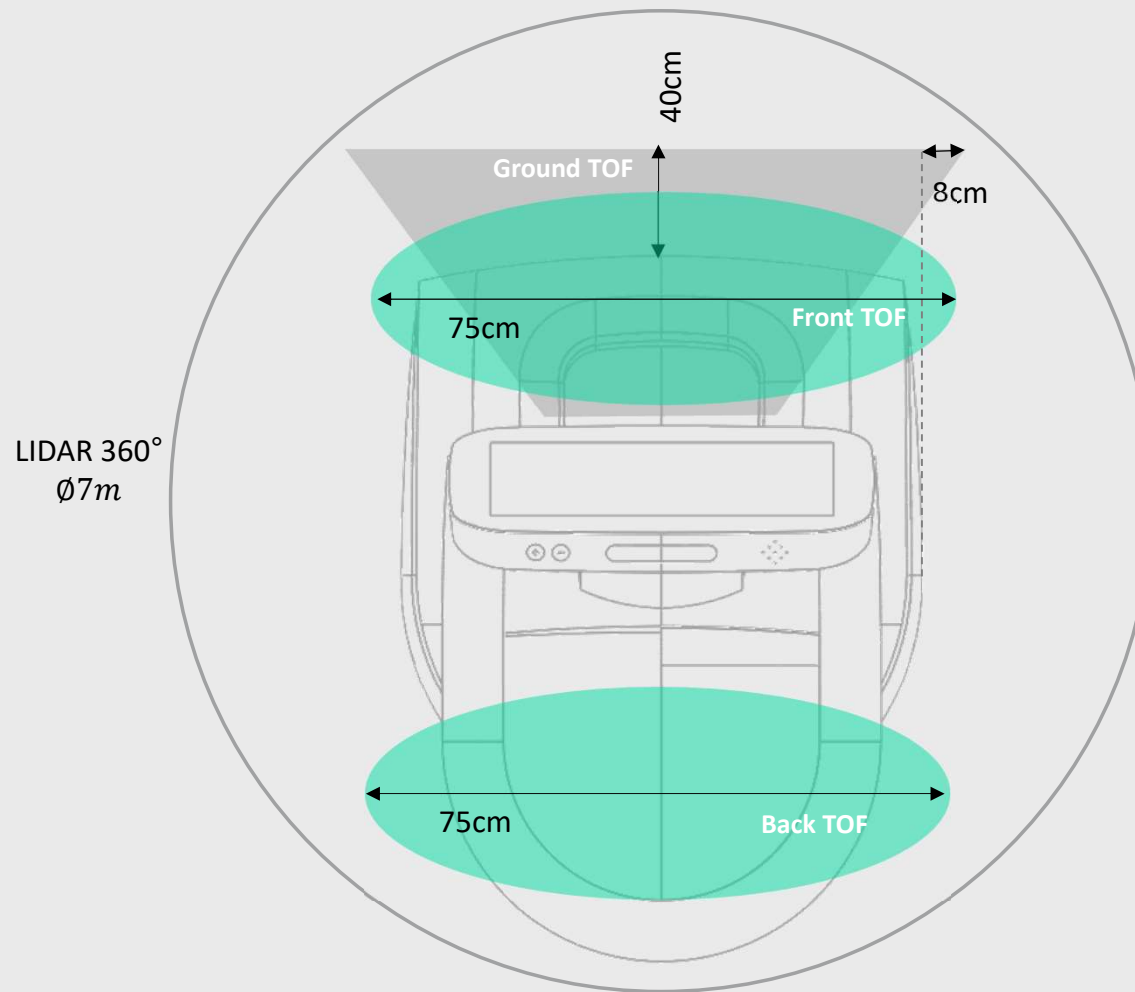
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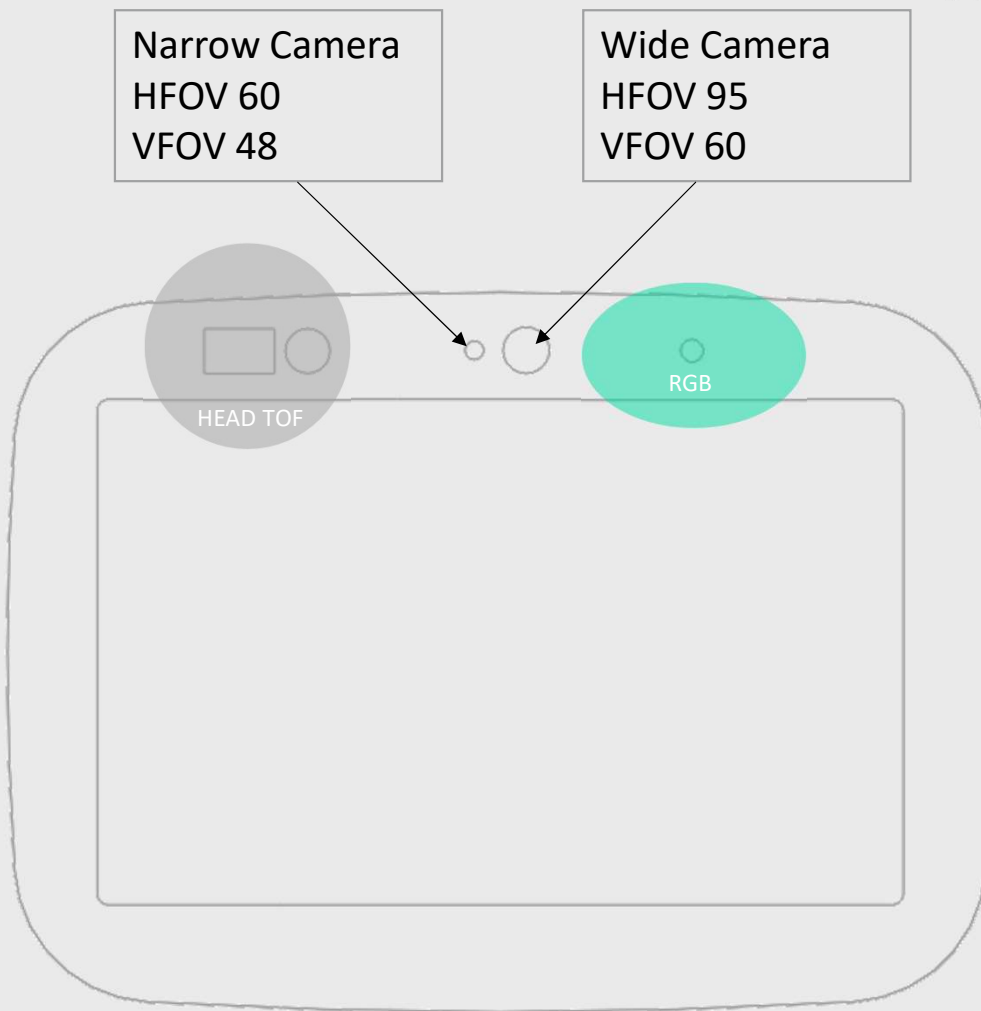
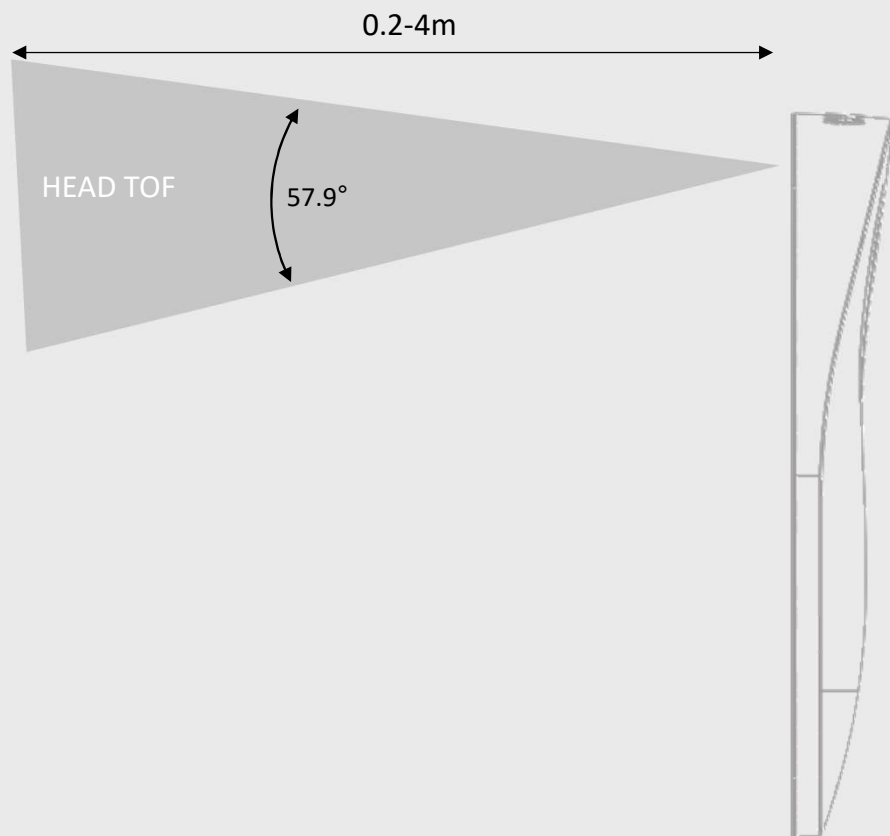
\*Ce version

# SENSORS COVERAGE

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# SENSORS COVERAGE



# GENERAL SPEC



47dB at 0.5m

0.5m



# GENERAL SPEC – CE VERSION



41dB at 0.5m

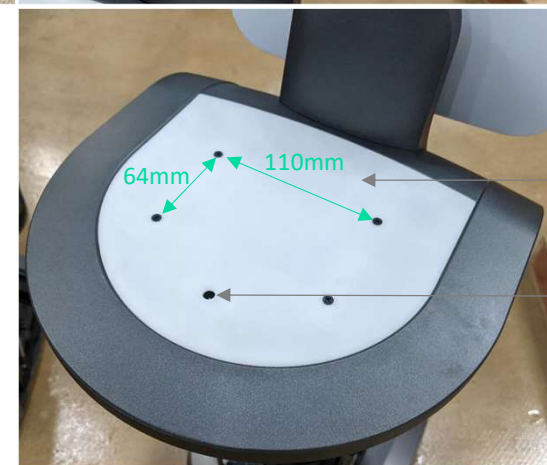


CE certified cliff detection sensor



Head USB socket:

- Standard type A USB
- 5V / 0.9A
- Access to Android



Tray accessories  
attachment M4 screw

Tray power outlet:

- Power barrel jack  
694106402002
- 12V / 1.2A

# TABLET SPEC

Item	value
Android version	Android 6
CPU	Quad-core Cortex-A17 1.8GHz
Memory (*CE version)	LpDDR3 2GB / *LpDDR4 2GB
Flash	EMMC5.0 16GB
Display size	10.1"
Max Brightness	340 cd/m2
Display resolution	1200 X 1920
Wide camera	13MP High resolution, Fixed focus, 1080P@30FPS, FOV 90°, digital zoom
Narrow camera	13MP High resolution, autofocus, 1080@30FPS, FOV 60°, digital zoom
Supported languages	EN / CN / KR / JP / DE / TH / HK / TW
Available storage	7GB
Wi-Fi	802.11 b/g/n/ac
Bluetooth module	4.1BLE

# BATTERY PERFORMANCES / SPEC

Performances	Item	value
	Charging time 0-100% powered on	4.5h
	Charging time 0-100% powered off	3.5h
	Working time – normal usage	8h
	Working time – heavy usage	4-5h
	Return to HB level	15%
	Life cycle (25°)	>500 charging cycles*

SPEC	Item	value
	Cell type	Li-Ion
	Battery output	12-16.4V
	Charging voltage	16.8V
	Fully charged voltage	16.4V
	Return to HB voltage	13.308-13.335V

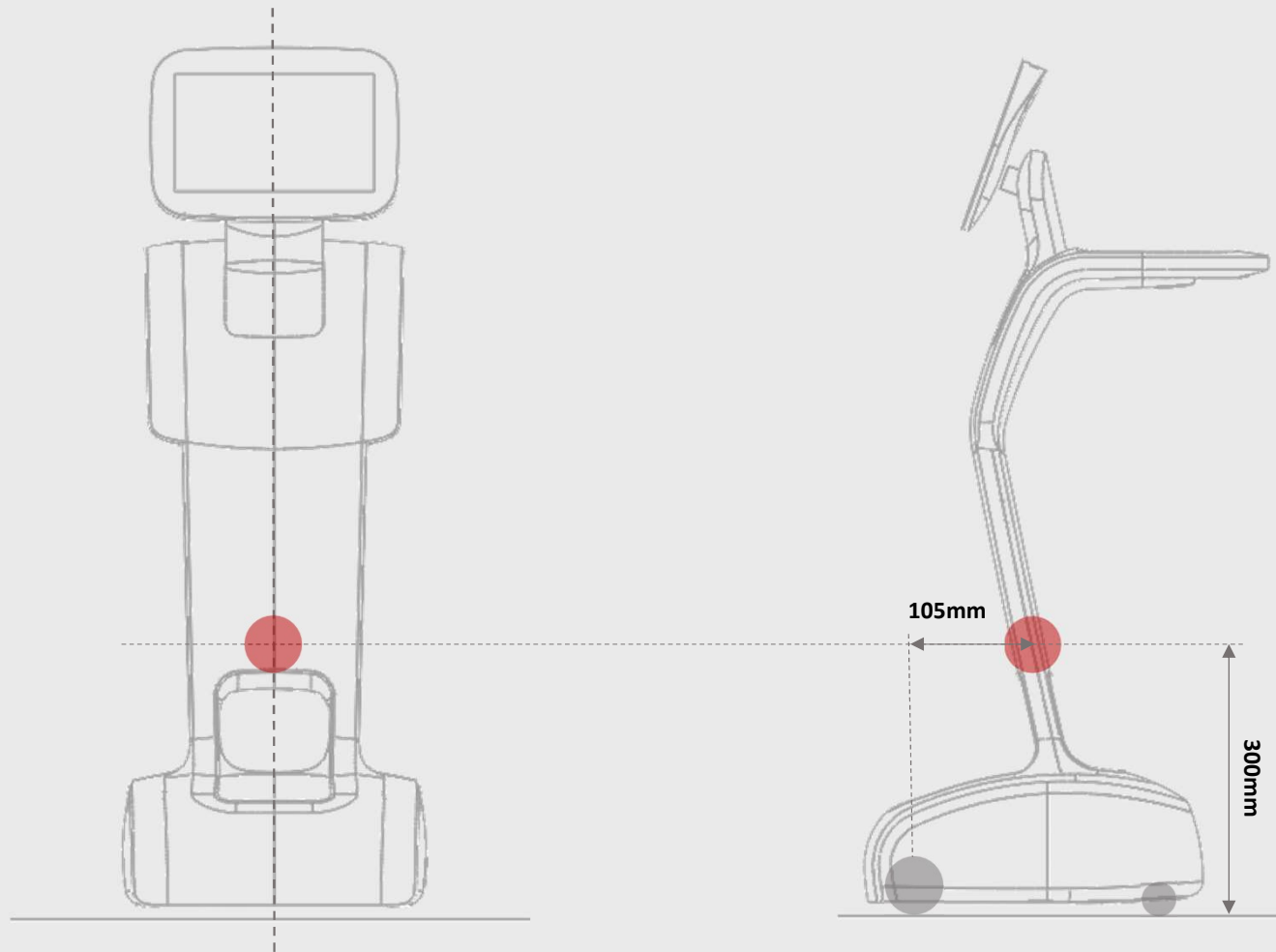


\*After 500 charging cycles maximum capacity will degraded to 70% and lower



## ACCESSORIES – CENTER OF MASS

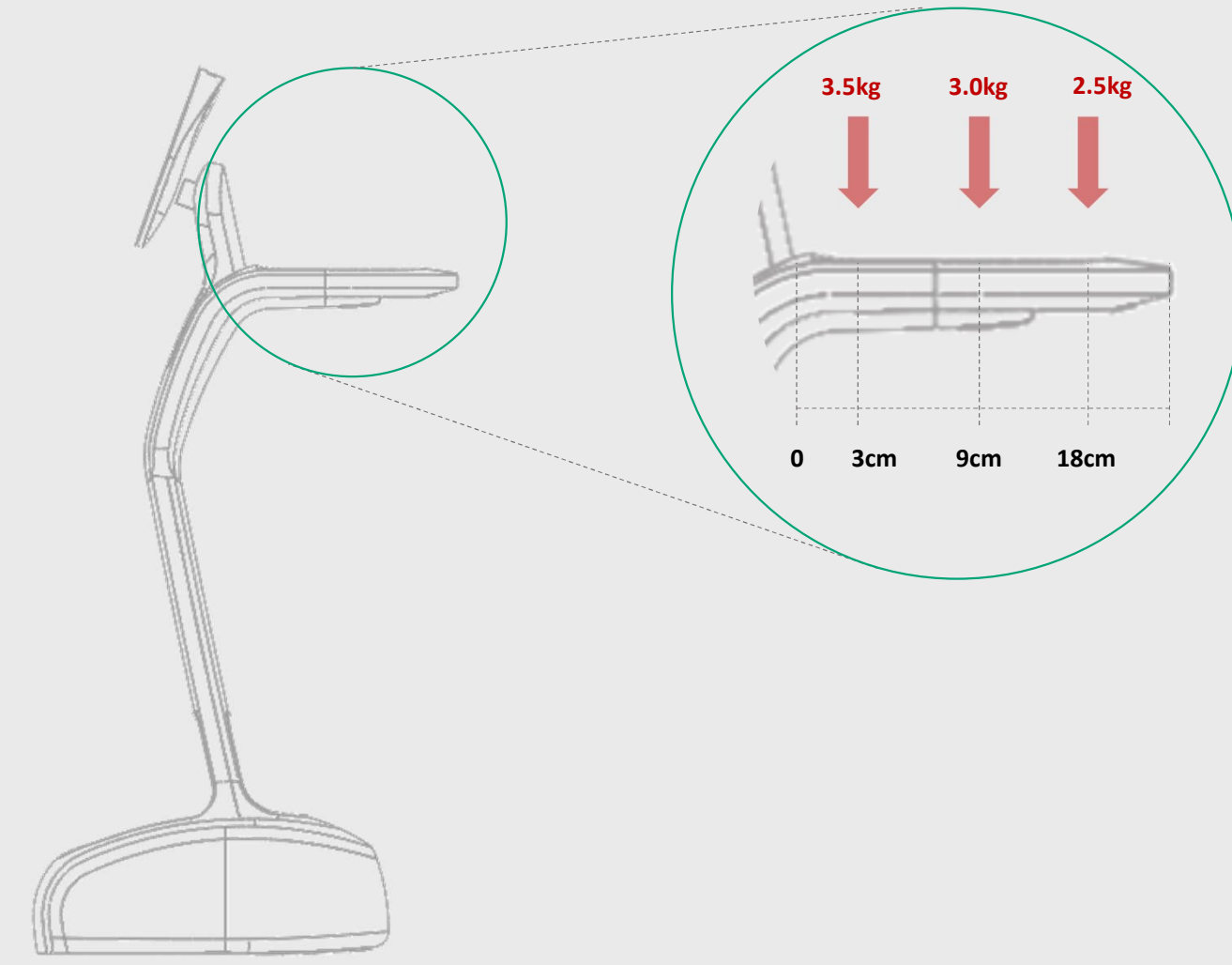
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## ACCESSORIES – MAX LOAD ON TRAY

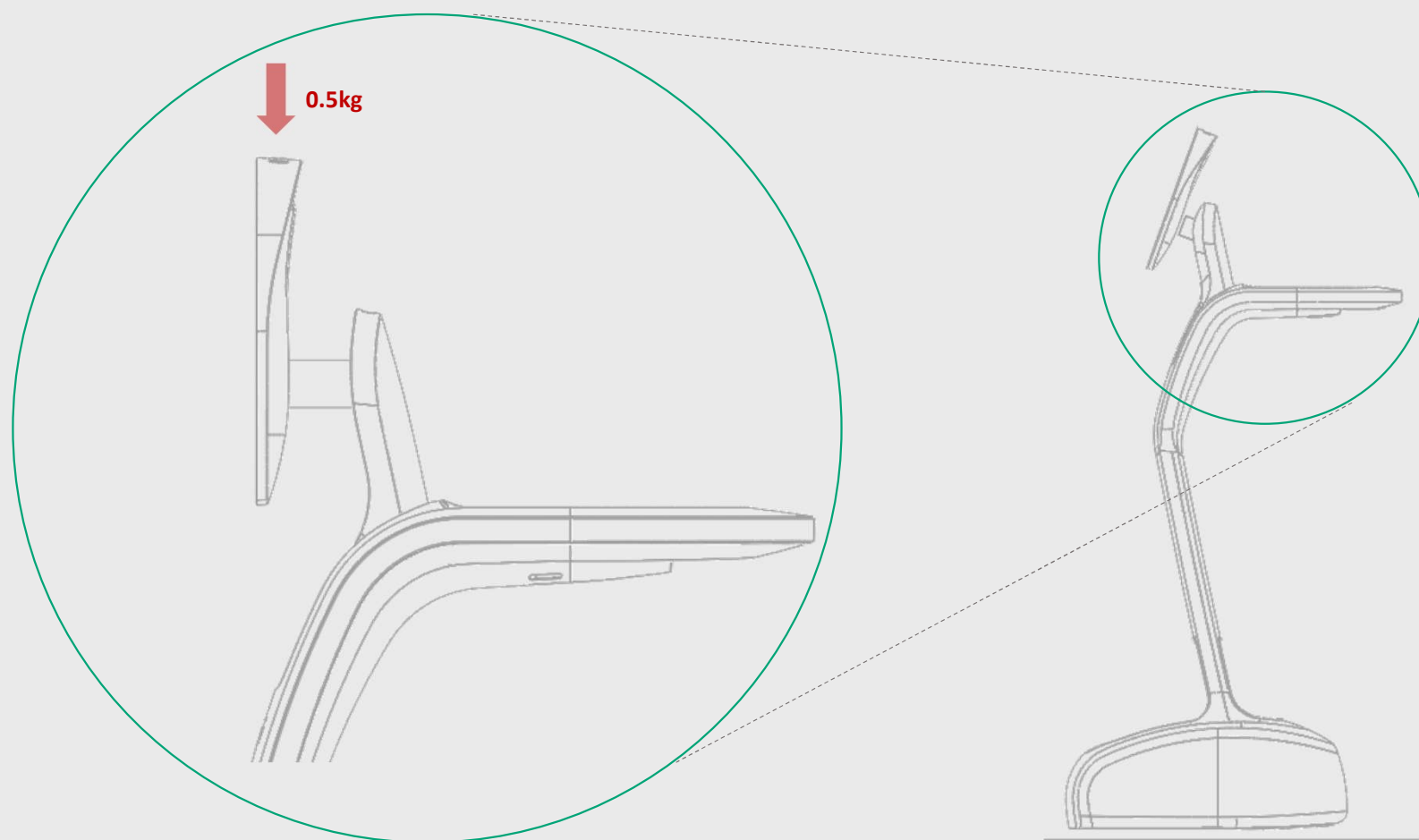
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Maximum load allowed  
**3.5kg**



## ACCESSORIES – MAX LOAD ON HEAD

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THANK YOU



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