tēmi

THE PERSONAL ROBOT

S1 Technical spec

REVISION-11

IDEAL LOBBY

WWW.IDEALLOBBY.COM

877.833.7575 x 722 or Sales



DISCLAIMER

- Any information regarding features and performances in this document is evaluated or approximate.
- Features and performances may change from time to time.
- Features and performances are mostly related to SW version. The Spec will be updated accordingly.
- In case of mismatch between this document and a new version release-note, the release note is determinative
- Performances may differ between devices.
- Performances are very much affected by the environment, use cases and conditions.

IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

CONTENT

- Configurations:
  - Main difference
  - General Spec
  - Sensors spec
  - Noise level
- General performances
- ROBOX General SPEC
- Tablet Spec
- Battery performances + Spec
- Certifications
- Security
- Robot Dimensions
- Package dimensions + structure
- Palletization
- Storage conditions
- Sensors coverage
- Accessories



temi

IDEAL LOBBY
sales@idealloby.com
+1(949)620.6262

CONFIGURATIONS-GENERAL SPEC-TEMI S1 V3



IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

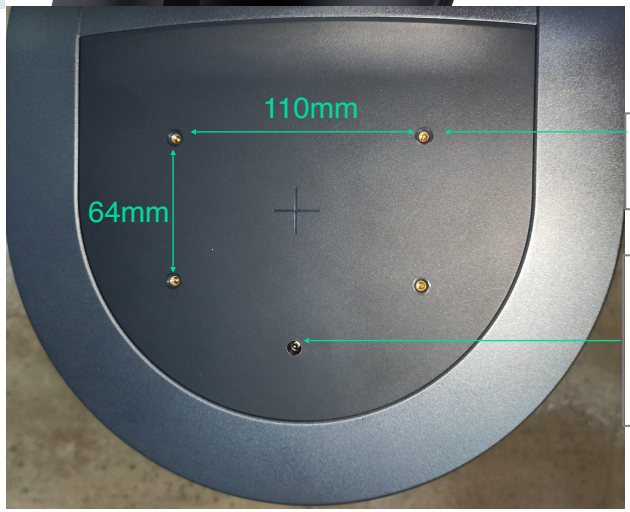
CONFIGURATIONS-GENERAL SPEC – -TEMI S1 V3

CE certified cliff detection sensor





Head USB socket:
- 1 USB 3.0 port TYPE-C
- 1 USB 2.0 port TYPE-A
- Supports 4G USB dongle
- Supports external USB camera
- Supports common USB devices
- Access to Android

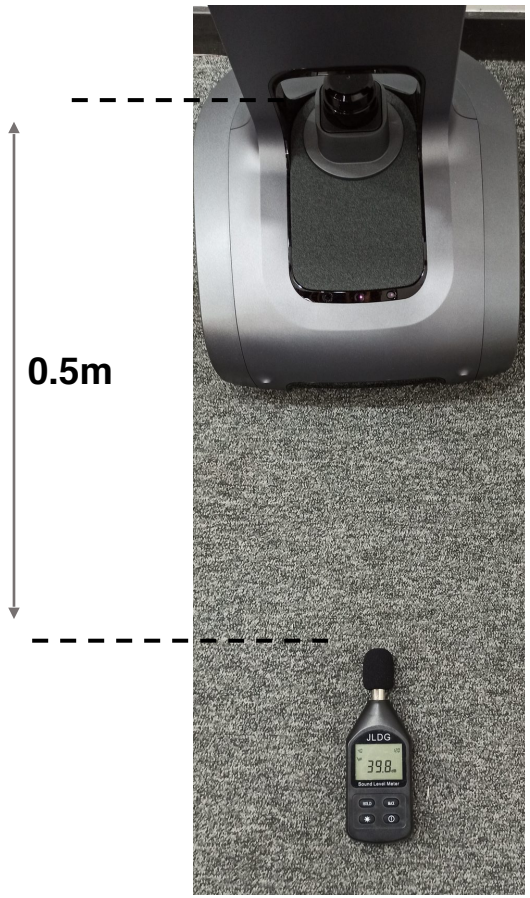


Tray accessories attachment M4 screw

Tray power outlet:
- Power barrel jack 694106402002
- 12V / 1.2A

IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

CONFIGURATIONS-NOISE LEVEL



V3: 40dB at 0.5m

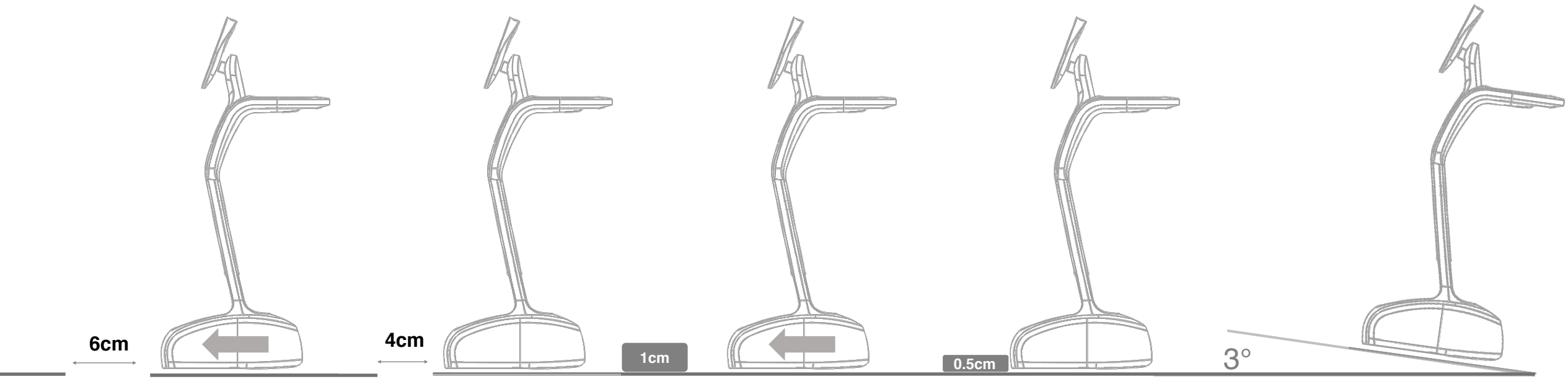
GENERAL PERFORMANCES

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 (Recommended)

IDEAL LOBBY
sales@idealllobby.com
+1(949)620.6262

GENERAL PERFORMANCES

Floor angle / gaps / bumps



Overcome gap
Max speed 1m/sec

Overcome gap
0 to Low speed

Run-over obstacle
Max speed 1m/sec

Run-over obstacle
0 to Low speed

Maximum floor angle allowed

IDEAL LOBBY
sales@idealllobby.com
+1(949)620.6262

ROBOX GENERAL SPEC

Item	Units	Value
CPU		RK3399 Dual-core Cortex-A72 1.8GHz Quad-core Cortex-A53 1.4GHz
OS		Ubuntu
Memory		4GB
Flash		32GB
Charging		Autonomous charging, 220V/110V, Charger output 19V/5A
Audio - Subwoofer	W	20 (High Fidelity equalizer)
Audio - Midrange	W	2 x 15
Audio – twitter	W	2 x 1
Microphone array		4 Omni-directional digital mics, real-time localization, beam forming, acoustic echo-cancellation, noise reduction
RGB Camera		1MP, FOV110°, Hybrid IR filter
Tilt	X°	Autonomous face tracking, -15° to +55° tilting
Wireless charger(Temi S1 V1)	W	15W maximum (dependent on the charging device)
DC power socket(Temi S1 V2 & S1 V2 CE & V3)		12V@1.2A

IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

TABLET SPEC--TEMI S1 V3



Item	value
Android version	Android 11
CPU	RK3399 (Rock-Chip) 2 A72, 1.8GHz 4 A53, 1.4GHz
Memory	4GB (LpDDR4)
Flash	64GB (EMMC5.1)
Display size	13.3” (H293.76 / V 165.24)
Max Brightness	340 cd/m2
Display resolution	1920x1080
camera	13MP High resolution, autofocus, 1080@30FPS, FOV 120°, digital zoom
Built in Cellular Network 4G/5G (optional)	Cellular network SIM slot 4G/5G support
Supported languages	English / Chinese / Korean / Japanese / Deutsch / Thai / Cantonese / Traditional Chinese(TaiWan) / Traditional Chinese(Global) / Indonesian / Portuguese / Arabic / French(Canada)
Available storage	56GB
Wi-Fi	WIFI 5 (802.11 b/g/n/ac with both 2.4G/5G)
Bluetooth module	V5.0 BLE compatible Master and slave modes
USB	1 USB 3.0 port TYPE-C, 1 USB 2.0 port TYPE-A Supports 4G USB dongle Supports external USB camera Supports common USB devices

IDEAL LOBBY
sales@idealobby.com
+1(949)620.6262

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	16.4V
	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

IDEAL LOBBY
sales@idealllobby.com
+1(949)620.6262

CERTIFICATIONS

Item	Market	description
FCC/IC	USA/CA	EMC/RF testing
BQB (International)		Bluetooth RF/Profile testing
FDA		Registration based on product Laser class I test report
DOE-BCS		Energy efficiency
CEC-BCS		Energy efficiency
NRCAN		Energy efficiency
CP65		Mainly Chemial test for Pb,Phthalates content to touchable parts of robot
IEC60825 (International)		Laser parts class I testing
CPSC		Mainly Chemial test for Pb,Phthalates content to touchable parts of robot

IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

CERTIFICATIONS

Item	Market	description
CCC	CHINA	EMC/Safety testing
SRRC		WIFI&BT RF testing
CE RED(RF/EMC)	EU	RF/EMC testing
CE-MD		Safety testing including ISO13482/EN60204
GDPR(Not yet)		General data protection
POPS(Not yet)		Chemical testing
WEEE(Not yet)		Waste Electrical and Electronic Equipment
RoHS 2.0		Chemical testing
REACH (SVHC211 Items)		Chemical testing
RCM	AUSTRILIAN	Doc transfer, need CE-RF/EMC/EN60950 Safety report
MIC for telecom-JATE	JAPAN	WiFi & BT protocol testing
MIC for Radio-TELEC		WiFi & BT Signaling interaction testing

IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

CERTIFICATIONS

Item	Market	description
IMDA	SINGAPORE	Doc transfer, need CE-RF/EMC report
NTC	PHILIPPINE	Doc transfer, need CE-RF/EMC/EN60950 Safety report
MSIP	KOREA	EMC/RF testing
WPC	INDIA	Doc transfer, need CE-RF/EMC/EN60950 Safety report
NCC	TAIWAN (CHINA)	RF/EMC testing
OFCA	HK (CHINA)	Doc transfer, need FCC Safety report
NBTC	THAILAND	Doc transfer, need CE-RF/EMC/EN60950 Safety report
TRA	UAE	Doc transfer, need CE-RF/EMC/EN60950 Safety report
ANATEL	BRAZIL	RF/EMC testing

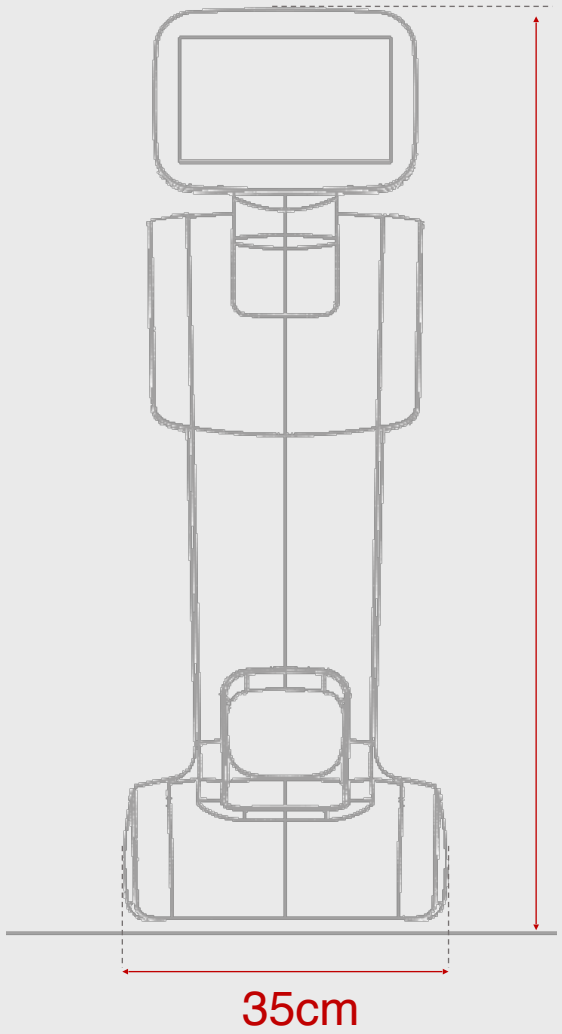
SECURITY

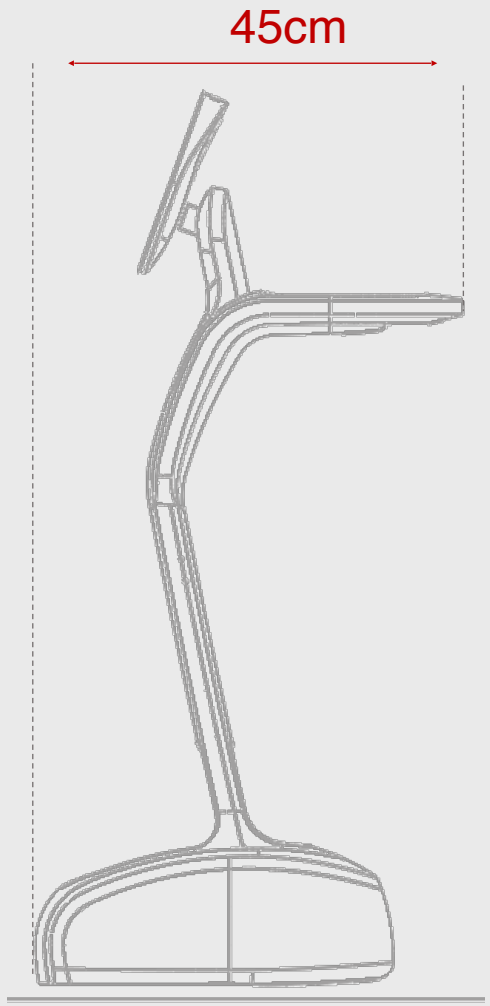
Item	description
firedome	Temi is working with a security trusted partner - Firedome. Firedome has ISO 27001 framework and compliance.

ROBOT DIMENSIONS

temi

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



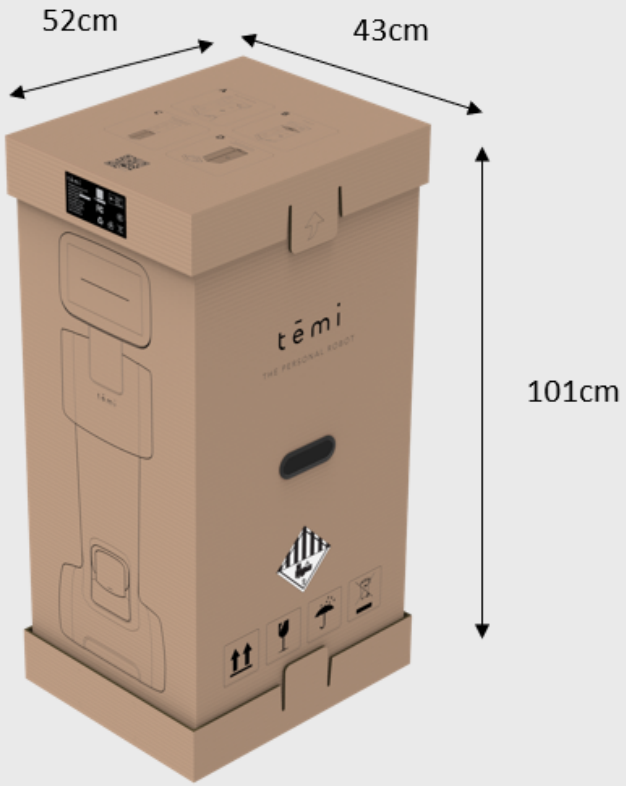


IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

PACKAGE DIMENSIONS

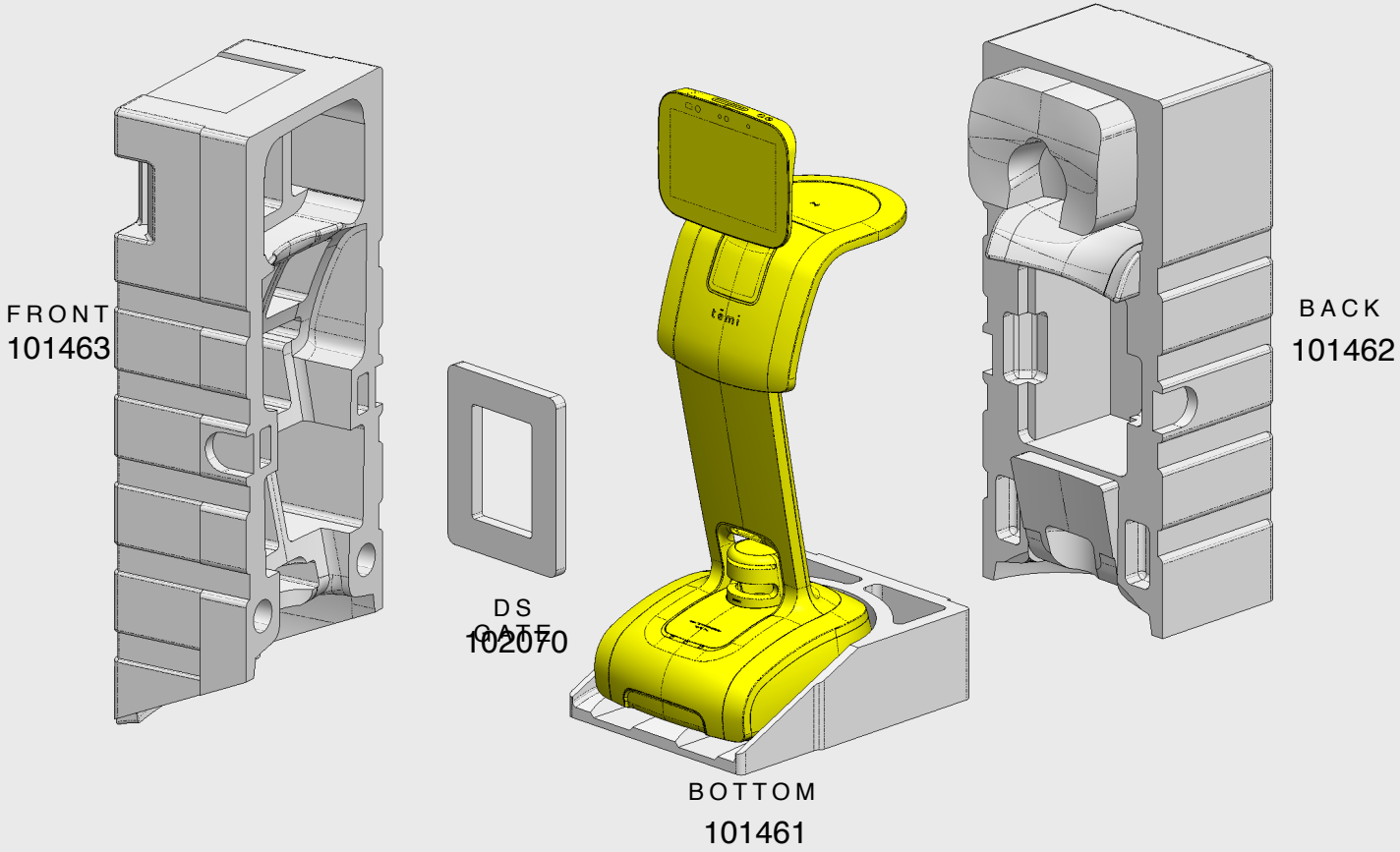
Item	Weight[kg]
Empty package	9.2
Fully packed robot	24.1





IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

PACKAGE STRUCTURE



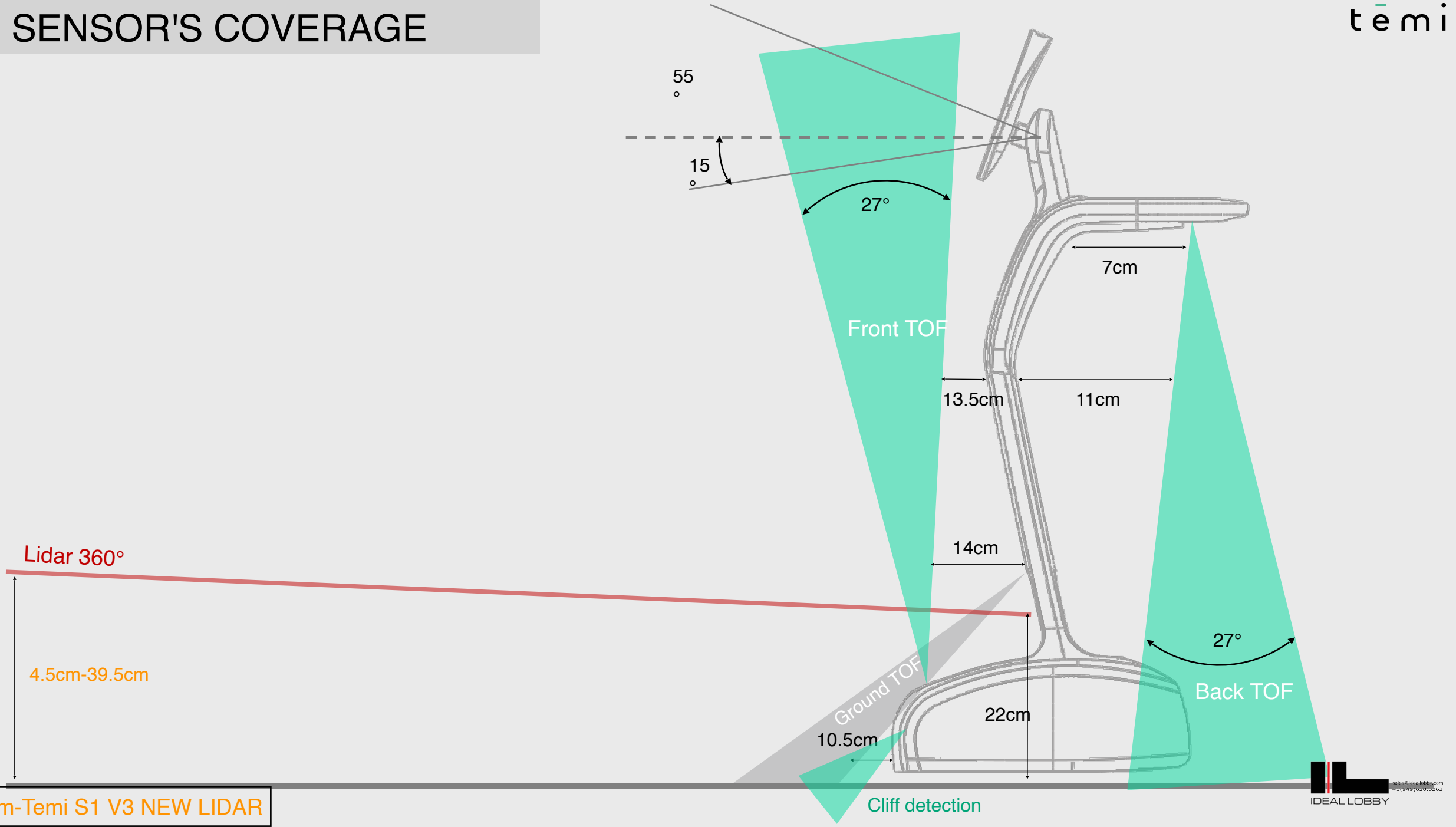
IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

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

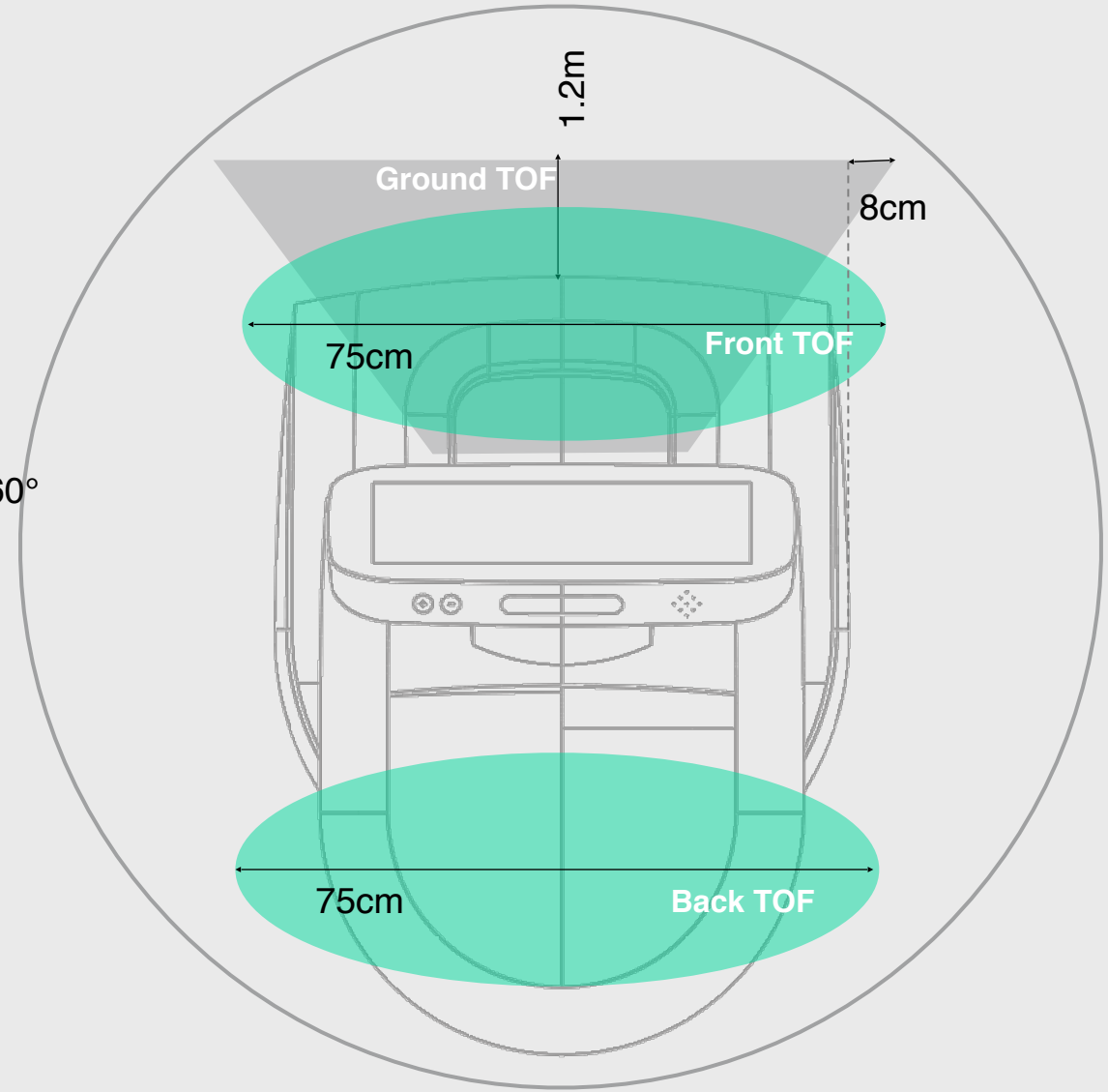
IDEAL LOBBY
sales@idealllobby.com
+1(949)620.6262

SENSOR'S COVERAGE



40m-Temi S1 V3 NEW LIDAR

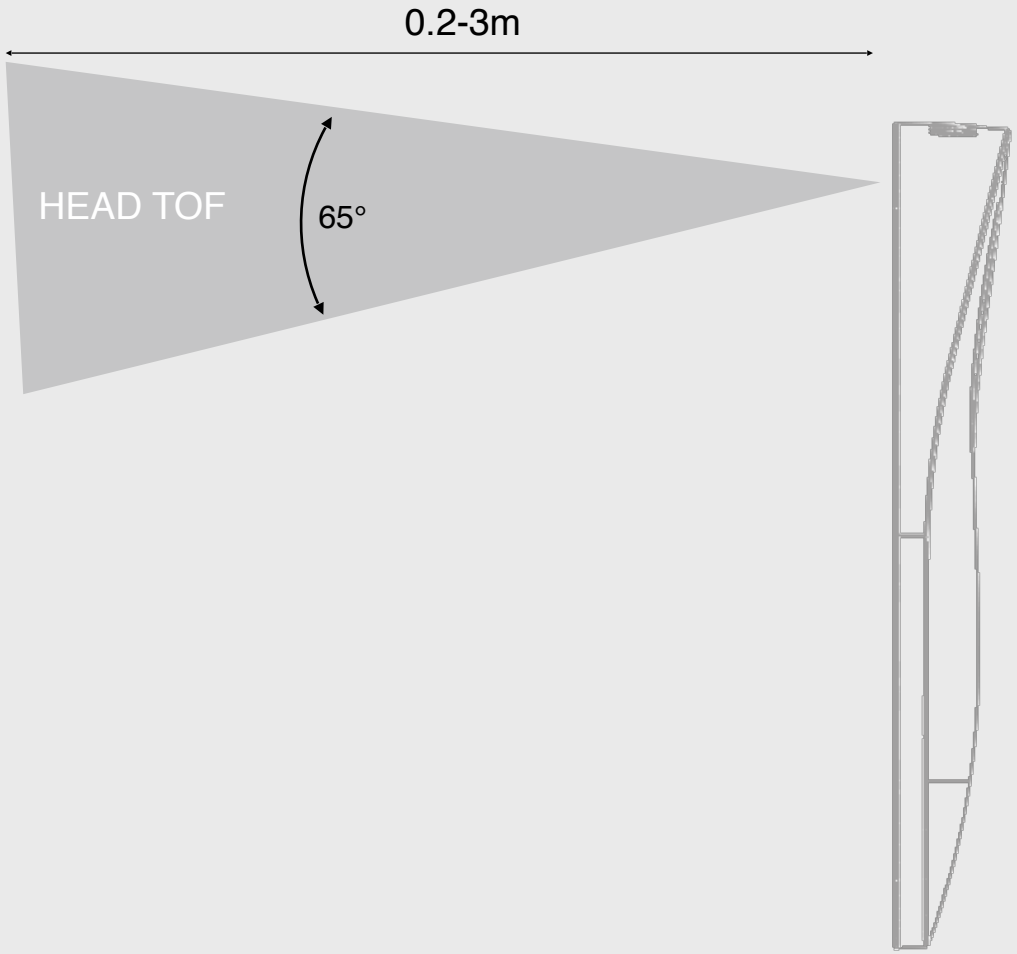
SENSOR'S COVERAGE - S1 V2 & S1 V2 CE & S1 V3

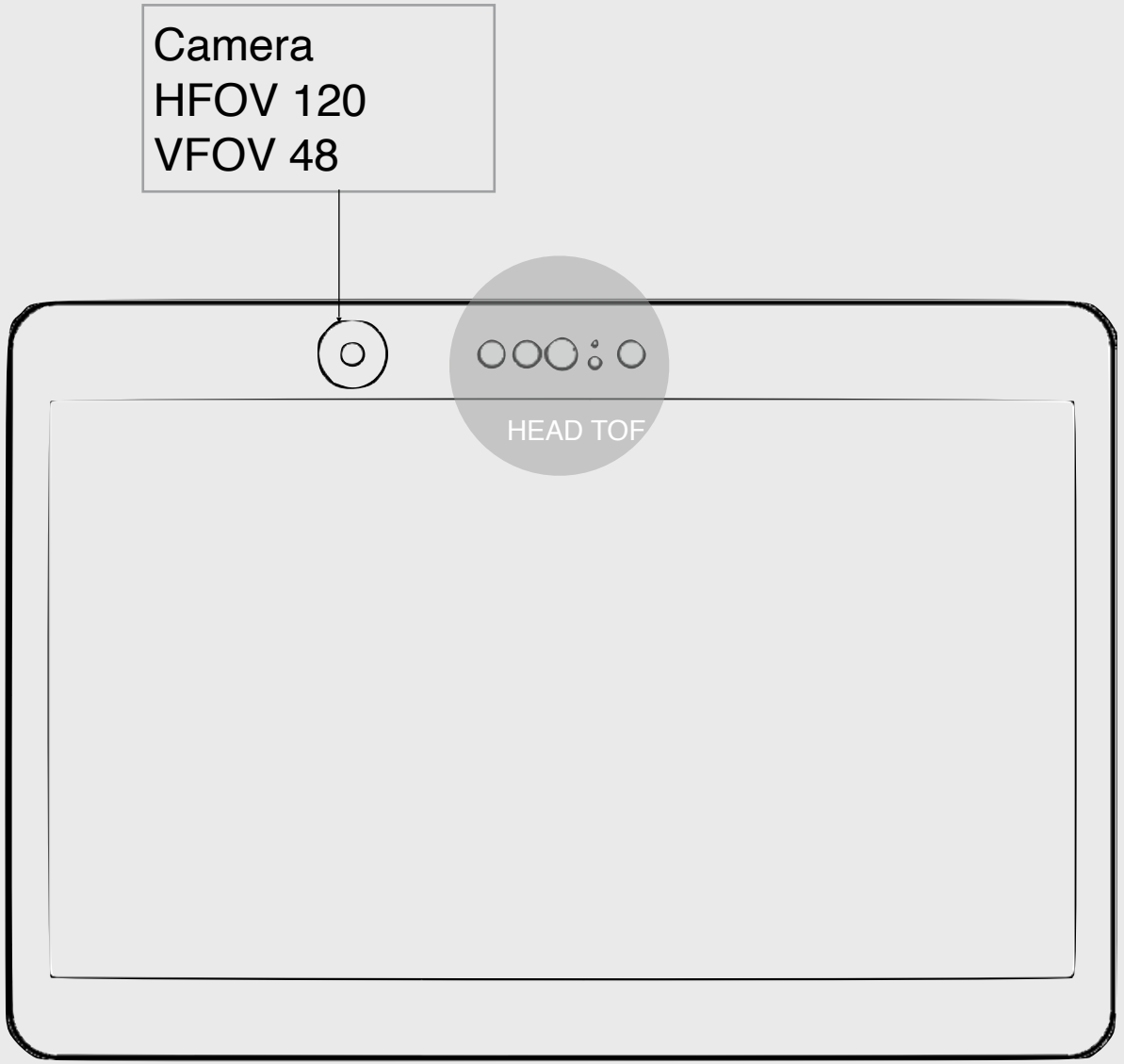


LIDAR 360°
$\varnothing 40m$

IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

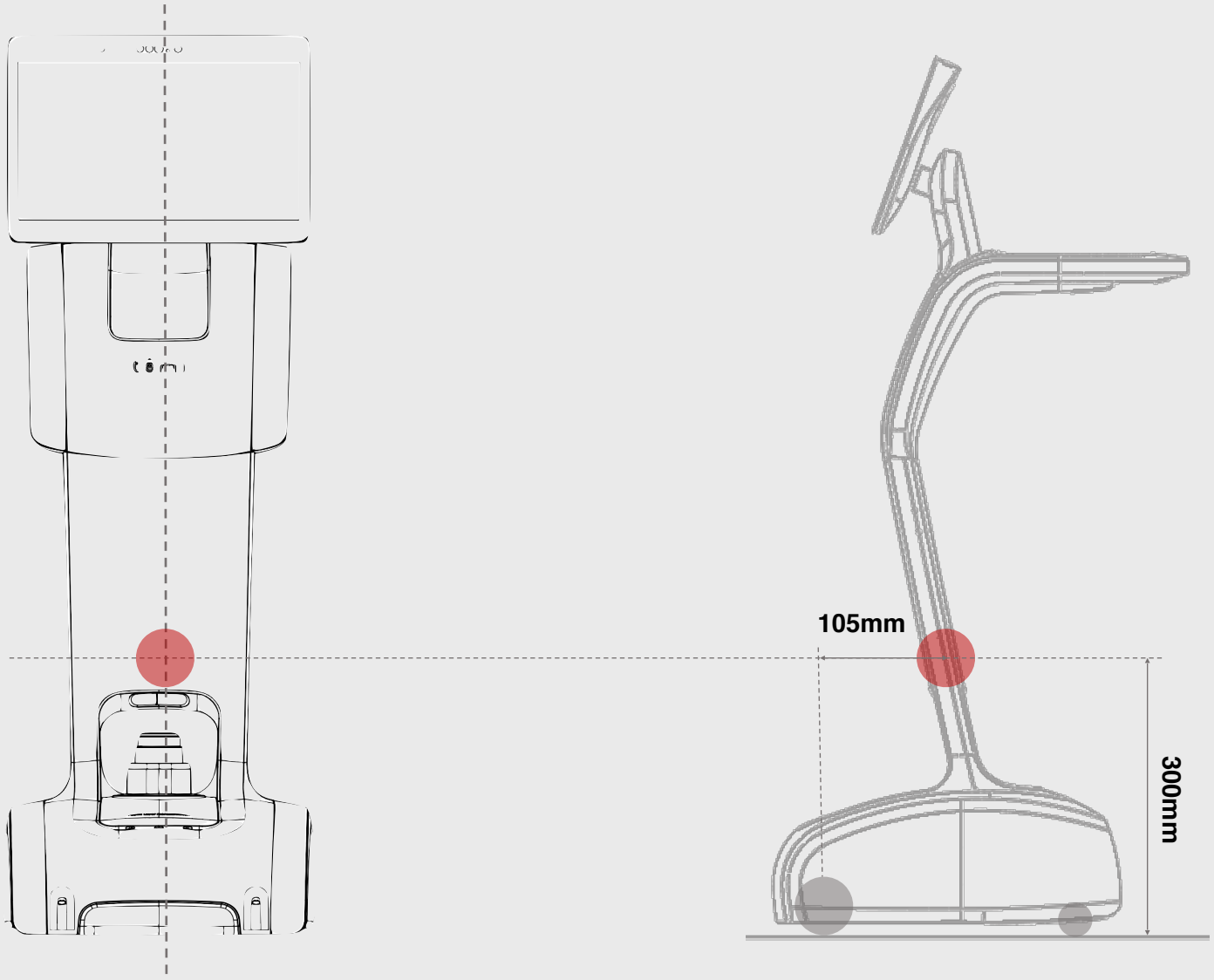
SENSORS COVERAGE - S1 V3





IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

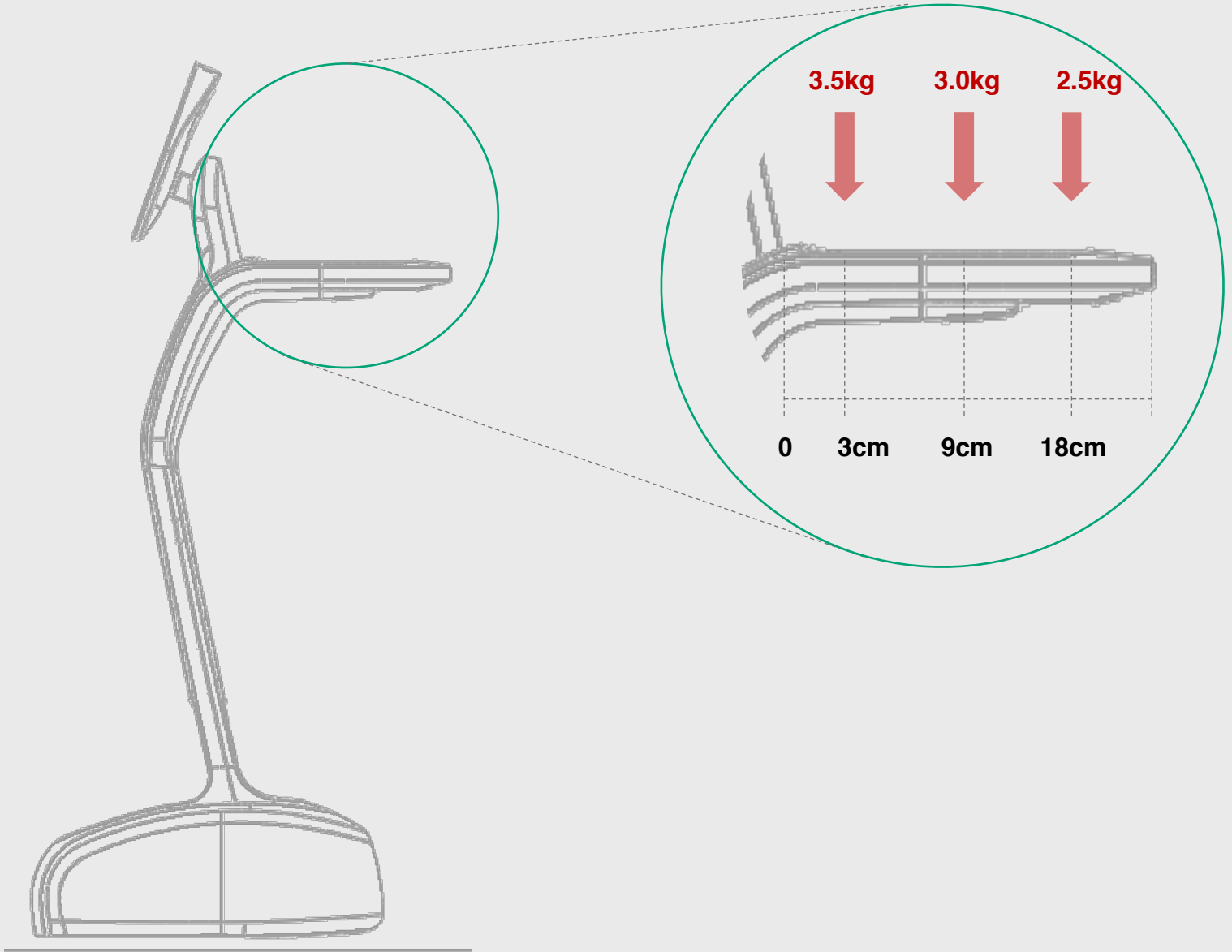
ACCESSORIES – CENTER OF MASS - S1 V3



IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

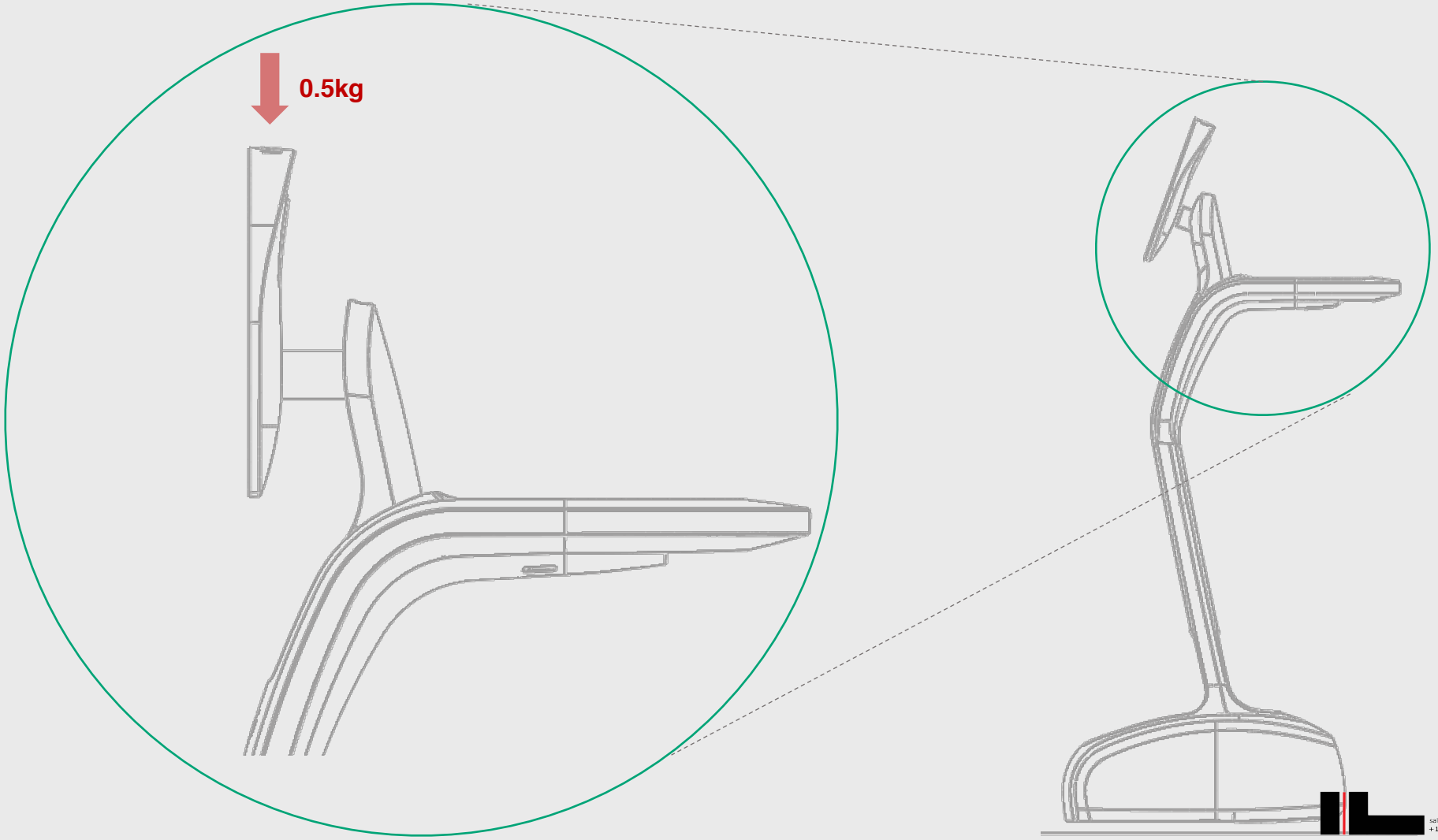
ACCESSORIES – MAX LOAD ON TRAY

Maximum load allowed
3.5kg

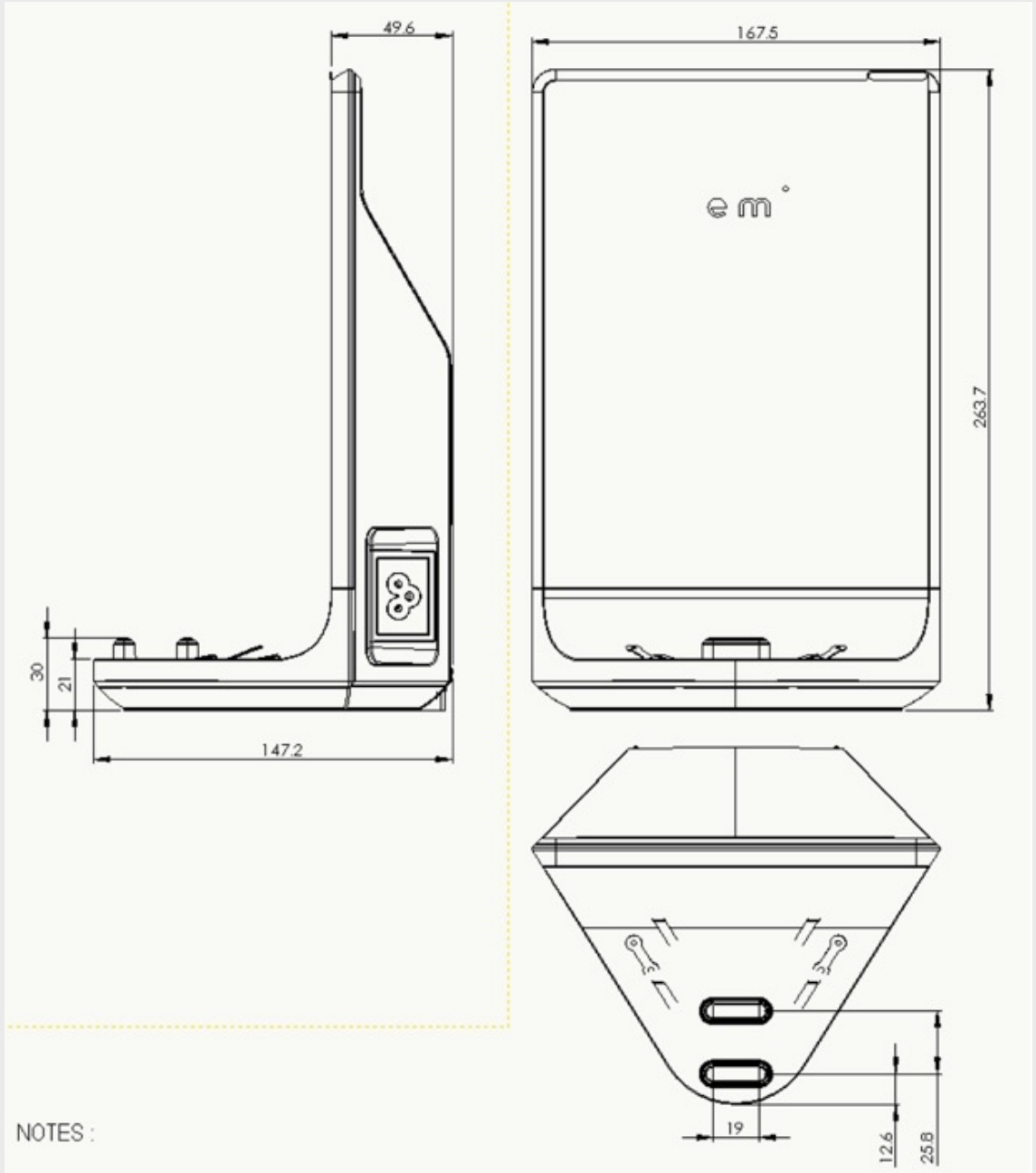


IDEAL LOBBY
sales@ideallobby.com
+1(949)620.6262

ACCESSORIES – MAX LOAD ON HEAD



ACCESSORIES-HOMEBASE – DIMENSION





sales@ideallobby.com
+1(949)620.6262
IDEAL LOBBY