Smart Sensor
SS01

SS01 sensor is a device designed for high precision non-contact temperature measurements. Thanks to its internal 64 micro bolometers you can capture infrared images and use the device in many applications such as:

- Thermal heat loss inspections of buildings
- Detect insulation leaks
- Identification of structural defects
- Locate radiant heating wires or pipes
- Mechanical and electrical inspections

The SS01 device has two communication interfaces:

- AudioCom
- USB 2.0

AudioCom is a proprietary interface that allows communication of data+power through the standard audio channels of smartphone devices (L / R + MIC). USB allows PC connections or on-field firmware updates.

If the power supplied through the communication interface is not sufficient, SS01 automatically uses its internal battery. The battery has high autonomy and can be easily recharged when needed.
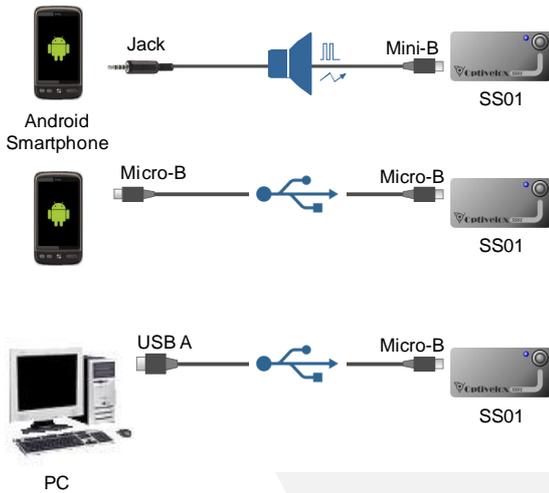
Ordering codes:

SS01 - ☐-☐-☐

	Interface		USB conn.		Audio conn.
A	Audio	0	Not available	0	Not available
USB	USB	N	Mini-B	N	Mini-B
AUSB	Audio + USB	C	Micro-B	NM	Mini-B (msens)

Jack — Mini-B — SS01

Android Smartphone

Micro-B — Micro-B — SS01

USB A — Micro-B — SS01

PC

The SS01 sensor is compatible with ThermoVisio application.
You can download ThermoVisio from Google Play Store.

OptiVelox

Technical specifications (1)

TEMPERATURE MEASUREMENTS (To)
IR array: 16x4
Operating range: -50...300°C
Resolution: 0.1°C
Accuracy: $\pm(3\%|To-Ta| + 1°C)$ typ
NETD: 250 mK
Frame rate: 4 Hz typ

DATA COMMUNICATION
- USB 2.0
- AudioCom (bi-directional audio)

FEATURES
- On board LiPo rechargeable battery and charger
- Battery charge led monitor
- Aluminum case
- Adhesive fixing with removable silicone gel

USB POWER SUPPLY
5 V ±10%

AUDIO POWER SUPPLY
Minimum power voltage (Vmin): 100 mVrms @f=22kHz

BATTERY POWER SUPPLY
Battery life: 6 h typ
Charging voltage: 5V ±10%

OPERATING TEMPERATURE (Ta)
-10°...55°C working (RH max 85% at 25°C)
-20°...60°C storage

DIMENSIONS
59 mm x 29 mm x 10 mm

WEIGHT
~24 g

(1) The characteristics shown are referred to the multi-interface version (-AUSB), some features can be unavailable in other configurations:

- A: USB interface not available
- USB: AudioCom and internal battery not available