
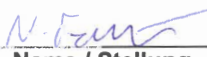
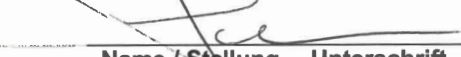


|  |   |   |  |  |   |
|--|---|---|--|--|---|
| <b>Prüfbericht-Nr.:</b><br><i>Test Report No.:</i>   | 60210081-001  | <b>Auftrags-Nr.:</b><br><i>Order No.:</i>   | 23870054   | Seite 1 von 4<br>Page 1 of 4                     |   |
| <b>Kunden Referenz-Nr.:</b><br><i>Client Reference No.:</i>  | -   | <b>Auftragsdatum</b><br><i>Order date:</i>  | 2018-08-01   |  |   |
| <b>Auftraggeber:</b><br><i>Client:</i>   | Sony Mobile Communication AB<br>Nya Vattentornet, 223 62 Lund, Sweden               |   |  |  |   |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>  | Connected Gym – Puck  |   |  |  |   |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>   | XD-0021<br>PY7-15706B   |   |  |  |   |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>   | RF Exposure Evaluation  |   |  |  |   |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>  | FCC 47 CFR §2.1091  |   |  |  |   |
| <b>Wareneingangsdatum:</b><br><i>Date of receipt:</i>  | N/A   |  |  |  |   |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample No.:</i>  | N/A   |   |  |  |   |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>   | N/A   |   |  |  |   |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>  | Lund, Sweden  |   |  |  |   |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>   | TÜV Rheinland Sweden  |   |  |  |   |
| <b>Prüfergebnis:</b><br><i>Test results:</i>   | See detail in report  |   |  |  |   |
| <b>Geprüft von</b><br><i>Tested by:</i>  | Niall Forrester<br>Test Engineer  | <b>Kontrolliert von</b><br><i>Reviewed by:</i>                                      | Per Isacsson<br>Lab Manager  |  |   |
| 2018-12-19   |  | 2018-12-19  |  |  |   |
| <b>Datum</b><br><i>Date</i>  | <b>Name / Stellung</b><br><i>Name / Position</i>                                    | <b>Unterschrift</b><br><i>Signature</i>   | <b>Datum</b><br><i>Date</i>  | <b>Name / Stellung</b><br><i>Name / Position</i> | <b>Unterschrift</b><br><i>Signature</i> |
| <b>Sontiges /</b><br><i>Other:</i>   |   |   |  |  |   |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test or accreditation mark/logo</i></p> |   |   |  |  |   |

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Test Report No.:

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Revisions  
Revisions

| Revision<br>Revision | Datum<br>Date | Anmerkung<br>Remark | Verfasser<br>Author |
|----------------------|---------------|---------------------|---------------------|
| Draft                | 2018-12-17    | Initial Draft       | Niall Forrester     |
| 001                  | 2018-12-19    | First release       | Niall Forrester     |
|                      |               |                     |                     |

Note: Latest revision report will replace all previous reports

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## PRODUCT INFORMATION

### 1.1 Equipment under Test (EUT) description

|                      |  |
|----------------------|--|
| <b>Model name:</b>   | Connected Gym  |
| <b>Manufacturer:</b> | Sony Mobile Communications Inc,  |
| <b>Model number:</b> | PUCK 3.1   |
| <b>Type Number:</b>  | XD-0021  |
| <b>FCC ID:</b>       | PY7-15706B   |
| <b>Description:</b>  | Connected Gym digitalize a gym without replacing the gym machines. The main unit report repetitions to the system while the puck is used as machine identifier |

### 1.2 Wireless Technologies and Frequency Bands supported by the DUT

| Technology           | Band    | Frequency Range (Tx)  | Evaluation Performed |
|----------------------|---------|-----------------------|----------------------|
| Bluetooth Low Energy | 2.4 GHz | 2400 MHz – 2483.5 MHz | YES                  |

### 1.3 Conducted Power and Antenna Gain

| Technology           | Band    | Maximum Conducted Output Power (dBm) | Antenna Gain (dBi) |
|----------------------|---------|--------------------------------------|--------------------|
| Bluetooth Low Energy | 2.4 GHz | -3.0                                 | -3.0               |

Maximum Power and Antenna Gain are based on details supplied by the device manufacturer.

## EVALUATION

### 1.4 Summary

At 20cm, the device is compliant with the “General Population / Uncontrolled” requirements set out in FCC 47 CFR §1.1310 Table 1 (B) for all wireless technologies supported by the device.

### 1.5 Detailed Calculations

The Power Density at 20cm separation distance has been calculated for each of the transmitter technologies supported by the device according to a re-arrangement of the Friis formula, as below:

$$S = \frac{P * G}{4\pi * r^2}$$

Where:

- “S” is power density in mW/cm<sup>2</sup>
- “P” is maximum avg. conducted power (incl. tolerances) in mW according to data from the manufacturer
- “G” is the peak antenna gain (numerical) according to data from the manufacturer
- “r” is the separation distance (20 cm)

| Technology           | Band    | Frequency* (MHz) | Power (dBm) | P (mW) | Gain (dBi) | G (Numerical) | r (cm) | S (mW/cm <sup>2</sup> ) | Limit** (mW/cm <sup>2</sup> ) |
|----------------------|---------|------------------|-------------|--------|------------|---------------|--------|-------------------------|-------------------------------|
| Bluetooth Low Energy | 2.4 GHz | 2400             | -3.00       | 0.50   | -3.00      | 0.50          | 20     | 0.000050                | 1.0                           |

\*The lowest frequency in each band has been chosen, to give the most conservative limit

\*\*The limits listed are from FCC 47 CFR §1.1310 Table 1 (B): “Limits for General Population/Uncontrolled”

From 1500MHz to 100000MHz, the limit is 1.0 mW/cm<sup>2</sup>

**\*\*\*END OF REPORT\*\*\***