



### ADDITIONAL DETAILS FOR 1294-5702 & 1276-4067

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**BACKGROUND**

The RD-00090 is a 'SmartWatch' product, designed to be worn on the wrist and supporting Bluetooth and WLAN 802.11 communication in the 2.4GHz range.

The purpose of this document is to give more detail of methods used for SAR testing of the RD-0090 device together with a watch strap accessory comprising of a plastic carrier (part 1294-5702) and a leather band (part 1276-4067)

This testing is in addition to previous tests performed with other types of strap accessories for the same RD-0090 device. Details for these previous tests can be seen in report 2014\_SONY-CDTLE\_S0007\_04\_SAR\_0001\_V1\_1

**DESCRIPTION OF CARRIER (1294-5702) AND BAND (1276-4067)**

The 1294-5702 carrier is moulded in plastic with a metal on/off button to operate the device (other controls are via the touch-screen). This button is in contact with the small button on the edge of the module

The carrier part also contains a small Flexible Printed Circuit (FPC) film which is placed so it is adjacent to the antenna when the module is placed in the carrier.

The 1276-4067 band is in the form of a strip of leather which is attached to the carrier with spring-loaded metal pins. The leather band can be separated from the rest of the carrier using watchmaker's tools. At one end of the leather band is a metal clasp used to fasten the two ends of the band together, around the wrist.



RD-0090 with carrier and band (left) and detail of the FPC film (right)

**TEST SEPARATION**

The chosen location on the neck area of the SAM phantom allows for placement with the centre of the rear of the device to be in direct contact with the phantom. Due to the curvature of the phantom, there is a slight gap present for some parts of the device.

The largest gap is where the strap joins the body of the carrier. As can be seen from the images below, this gap is similar to the gap that exists when the device is worn on the wrist: in a real-life usage situation, gaps will be present regardless of the size of the users arm.

The majority of the rest of the device is either in contact with the phantom, or very close to it (<2mm separation).

To compare the gaps, a cardboard tube with the approximate shape of an arm, and a cardboard cross section of the phantom (at the proposed test position) were made. The dimensions of the phantom cross section are not exact, but a close approximation



Gap comparison for 1294-5702 & 1276-4067 for arm (left) and phantom neck region (right)