

Certification Exhibit

**FCC ID: 2AELXM500
IC: 20120-M500**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-247**

ACS Project Number: 15-3002

**Manufacturer: SmallHD, LLC
Models: M501, M502**

RF Exposure

General Information:

Applicant: SmallHD, LLC
Device Category: Portable (extremities)
Environment: General Population/Uncontrolled Exposure

Technical Information:

Minimum Test Separation Distance: 5mm
Antenna Type: Ceramic chip
Antenna Gain: 1.3 dBi Peak
Maximum Transmitter Conducted Power: 4 dBm, 2.52 mW
Maximum System EIRP: 5.3 dBm, 3.4 mW

Justification for SAR Test Exclusion (FCC):**Standalone SAR Test Exclusion:**

Per KDB 447498 D01 General RF Exposure Guidance v05r02, the standalone 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{maximum power of channel, including tune-up tolerance, mW}}{(\text{minimum test separation distance, mm})} \right] \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR.}$$

$$= (3/5) * (\sqrt{2.480}) = 0.9$$

0.9 < 7.5

The Standalone SAR test exclusion applies

Justification for SAR Test Exclusion (Industry Canada):


The SAR test exclusion thresholds were determined using RSS-102 issue 5 , section 2.5.1 Table 1.

Maximum Conducted or Equivalent Isotropically Radiated Power (EIRP): 3.4 mW

The linear interpolated threshold of Table 1 for 2480 MHz at a separation distance of 5mm is 4mW. This is then compensated for extremities exposure using the 2.5X exposure factor giving an exemption limit of 10 mW.

3.4mW < 10 mW

The SAR test exclusion applies.

Filename: Monitor - BTR not worn on body-V0.1.doc	Revision: 0.1	
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smallHD Series 500 Monitor

Statement regarding mounting the M500 to the user's body

“Under normal, expected operation, the SmallHD Series 500 monitor is neither designed nor intended to be attached to or situated against the human body. There are no physical or mechanical features on the monitor that natively allow for it to be attached to the body or any articles of clothing.”

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