## RF Exposure / SAR Statement

No.: 26IE0265-HO-A

Applicant : KEYENCE CORPORATION

Type of Equipment: Wireless Hand-held Barcode Reader (Scanner)

Model No. : BL-N90 FCC ID : RF40823A

KEYENCE CORPORATION declares that Model: BL-N90

complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

The "BL-N90" has 1.48 mW of conducted Peak Output power and 2.94 mW of EIRP. This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List) so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

## **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "BL-N90" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

 $S = (P * G) / (4* \pi * r^2)$ 

Where

P = 1.48 mW (Maximum peak output power)

G = 2.00 Numerical Antenna gain; equal 3.00 dBi

r = 20.0 cm

For: BL-N90  $S = 0.00059 \text{ mW/cm}^2$ 

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