

# STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

## EQUIPMENT

Type of equipment:	Image plate scanner
Type / Model:	VistaScan Nano Easy
Manufacturer:	DÜRR DENTAL SE
By request of:	DÜRR DENTAL SE

## STANDARD

47 CFR §2.1091, 47 CFR §1.1307, 47 CFR §1.1310 KDB 447498 D01 v06

## Evaluation

Maximum input power to the transmitter is ... mW. We can assume that the transmitter is ideal and all ... mW are sent to the antenna. Magnetic coil antenna gain has maximum 0 dBi gain.

Maximum output power of the RFID transmitter is 400 mW (according to the customer). Magnetic coil antenna gain has maximum 0 dBi gain.

A worst case MPE calculation is as follows:

$$S = \frac{EIRP}{\pi * r^2}$$

EIRP = 400 mW

r = 20 cm

S = 0,32 mW / cm<sup>2</sup>

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## Limits

Per 47 CFR §1.1310 MPE limit for 13.56 MHz transmitter is 0,98 mW / cm<sup>2</sup>

RSS-102 clause 2.5.2 Routine rf exposure evaluation exemption limit for transmitters operating at 20 MHz or lower frequencies is 1 W eirp.

Transmitter complies with these limits without testing

Intertek Deutschland GmbH

Date of issue: 2019-11-06

Issued by: Roland Dressler

