

PEHRATEK TECHNICAL BULLETIN

RoHS, Reach, CE, FCC, FDA EQUIPMENT REQUIREMENTS FOR CLINICS AND HOSPITALS

WHAT IS RoHS?-The letters stand for Restriction of Hazardous Substances, and its aim is to restricts the use of lead, mercury, cadmium, chromium (VI), PBBs, and PBDEs in electrical and electronic equipment as of July 1, 2006. RoHS regulations are contained within an EU directive and makes its application far more wide ranging, with countries around the globe being aware of it and having to manufacture goods that are RoHS compliant. Within the USA, the State of California has already adopted RoHS style legislation and other states are following for increased safety and environmental reasons.

EC-Directive	Subject	Document No.
Low Voltage Directive	Products with a voltage rating of 50-1000 VAC or 75-1500 VDC	2014/35/EU
Electromagnetic Compatibility (EMC)	Apparatus liable to cause electromagnetic disturbance or which is liable to be affected by such disturbance	2014/35/EU
RoHS Directive	Restriction Of the use of certain Hazardous Substances	2011/65/EU

**PEHRATEK PRODUCTS XM-5000 & VDS-3000 VRAS
ARE ROHS, REACH, FCC, & CE APPROVED**

WHY IS BLUETOOTH AND WIFI INTERFERENCE A PROBLEM?

Bluetooth sends signals over a 2.4GHz radio frequency. **This becomes problematic** when other nearby devices are also using that same frequency. Wi-Fi is perhaps the biggest and most problematic example, as are other Bluetooth receivers and devices, which can interfere with one another. That said, even cell phones and microwaves can cause Bluetooth interference with your devices resulting in delays, slow responses, and unpairing or disconnection of devices.

**ALL PEHRATEK PRODUCTS VRAS
OPERATE ON 433 MHz**
(Far lower than WIFI and Bluetooth Frequencies That Penetrate
Objects Easier (SOUND ROOMS))

The US Federal Communications Commission (FCC) regulates operation at 433 MHz under Regulation 10CFR47 Part 15.231. 433MHz is a commonly used frequency band for all types of equipment that require little power, such as garage door openers, headphones, baby monitors, light dimmers and remote controls. Interference is minimized as there is little competition on this band and operates on much lower frequencies (that penetrate objects easier) than common bands such as BlueTooth or WIFI which are found everywhere! (Wonder why cell phones do not work in sound rooms!)

**PEHRATEK VRA's COME WITH
ONLY THE MOST POPULAR
KID-FRIENDLY DISNEY TOYS!!**



FCC ID:2A6D4XM5000



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