

# The multi-purpose diagnostic instrument that allows you to hear the inaudible



An essential addition to every engineer's diagnostic equipment, the USX3 allows you to hear ultrasonic frequencies and thus fix minor faults before they become problematic.

With a wide range of diagnostic uses it helps you to detect:

**Mechanical Wear in:-**

- Bearings, shafts, gears, cam and tappet assemblies
- Leaks in all pressurised systems, including:-
- Air conditioning & Refrigeration
- Compressed air
- Air Brakes & Tyres
- Vacuum leaks
- Electrical discharge due to insulation breakdown
- Cracks & leaks in containers, door seals, vehicle bodywork
- Ultrasonic parking sensors
- Fuel/refrigerant and coolant system flows
- High pressure steam leakage

...and much more

## A necessity for preventative maintenance

Most mechanical faults and failures start out as very small defects or leaks. Such faults emit a high pitched noise as ultrasonic waves, which are beyond the range of the human ear. As the faults get more serious the noise gets more intense, the sound wavelength increases and enters the audible range. At that stage, the damage is already done. Instead, find the cause of the problem with the USX3 before it's too late.

Primalec's USX3 uses Superheterodyning technology to convert ultrasonic noises into audible range which mimic the natural sounds made by the defect.

Since USX-3 is tuned to listen to the ultrasonic range, it is also unaffected by everyday sounds such as wind, voices, and traffic which can further hinder the technician's ability to listen for a potential problem. This allows you to detect the faults and leaks in time for preventive maintenance by listening to the sound as well as using the LED display.



Contact us for more information

tel +44 (0)1622 816955 [customers@primalec.co.uk](mailto:customers@primalec.co.uk) [www.primalec.co.uk](http://www.primalec.co.uk)

**USX3**



| Product Code/Name  | USX3-K1                                                                                  | USX3-K2                                                                               |
|--------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Kit contents       | Receiver, transmitter, headphones, hollow probe, air probe, 9V batteries, case           | Receiver, headphones, hollow probe, air probe, 9V battery, case                       |
| Response time      | Instantaneous                                                                            | Instantaneous                                                                         |
| Frequency response | 36kHz-44kHz                                                                              | 36kHz-44kHz                                                                           |
| Power supply       | 1+1 x 9V Battery.<br>Expected Life:<br>15 hours continuous<br>(70 hours for transmitter) | 1 x 9V Battery<br>Expected Life:<br>15 hours continuous<br>(70 hours for transmitter) |
| Dimensions         | Receiver: 190g<br>170mm x 83mm x 35mm<br>Transmitter:<br>176mm x 83mm x 350mm            | Receiver: 190g<br>170mm x 83mm x 35mm                                                 |
| Weights            | 1.89kg                                                                                   | 1.7kg                                                                                 |
| Warranty           | 1 year limited                                                                           | 1 year limited                                                                        |



Also available from Primalec



Glo-Leak UV | NitroTrace & Leaktronic | Refrigerant Analysis & ID | Airco seal & Superseal | Snow Leopard Lubricants