

ProHD™ Heavy-Duty Pack

Only Available From LBA Technology!

The occupational *fieldSENSE* personal RF monitor is designed specifically for those working around wireless industry installations who must be RF aware. It is robust, reliable, intuitive and cost effective. All technical and trades personnel working near telecommunications antennas can use it. It's perfect for tower climbers, RF technicians, HVAC servicemen, facilities maintenance, roofers, window washers and first responders!

The *fieldSENSE* occupational personal RF monitor is the heart of the unique LBA *fieldSENSE ProHD™ Heavy-Duty Pack*. LBA has combined the personal monitor with a heavy-duty protective nylon carry holster which fits most rigging harness and other work belts. Along with reserve battery power and other amenities, the result is the *ProHD™ Heavy-Duty Pack*!

The *fieldSENSE ProHD™ Heavy-Duty Pack* is designed for all workers needing an RF monitor that will stand up to rugged use, provide reliable warnings and stay out of their way. It is designed for simple operation and to provide just enough information for safety.

A single button toggles between user modes and power-on/off. The display and processing of RF exposure data is limited to that required for RF awareness: to make informed on-site decisions and take necessary precautions. The *fieldSENSE* monitor is calibrated to international MPE levels, suitable for OSHA and FCC compliance. It operates in all frequency bands commonly used by wireless carriers.

When out of the nylon carry holster, a rubbery outer sleeve offers improved grip and protection against mechanical shock and impact. In lab or protected environments, a lanyard is provided to minimize the risk of dropping the personal RF monitor.

The *fieldSENSE* personal alarm may also be used in a monitor mode. Safety managers and engineers may use the monitor to alarm if specific antennas are activated as part of lockout/tag out procedures; it may also be used in this mode to identify "leaky" coax cable runs or transmitter shields. A standard tripod socket at the bottom can be used to mount the *fieldSENSE* on a tripod when used in monitor mode, or a provided strap permits direct attachment to the object of interest.



**RF Awareness
for OSHA compliance
and safety at radio sites.**

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- ✓ ProHD™; kitted specifically for heavy-duty users
- ✓ Affordable, accurate, reliable and robust
- ✓ Single button, easy operation
- ✓ Bright LED's for good visibility in full sunlight
- ✓ Wide level indicator range, 5% to 250%
- ✓ Loud audio warning in case of MPE overexposure danger
- ✓ Frequency coverage includes all wireless carrier bands
- ✓ Antenna lock out monitor, leak tracing features

FieldSENSE ProHD™

Heavy-Duty Pack Specifications



Frequency range	380 MHz- 2.7 GHz
Sensor type	E field, vertically polarized
Reference standard	ICNIRP Occupational reference
Operational modes	Measure/Monitor
Operation	Single button operation, on/off and mode select
Level indicators	Percentage of ICNIRP Reference level ** Measure/Monitor mode, cross polarization compensated.
1 x LED	5%
2 x	15%
3 x	40%
4 x	63%
5 x	100%
6 x	160%
7 x	250%
Alarm Indicators	** Monitor mode only
4 x LEDs / 63%	1 Hz beep
5 x LEDs / 100 %	1 Hz beep
6 x LEDs / 160%	2 Hz beep
7 x LEDs / 250%	4 Hz beep
Battery life	**Monitor mode: 250 hours
Low battery warning	Flashing LED
Battery type	2 x N type
Physical properties	132.3 x 41.3 x 23.5 mm , 97g (incl. batteries)
Temperature	Operating: -10°C – 50°C Survival: -20°C – 70°C
Additional environmental testing	Vibration, Drop, Humidity
Certification	CE
Calibration interval	Use dependent; Heavy: 1 Year, Light: 2 Years
Included in the box	Padded nylon harness holster Spandex pouch Nylon strap, adjustable Wrist strap, adjustable User manual Calibration certificate 4ea. N type batteries, 2ea. installed, 2ea. Reserve

“MEASURE MODE”



The normal operating mode of the fieldSENSE is the “Measure” mode. When approaching or working on a site where RF Awareness is required, the “Measure” mode ensures that the worker is informed immediately of any RF exposure approaching MPE limits. The **fieldSENSE ProHD™ Heavy-Duty Pack** includes a rugged nylon harness holster to permit carrying of the **fieldSENSE** at all times without harm or interference with work tasks.

In “Measure” mode, RF power density is measured continuously. An audio alarm provides warning of RF exposure concerns. When removed from its holster, an LED level indicator bar provides visual feedback of the exposure levels as the instrument is moved around should the user wish to pinpoint sources of RF radiation. It may also be used to confirm that specific base station sectors or antennas have been shut down, or that it otherwise can be considered safe to approach and complete a required task.

“MONITOR MODE”



The **fieldSENSE** personal alarm may also be used in a “Monitor” mode. Safety managers and engineers may use the monitor to alarm if specific antennas are activated as part of lockout/tag out procedures. It may also be used in this mode to identify “leaky” coax cable runs or transmitter shields. In the “Monitor” mode, the **fieldSENSE** RF alarm continuously monitors the RF radiation levels and alerts by both an audio alarm and a visual alarm if levels change. The **fieldSENSE ProHD™ Heavy-Duty Pack** includes accessories to enable fixed “Monitor” mode mounting.

USER INTERFACE AND OPERATION



A single button toggles between user modes and power-on/off. The display and processing of RF exposure data is limited to that required for RF awareness; to make informed on-site decisions and take necessary precautions.

The rugged nylon harness holster permits the **fieldSENSE** personal monitor to be carried at all times without harm or interference with work tasks. When out of its carry holster, a rubbery outer sleeve offers improved grip and protection against mechanical shock and impact. In lab or protected environments, a lanyard is provided to minimize the risk of dropping the personal RF monitor.



A standard socket at the bottom can be used to mount the **fieldSENSE** on a tripod when used in monitor mode. The **fieldSENSE ProHD™ Heavy-Duty Pack** includes other accessories to enable fixed or special task mounting and carrying.

No calibration is required before use. However, an annual calibration is recommended for heavy duty use environments, every two years for lab and other light duty uses. Calibration is available from LBA Technology.