BioControl
Technology for biology

HHR 3000 Pro V2
Handheld Reader Family



Comfortable to hold,
clear display,
easy to operate
keyboard

Superb read range

Very complete
Operating System

Many handy livestock
RFID functions

Easy to program



HHR-Pro available
with range of
Exchangeable
antenna's



Available with handy 2" thermal portable
printer. RS232 and Bluetooth



Available in strong transport case.
HHR, printer and accessories included

BB 09001-3 HHR 3000 Pro V2/1. Specification may be changed without prior notice.
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HHR-LT is the 'entry' model of the well proven HHR 3000 reader family.
HHR-LT is standard equipped with both USB and RS2332.



HHR-LT and HHR-Pro can also print barcode sticker of RFID number.
Handy for recording milk or blood samples.



Rugged connector at bottom for USB and RS232 is well protected by 'condom'



HHR-LT and HHR-Pro can import weight from leading weighing equipment (Gallagher, Iconix, Tru Test)

Approved, certified and acknowledged

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HHR 3000 Pro V2
Handheld Reader Family



Handheld Reader with extended antenna to identify at comfortable and safe distance



Handheld Reader with exchangeable antenna

The HHR 3000 Pro V2 is an easy to operate Handheld Reader for ISO 11784/11785 transponders. It is designed for on-farm use under 'real life' conditions and combines great reading performance, enhanced computer features with ease of operation.

Great reading performance

The air coil antenna ensures a superb reading distance, especially necessary for reading transponders on or in mature cattle.

The 45 cm (!) antenna extension allows you to get close to the animal without scaring it or getting injured yourself. A tone and light signal is given to feedback that the animal is read.

The reader uses Advanced Digital Decoding technology (ADD), which results in an optimal reading of both ISO HDX and FDX-B transponders.

Rugged, ergonomic design

The HHR 3000 Pro V2 lies comfortable in the hand because of its balanced weight.

The robust handgrip and used materials are designed to withstand a drop on the floor. The housing is 'weather conditions' water tight and can be easily cleaned with a wet towel.

Its large capacity battery ensures a full working day without the need of battery charging during the day, or the hassle of changing batteries in the field.

When the working day is over, the reader can be easily charged via a mains charger, or direct from the car cigarette lighter.

USB and other interfaces

The reader is standard equipped with USB and has RS232, Bluetooth and GPRS interface options.

Easy data exchange

The reader is supplied with a basic PC program to exchange data between PC and reader.

The application program is also easily uploaded from the PC via the USB interface.



Good readable display with clear lights

The large graphical display enables different character sizes, icons and text boxes for better understanding.

The graphic display is backlit for optimum readability, even under low light conditions.

The green and red lights (not on LT!) clearly indicate reading and attention allerts. This is handy for noisy environments where the tone can not be heard.

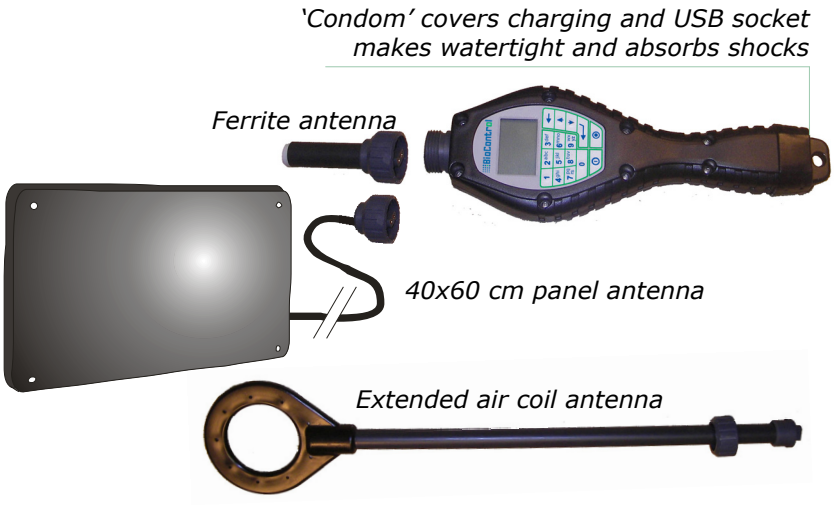
- Reads ISO 11784/11785 HDX and FDX-B transponders
- Synchronizes to stationary readers according to ISO 11785
- Available with range of exchangeable antennas
- Comfortable and safe reading through extended antenna
- Audible and visual ID indication, clear display
- Large memory to store 1,000's of animals with additional information
- More than sufficient battery capacity for one working day
- Easy to add alphanumeric data and date/time stamp to animal ID
- Uploadable application software

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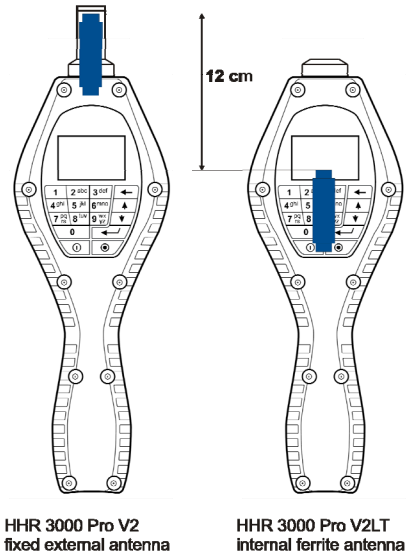
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HHR 3000 Pro V2
Handheld Reader Family

Technical details



Available with range of exchangeable antenna's



'LT' with internal antenna

	HHR 3000 Pro V2	HHR 3000 Pro V2LT
Antenna	External antenna (different models) Exchangeable antenna available	Internal ferrite antenna Exchangeable antenna not possible
Read range [1]*typical, with air coil antenna, depends on orientation and interference*	Superb read range for easy EID of all livestock (cattle, deer, sheep, etc.) - 50 cm with Allflex HDX 32 mm. ear tag[1] - 30 cm with Allflex FDX-B 27 mm. ear tag[1] - Limited dynamic reading with Panel Antenna. For reading constraint animal only (e.g. weighing)	Perceived reduction of read range: - Antenna located central in reader (above picture) results in 12 cm perceived reduction of read range - This is partially compensated by field characteristic: transponder reading radial to the antenna, rather than axial to the antenna - Suitable for EID sheep and goats, meets EU-regulation 21-2004
Memory (non-volatile)	512 kByte	256 kByte
Optional additional interface	RS232, Bluetooth 2.0, GPRS	Standard RS232. Bluetooth and GPRS not possible
Indicator LED's	Red/green	No
Supplied with carrying bag	Yes	No
Color housing	Black	Blue
Standard interface, clock	USB 2.0, real time clock on board for date/time stamp	
Battery capacity	2000 mAh, sufficient for one day working	
Programming	BioControl HHR Operating System, upload program via USB Works with Windows 2000, XP and Vista	
Dimensions*/weight*/IPclass	27.5x10.5x4.6 cm.* / 550 gram* / IP65 **=HHR 3000 LT*	
Approvals/certificates	FCC: complies with Part 15 of the FCC rules EU-JRC: certificates 161/07 and 176/08, CE: meets EN50082-1 and EN50022	

CE CCIA JRC EUROPEAN COMMISSION FC ISO International Organization for Standardization

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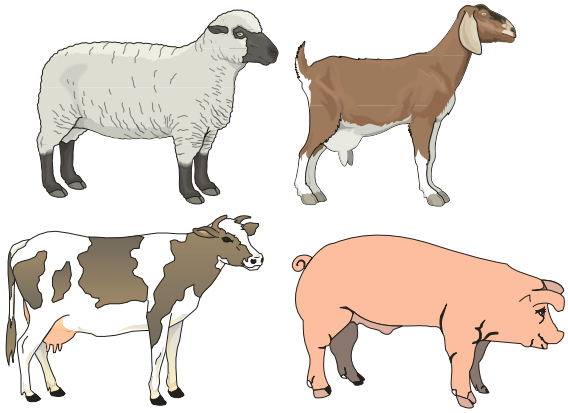
Typical applications



File transfer via USB



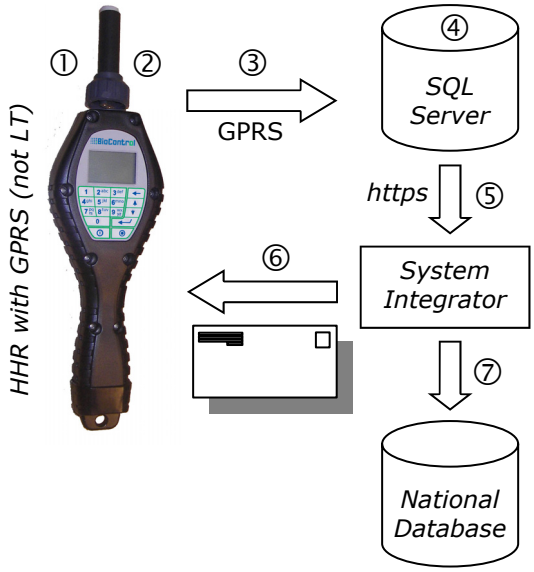
RFID number dump via Bluetooth
and
file transfer via Bluetooth
(not LT)





*RS232 interface to popular weighing computers, such as Tru-Test, Gallagher, Iconix**
** = contact us for details*

System Integrator using GPRS-HHR for Bureau Service



1. System Integrator (SI) makes HHR Application Program with 'normal' HHR programming tools and supplies HHR to farmer
2. Farmer records on HHR holding register, animal movements, treatments, etc., as defined by SI and presses 'send' when ready
3. Data is transferred via GPRS through local GSM Service Provider: low data transmission costs
4. Data goes to SQL-server (can be BioControl server), for retrieval by authorized SI only
5. SI retrieves data from server via secure https
6. SI processes recorded farm data record and makes data available to farmer in tailored solution (paper copy, fax, email, etc.)
7. SI sends data to national database, if available

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