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 09901-3 HHR 3000 Pro V2/1. Specification may be changed without prior notice.
BioControl AS, Grimstad Gård, N-1890 Rakkestad, Norway — T: +47 6922 5255 — F: +47 6922 3810 — post@biocontrol.no — www.biocontrol.no
HHR-LT is the 'entry' model of the well proven HHR 3000 reader family. HHR-LT is standard equipped with both USB and RS232.

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

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

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

Approved, certified and acknowledged
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 (1) 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 LT1) clearly indicate reading and attention alerts. 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
## Technical details

### HHR 3000 Pro V2

- **Antenna:** External antenna (different models)
  - Exchangeable antenna available
- **Read range:**
  - Superb read range for easy EID of all livestock (cattle, deer, sheep, etc.)
  - 50 cm with Allflex HDX 32 mm. ear tag
  - 30 cm with Allflex FDX-B 27 mm. ear tag
  - Limited dynamic reading with Panel Antenna. For reading constraint animal only (e.g. weighing)
- **Memory (non-volatile):** 512 kByte
- **Optional additional interface:** RS232, Bluetooth 2.0, GPRS
  - Standard RS232.
  - Bluetooth and GPRS not possible
- **Indicator LED’s:** Red/green
- **Supplied with carrying bag:** Yes
- **Color housing:** Black
- **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

### HHR 3000 Pro V2LT

- **Antenna:** Internal ferrite antenna
  - Exchangeable antenna not possible
- **Read range:** 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):** 256 kByte
- **Optional additional interface:**
  - Standard RS232.
  - Bluetooth and GPRS not possible
- **Indicator LED’s:** No
- **Supplied with carrying bag:** No
- **Color housing:** 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

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* = HHR 3000 Pro V2LT
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