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# **HANDHELD READER HHR 3000 PRO V2**

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## **HHR 3000 PRO**

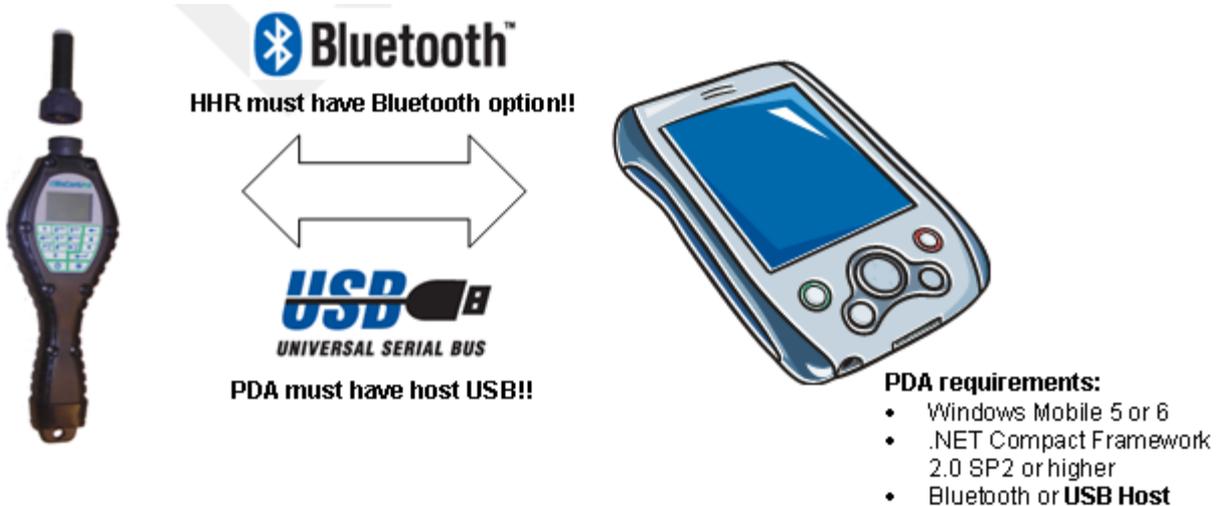
### **HHR PDA Manager User Manual**

**This paper is compatible from 3.20 versions of  
HHR Manager and Operating System**

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## HHR PDA CONNECTION



HHR PDA Manager is PDA software tool that enables user to upload and download HHR Application Program with its database(both TABLE and LOG) on PDA. **HHR PDA Manager enables to send only compiled Application Programs**, that means that user has to compile Application Program on PC with HHR Manager v. 3.20 or higher, and copy compiled file (with \*.bin extension) to PDA. Next, on PDA user can send the compiled Application Program attaching TABLE or LOG files, important is that TABLE and LOG files must match selected compiled Application Program.

## SOFTWARE REQUIREMENTS

HHR PDA Manager is application that requires:

1. Windows Mobile 5 or 6 running on PDA,
2. .NET Compact Framework 2.0 SP2 or higher installed on PDA,
3. Bluetooth or USB Host included in PDA.

## INSTALLATION

To use HHR PDA Manager with PDA using USB Host user has to install VCP drivers; if using BlueTooth Virtual Com Port, drivers are included in Windows Mobile Operating System.

Please use following software:

HHR Manager version 3.20

Operating system version 3.20

HHR PDA Manager version 1.0

Drivers for USB Host: please see points below.

### ***Installation of USB Host drivers.***

To install USB drivers user has to follow steps:

1. Depending on PDA MCU user has to copy files from directory :  
ARMv4VCP Driver Biocontrol(for ARM/XScale MCU);  
CEPCVCP Driver Biocontrol(for x86 MCU);  
to //Windows Directory on PDA;
2. Connect HHR to USB Host Port with provided HHR-PC Cable;
3. Type in driver name (ftdi\_ser.dll) in window which will appear;
4. Installation is completed.

If problems occur please refer to “Windows\_CE\_Installation\_Guide.pdf” which is placed in Drivers directory.

### ***Installation of HHR PDA Manager.***

To install HHR PDA Manager please copy “HHR PDA Manager.exe” from PC to PDA with Active Sync connection or SDCard.

It is extremely important that PDA has installed .NET Compact Framework 2.0 SP2 or higher.

## HOW IT WORKS

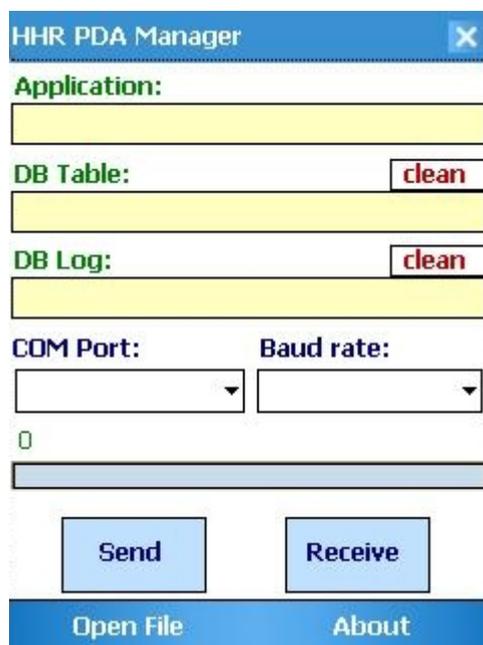
### PDA

To Send Application Program with its Database using PDA user has to follow steps:

1. Compile Application Program on PC using HHR Manager, attaching Table or Log is possible; compiled file will be created in the same directory where Application Program is, the compiled file extension is bin;
2. Copy compiled Application Program to PDA and run HHR PDA Manager;
3. Select appropriate COM port and Transmission Speed(Baud Rate), detailed description in following points;
4. Attach Table or Log files if necessary;
5. Press Send and wait for message confirming uploading of data.

To receive Application Program with its Database using PDA user has to follow steps:

1. Run HHR PDA Manager;
2. Select appropriate COM port and Transmission Speed(Baud Rate), detailed description in following points;
3. Press Receive and select file for received data;
4. Wait for end message confirming downloading of data.



## HHR

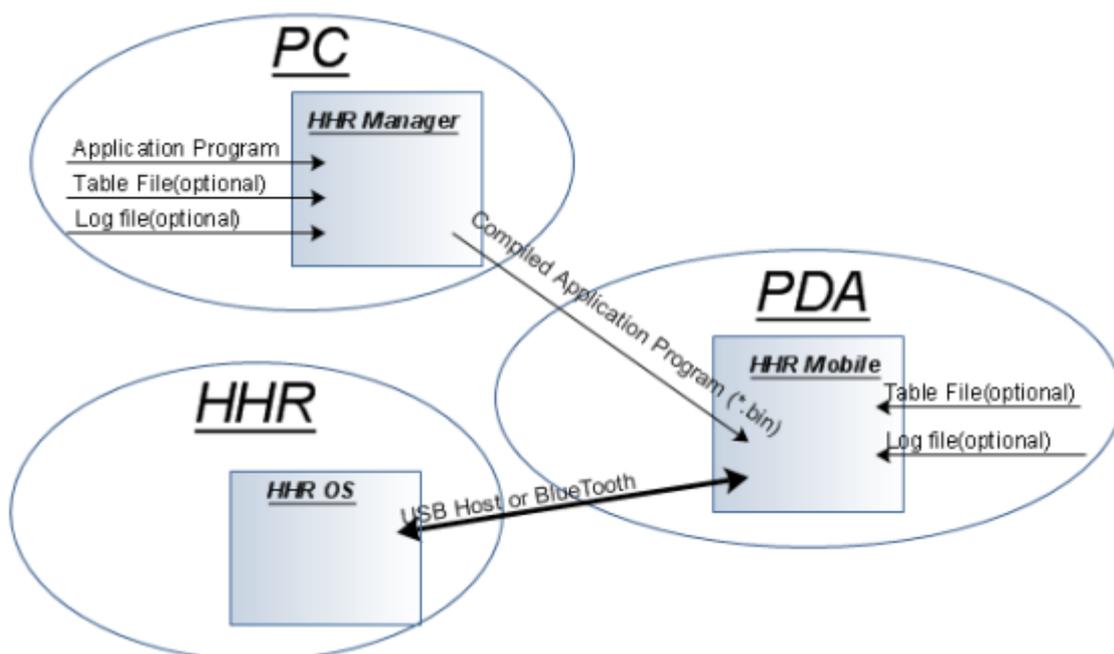
To handle sending Application Program and DB to HHR using PDA, user has to select interface(USB or BlueTooth) in “Load New Application” Menu which appears then HHR OS has started and if there is no Application Program in HHR

USB is standard interface, it works the same as on HHR Manager.

If using BlueTooth user has to select BlueTooth from “Loading New Application” Menu which will appear on start when no Application Program is in HHR,

If there is working Application Program in HHR memory, to call “Loading New Application” Menu user has to press '1' during Start Screen. To pair PDA and HHR user has to configure BlueTooth with Pin and Name displayed on HHR screen.

**If your HHR doesn't contain BT module, you must not select BlueTooth in “Load New Application Menu”, this will cause error E3, and restarting of HHR is necessary.**



## SELECTING VIRTUAL COM PORT

HHR PDA Manager enables to work both with BlueTooth and USB Host, so user has to select manually appropriate COM port.

Maximum transmission speed may vary between PDA producers, and PDA models. Use speed that is appropriate for your PDA, this information may be found in documentation of PDA.

### Selection VCP on USB

To communicate with HHR using USB user has to select appropriate for it COM Port. To do this use User Manual provided with PDA. VCP for USB Host is usually COM0, but it may vary between PDAs.

## Selection VCP on BlueTooth

To communicate with HHR using BlueTooth, user has to connect with outgoing Serial Com Port on PDA. To do this use User Manual provided with PDA.