



# **BIOTRACK CORE SYSTEM SUPPORTED HARDWARE**

UPDATED IN 2019

## **CATEGORIES**

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The equipment listed below has been hand-selected and approved to save you time and provide the best experience possible integrating with your BioTrackTHC. **Items that are not listed on this document, or approved by BioTrackTHC, cannot be guaranteed support if you encounter issues with that particular piece of hardware.** Many states and counties have compliance requirements that will likely dictate your final equipment decisions, however, the specifications listed here will allow you to select tools that meet your unique business needs. Additionally, you will find the minimum specs required for servers and terminals.

The vendors included below are familiar with the needs of BioTrackTHC customers and will pre-configure your equipment to streamline installations. Please note, you can purchase equipment on your own or place an order with one of our vendors directly.

## VENDORS



**DAVE MONTAG**  
DAVE@COMPUTERREVOLUTIONS.COM  
OFFICE: (563) 888-5116  
4512 AVENUE OF THE CITIES, SUITE  
103 - MOLINE, IL 61265  
3207 DEVILS GLEN ROAD, BETTENDORF,  
IOWA 52722



**ALEN NGUYEN**  
OFFICE: (253) 981-4132  
309 49TH ST NE, AUBURN,  
WA 98002



**JAY TITTMAN**  
OFFICE: (303) 759-2020  
2020 S. PONTIAC WAY, DENVER,  
CO 80224



**JEFF**  
OFFICE: (855) 246-3227

# BIOTRACK SOFTWARE MINIMAL REQUIREMENTS

## SERVER/VPS REQUIREMENTS:

- **MUST BE DESKTOP, DO NOT USE LAPTOP**
- **OPERATING SYSTEMS:** WINDOWS SERVER 2016, WINDOWS SERVER 2012 AND WINDOWS SERVER 2012 R2, WINDOWS SERVER 2008 AND WINDOWS SERVER 2008 R2, WINDOWS 10 PRO
- **PROCESSOR:** INTEL I7 2.4 GHZ + DUAL CORE OR BETTER
- **RAM:** 16GB OR BETTER (BASED ON 1-4 FACILITY LOCATIONS)
- **HDD (STORAGE):** 500 GB SSD, 1 TB HDD (7200 RPM SPEED OR BETTER)

## RECOMMENDED VPS SERVER PROVIDERS:

- BIOTRACKTHC AWS CLOUD SERVICE.

## TERMINAL REQUIREMENTS:

- **OPERATING SYSTEMS:** WINDOWS 8, WINDOWS 8 PRO, WINDOWS 10, AND WINDOWS 10 PRO.
- **PROCESSOR:** INTEL I5/INTEL I7 2.0GHZ+ DUAL-CORE OR BETTER
- **RAM:** 8GB OR BETTER
- **HDD (STORAGE):** 250 GB (7200 RPM SPEED OR BETTER)
- **PORTS:** 4 USB PORTS FOR PERIPHERALS (NOT INCLUDING KEYBOARD AND MOUSE), 1 ETHERNET PORT.

## TABLETS & ALL-IN-ONE DEVICES:

- MICROSOFT SURFACE PRO 2
- ANY TABLET/ALL-IN-ONE THAT MEETS THE TERMINAL REQUIREMENTS WILL WORK.

## INTERNET REQUIREMENTS:

### ONSITE SERVER

- **INTERNET ACCESS:** BUSINESS-GRADE CABLE ACCESS OR BETTER.
- **MINIMUM DOWNLOAD SPEED:** 15 MBPS OR BETTER
- **MINIMUM UPLOAD SPEED:** 5 MB OR BETTER
- **STATIC PUBLIC IP ADDRESS FROM ISP** (REQUIRED FOR OFFSITE ACCESS AND BT MENU)

### OFFSITE SERVER

- **INTERNET ACCESS:** BUSINESS-GRADE CABLE ACCESS OR BETTER.
- **MINIMUM DOWNLOAD SPEED:** 25 MBPS OR BETTER
- **MINIMUM UPLOAD SPEED:** 10 MB OR BETTER
- **STATIC PUBLIC IP ADDRESS FROM ISP** (REQUIRED FOR OFFSITE ACCESS AND BT MENU)

## SERVER BACKUP:

- WE RECOMMEND AN EXTERNAL HDD (HARD DRIVE) 200GB+ AS A SECONDARY BACKUP SOLUTION.

IN ORDER TO ACTIVATE YOUR BACKUP SIMPLY PLUG THE EXTERNAL HARD DRIVE TO THE SERVER TERMINAL, BIOTRACKTHC™ WILL AUTOMATICALLY BACKUP YOUR DATABASE TO THE C:/ DRIVE AS WELL AS THE EXTERNAL HARD DRIVE. IN ADDITION: WE'LL NEED TO MAKE A CHANGE TO SETTINGS.INI FILE (C:\PROGRAM FILES (X86)\BTMSI\BTMSISERVER) IN ORDER TO CREATE BACKUPS ON OTHER DRIVES.

## LABEL PRINTERS

CULTIVATION

PROCESSING

RETAIL

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### REQUIRED FOR NEVADA CULTIVATION & PROCESSORS



#### *Zebra GC420D Direct Thermal Label Printer*

Standard tear-off mode, Head-up sensor, Auto calibration of media, Reset feature button

CULTIVATION

PROCESSING

RETAIL



#### *Zebra ZD410 Direct Thermal Printer*

Standard tear-off mode, Head-up sensor, Auto calibration of media, Reset feature button

*For applications that require a thermal transfer printer, Zebra offers the TLP2824 Plus*

## LABEL PRINTERS CONT.

**SOLD EXCLUSIVELY THROUGH STOVER**

**CULTIVATION  
ONLY**



### *The Stover Manufacturing 4.25" Modified Thermal Printer*

Standard tear-off mode, Head-up sensor, Auto calibration of media, Reset feature button

## FOR MORE INFORMATION PLEASE CONTACT:

**STOVER**  
THERMAL TAGS & LABELS  
for NURSERY, GREENHOUSE, & RETAIL

**JEFF**  
OFFICE: (855) 246-3227

## SCALES

Supported A&D, and Ohaus scales

PROCESSING

RETAIL



### *A&D FX-1200iN NTEP*

Weigh Modes: g, oz, lb  
Features: RS-232, Legal For Trade, NTEP Class II

**\*TRENDnet TU-S9 USB To RS232 Serial Cable Required**  
**\*DB9 Female To Female RS232 Adapter Required**

CULTIVATION

PROCESSING



### *A&D FG-30KAMN NTEP*

Weigh Modes: lb, kg, oz  
Features: RS-232, Legal For Trade, NTEP Class III

**\*TRENDnet TU-S9 USB To RS232 Serial Cable Required**  
**\*DB9 Female To Female RS232 Adapter Required**

CULTIVATION

PROCESSING

RETAIL

### REQUIRED IN OREGON AND SOME CALIFORNIA COUNTIES



### *A&D FX-300iN NTEP*

Weight Modes: g, oz, lb, lb-oz, ozt, ct, mom, dwt, GN, tl, tol, mes, pcs, % and MLT  
Features: RS-232, Legal For Trade, NTEP Class III

**\*TRENDnet TU-S9 USB To RS232 Serial Cable Required**  
**\*DB9 Female To Female RS232 Adapter Required**

## SCALES CONT.

CULTIVATION

PROCESSING

RETAIL



### *A&D EK-1200i NTEP*

Weigh Modes: g, oz, lb, ozt, dwt, ct, mo, gn  
Features: Legal For Trade, Parts Counting  
RS-232c, NTEP Class II

**\*TRENDnet TU-S9 USB To RS232 Serial Cable Required**

**\*DB9 Female To Female RS232 Adapter Required**

CULTIVATION

PROCESSING

RETAIL



### *Ohaus - PAJ812N Gold Plus NTEP*

Weighing Units  
g, mg, ct, oz, ozt, gn, dwt, 810g Capacity, 0.01g  
Readability, RS-232c  
Approval: Class II

**\*ST Lab U-224 USB to 1P Serial Cable Required**

CULTIVATION

PROCESSING

RETAIL



### *Ohaus - PAJ3102N Gold Plus NTEP*

Weighing Units: g, mg, ct, oz, ozt, gn, dwt, 3100g  
Capacity, 0.01g Readability, RS-232c  
Approval: Class II

**\*ST Lab U-224 USB to 1P Serial Cable Required**

## SCALES CONT.

**MODEL D51T15HR1-BT (EXCLUSIVELY THROUGH RMBP)  
THIS SCALE IS SPECIALLY PROGRAMED TO INTEGRATE WITH  
BIOTRACKTHC**

CULTIVATION

PROCESSING



*Ohaus - Defender® 5000*

This scale integrates and reads 15,000 g. x 2 g.  
Approval: Class II

**FOR MORE INFORMATION PLEASE CONTACT:**



**JAY TITTMAN**

OFFICE: (303) 759-2020  
2020 S. PONTIAC WAY, DENVER,  
CO 80224



## SCALE CABLES AND ADAPTERS

Cables, and adapters needed to integrate your scale in BioTrackTHC

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### A&D SCALES



#### *TRENDnet TU-S9 USB to RS232 Serial Converter*

USB to Serial converter is used to connect a scale to the terminal to therefore integrate it with BioTrackTHC.

Both TRENDnet and DB9 adapters are needed in order to integrate A&D Scales.



#### *DB9 Female to Female*

Serial RS232 Gender Changer is used to connect the USB to Serial converted cable to back of scale.

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### OHAUS SCALES



#### *ST Lab U-224 USB to 1P Serial cable*

Fully compliant with USB 1.1, Supports RS232 serial interface, Data Transfer Rate: up to 230400bps, Length: 1.5m, OS Supports: Windows® 2000/XP/ Server 2003/Vista

This Serial Cable is required for most Ohaus Scales.

## BARCODE SCANNERS

CULTIVATION

PROCESSING

RETAIL



### *Zebra DS4800 Series Barcode Scanner*

Capture every barcode that is presented at your POS - 1D, 2D, printed on labels, displayed on a mobile phone screen, high density, poorly printed, damaged and under shrinkwrap.

Customizable Skinds, Connectivity: Coded, Form Factor: Hand Held, Connection Type: USB

CULTIVATION

PROCESSING

RETAIL



### *Motorola LI4278 - Cordless*

Radio type: Bluetooth  
Radio range: 330 ft./100 m (line of sight)

CULTIVATION

PROCESSING

RETAIL



### *Unitech MS340-CUCB00-SG Barcode Scanner*

Connectivity: Corded  
Form Factor: Handheld  
Connection: USB

RETAIL ONLY



### *POS-X EVO 2D*

EVO Laser Bar-code Scanner, USB

## BARCODE SCANNERS

CULTIVATION

PROCESSING

RETAIL

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### FOR USE IN NORTH DAKOTA



#### *Unitech MS926 Bluetooth Companion 2D Scanner, USB - MS926-UUBBAA-SG*

CORDLESS SCANNER, MS926, 2MB MEMORY, 2D IMAGER, BLUETOOTH, USB CABLE, POWER ADAPTER, MS926-UUBBAA-SG

## RECEIPT PRINTERS

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RETAIL  
ONLY



### *STAR TSP100 Thermal RECEIPT PRINTER*

- All-in-one-box accessories and software
  - Fast printing speed up to 125mm/sec
  - Prints crisp, clear logos, coupons and barcodes
  - Easy-to-use features
  - Integrated power supply
  - Lowest power consumption in its class
- 

RETAIL  
ONLY



### *EVO-PT3-2GUS*

- INTERFACES: USB, Serial, and Ethernet
  - EMULATION: ESC/POS
  - PRINT SPEED: 220mm/sec
  - RELIABILITY: 60,000,000 Lines
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## BATTERY BACKUP PROTECTION

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CULTIVATION

PROCESSING

RETAIL

### RECOMMENDED FOR ALL WORKSTATIONS TO PREVENT SHUTDOWN DURING BLACKOUT



### *S70 Line Interactive UPS*

- 700 - Client
  - 1500 - Server
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## OTHER ACCESSORIES

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RETAIL  
ONLY



### *POS-X Xm95*

DIMENSIONS: 1.3" x 3.5" x 1.1"  
WEIGHT: 4.6 oz (130.4 g)  
Interface Cable Length: 6'  
COLOR: Black

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RETAIL  
ONLY



### *Futronic's FS80H / FS81H USB2.0 Fingerprint Scanner*

Futronic's FS80H USB2.0 Fingerprint Scanner uses advanced CMOS sensor technology and precise optical system to deliver high quality fingerprint image. It can capture an almost un-distorted raw fingerprint image into PC in 100ms. So it is good for any fingerprint recognition application.

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RETAIL  
ONLY



### *APG Series 100 Cash Drawer*

\*May Require APG Universal Cable - 320 Multi-PRO Cable Kit.

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# CULTIVATION HARDWARE CHECK LIST

| <b>GROW TERMINAL</b>  | Quantity             | Check purchased items    |
|---|----------------------|--------------------------|
| • <a href="#">Minimum Specs</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| • <a href="#">Internet Access</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Barcode Scanner Options</b>  |                      |                          |
| • Motorola LI4278 - Cordless.....   | <input type="text"/> | <input type="checkbox"/> |
| • Unitech MS340 - Corded.....   | <input type="text"/> | <input type="checkbox"/> |
| • Zebra DS4800 - Corded.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Label Printer Options</b>  |                      |                          |
| • Zebra TLP 2824 PLUS (Low Volume).....   | <input type="text"/> | <input type="checkbox"/> |
| • The Stover Manufacturing 4.25" Modified Thermal Printer (High Volume).....              | <input type="text"/> | <input type="checkbox"/> |
| <b>Optional</b>   |                      |                          |
| • Futronic's FS80H / FS81H USB2.0 Fingerprint Scanner.....                                | <input type="text"/> | <input type="checkbox"/> |
| <b>HARVEST TERMINAL</b>   |                      |                          |
| • <a href="#">Minimum Specs</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| • <a href="#">Internet Access</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Barcode Scanner Options</b>  |                      |                          |
| • Motorola LI4278 - Cordless.....   | <input type="text"/> | <input type="checkbox"/> |
| • Unitech MS340 - Corded.....   | <input type="text"/> | <input type="checkbox"/> |
| • Zebra DS4800 - Corded.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Label Printer Options</b>  |                      |                          |
| • Zebra TLP 2824 PLUS.....  | <input type="text"/> | <input type="checkbox"/> |
| • Zebra ZD410 - Direct Thermal.....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Scale Options</b> (for intergration please check <a href="#">Cables and Adapters</a> ) |                      |                          |
| • A&D FG-30KAMN NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • Ohaus Defender 5000.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Optional</b>   |                      |                          |
| Futronic's FS80H / FS81H USB2.0 Fingerprint Scanner.....                                  | <input type="text"/> | <input type="checkbox"/> |

# CULTIVATION & PROCESSING HARDWARE CHECK LIST

| <b>PROCESSING TERMINAL</b>  | Quantity             | Check purchased items    |
|---|----------------------|--------------------------|
| • <a href="#">Minimum Specs</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| • <a href="#">Internet Access</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Barcode Scanner Options</b>  |                      |                          |
| • Motorola LI4278 - Cordless.....   | <input type="text"/> | <input type="checkbox"/> |
| • Unitech MS340 - Corded.....   | <input type="text"/> | <input type="checkbox"/> |
| • Zebra DS4800 - Corded.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Label Printer Options</b>  |                      |                          |
| • Zebra TLP 2824 PLUS (Low Volume).....   | <input type="text"/> | <input type="checkbox"/> |
| • Zebra ZD410 - Direct Thermal.....   | <input type="text"/> | <input type="checkbox"/> |
| • Zebra GC420d - Direct Thermal.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Scale Options</b> (for intergration please check <a href="#">Cables and Adapters</a> ) |                      |                          |
| • A&D FX-1200iN NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • A&D EK-1200iN NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • A&D FX-300iN NTEP.....  | <input type="text"/> | <input type="checkbox"/> |
| • A&D FG-30KAMN NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • Ohaus Defender 5000.....  | <input type="text"/> | <input type="checkbox"/> |
| • Ohaus PAJ812N Gold Plus NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • Ohaus PAJ3102N Gold Plus NTEP.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Optional</b>   |                      |                          |
| • Futronic's FS80H / FS81H USB2.0 Fingerprint Scanner.....                                | <input type="text"/> | <input type="checkbox"/> |

# CULTIVATION & PROCESSING HARDWARE CHECK LIST CONT.

## LABELS & TAGS CHECKLIST

|   | Quantity             | Check purchased items    |
|---|----------------------|--------------------------|
| <b>Zebra TLP2824 Plus Label Sizes</b>                       | <input type="text"/> | <input type="checkbox"/> |
| • 2.25 x 1.25 Direct Thermal (Plant Tag).....               | <input type="text"/> | <input type="checkbox"/> |
| • 2.25 x 4 Direct Thermal (Inventory Tag).....              | <input type="text"/> | <input type="checkbox"/> |
| <b>Zebra TLP2824 Plus Label Sizes</b>                       |                      |                          |
| • 2.25 x 1.25 Direct Thermal (Plant Tag).....               | <input type="text"/> | <input type="checkbox"/> |
| • 2.25 x 4 Direct Thermal (Inventory Label).....            | <input type="text"/> | <input type="checkbox"/> |
| <b>Zebra GC420D Label Sizes</b>                             |                      |                          |
| • 2.25 x 1.25 Direct Thermal (Plant Tag).....               | <input type="text"/> | <input type="checkbox"/> |
| • 4 x 2.25 Direct Thermal (Inventory Label).....            | <input type="text"/> | <input type="checkbox"/> |
| • 2.25 x 4.75 Direct Thermal (Inventory Label).....         | <input type="text"/> | <input type="checkbox"/> |
| • 3 x 4 Direct Thermal (Inventory Label).....               | <input type="text"/> | <input type="checkbox"/> |
| <b>Stover Plant Tags Size</b>                               |                      |                          |
| • 1"x9" wrap tags, t-lock mechanism (WOT9X1C).....          | <input type="text"/> | <input type="checkbox"/> |
| • 1"x9" wrap tags keyhole locking mechanism (WP9X1).....    | <input type="text"/> | <input type="checkbox"/> |
| <b>Receipt Paper Size</b>                                   |                      |                          |
| • THERMAL PAPER ROLL - 3 1/8" X 230.....                    | <input type="text"/> | <input type="checkbox"/> |
| <b>BioTrackTHC Traceability Tags</b>                        |                      |                          |
| • 3 x 2.25 Thermal Transfer (Plant Tags).....               | <input type="text"/> | <input type="checkbox"/> |
| • <i>Requires Wax/resing hybrid ribbon TRX-50 or TRX-55</i> |                      |                          |
| • 3.875 x 2.25 Thermal Direct (Inventory Tags).....         | <input type="text"/> | <input type="checkbox"/> |



# POINT-OF-SALES HARDWARE CHECK LIST

| POINT-OF-SALE TERMINAL  | Quantity             | Check purchased items    |
|---|----------------------|--------------------------|
| • <a href="#">Minimum Specs</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| • <a href="#">Internet Access</a> .....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Barcode Scanner Options</b>  |                      |                          |
| • Motorola LI4278 - Cordless.....   | <input type="text"/> | <input type="checkbox"/> |
| • Unitech MS340 - Corded.....   | <input type="text"/> | <input type="checkbox"/> |
| • POS-X EVO 2D - Cordless.....  | <input type="text"/> | <input type="checkbox"/> |
| • Zebra DS4800 - Corded.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Receipt Printer Options</b>  |                      |                          |
| • STAR TSP100.....  | <input type="text"/> | <input type="checkbox"/> |
| • POS-X EVO-PT3-2GUS.....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Cash Drawer Options</b>  |                      |                          |
| • APG Series 100.....   | <input type="text"/> | <input type="checkbox"/> |
| • APG Universal Cable - 320 Multi-PRO Cable Kit.....                                      | <input type="text"/> | <input type="checkbox"/> |
| <b>Scale Options</b> (for intergration please check <a href="#">Cables and Adapters</a> ) |                      |                          |
| • A&D FX-1200iN NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • A&D FX-300iN NTEP.....  | <input type="text"/> | <input type="checkbox"/> |
| • A&D EK-1200i NTEP.....  | <input type="text"/> | <input type="checkbox"/> |
| • Ohaus PAJ812N Gold Plus NTEP.....   | <input type="text"/> | <input type="checkbox"/> |
| • Ohaus PAJ3102N Gold Plus NTEP.....  | <input type="text"/> | <input type="checkbox"/> |
| <b>Label Printer Options</b>  |                      |                          |
| • Zebra TLP 2824 PLUS (Low Volume).....   | <input type="text"/> | <input type="checkbox"/> |
| • Zebra ZD410 - Direct Thermal.....   | <input type="text"/> | <input type="checkbox"/> |
| <b>Optional</b>   |                      |                          |
| • Futronic's FS80H / FS81H USB2.0 Fingerprint Scanner.....                                | <input type="text"/> | <input type="checkbox"/> |
| • POS-X XM95 Mag-Stripe Reader.....   | <input type="text"/> | <input type="checkbox"/> |

# POINT-OF-SALES HARDWARE CHECK LIST CONT.

| CHECK-IN TERMINAL  | Quantity             | Check purchased items    |
|--|----------------------|--------------------------|
| • <a href="#">Minimum Specs</a> .....                      | <input type="text"/> | <input type="checkbox"/> |
| • <a href="#">Internet Access</a> .....                    | <input type="text"/> | <input type="checkbox"/> |
| <b>Optional</b>  |                      |                          |
| • Futronic's FS80H / FS81H USB2.0 Fingerprint Scanner..... | <input type="text"/> | <input type="checkbox"/> |
| • POS-X XM95 Mag-Stripe Reader.....                        | <input type="text"/> | <input type="checkbox"/> |
| • Zebra DS4800 - Corded.....                               | <input type="text"/> | <input type="checkbox"/> |