LOWRY SOLUTIONS INC.
9420 MALTBY ROAD
BRIGHTON, MI 48116

Ordering Guide

For the AIT V
Contract W52P1J-15-D-0060

Version 1.21

5/8/2018
## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Author</th>
<th>Description of Change</th>
</tr>
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<tbody>
<tr>
<td>06/03/15</td>
<td>D. Bishop</td>
<td>Initial submission.</td>
</tr>
<tr>
<td>07/03/15</td>
<td>D. Bishop</td>
<td>Incorporated format changes recommended by PD AMIS</td>
</tr>
<tr>
<td>07/08/15</td>
<td>D. Bishop</td>
<td>Incorporated Government issued CCP APM 001</td>
</tr>
<tr>
<td>08/14/15</td>
<td>D. Bishop</td>
<td>Incorporated Contract Modification P0001</td>
</tr>
<tr>
<td>08/25/15</td>
<td>D. Bishop</td>
<td>Incorporated Government comments dated 08/24/15</td>
</tr>
<tr>
<td>11/16/15</td>
<td>D. Bishop</td>
<td>Incorporated Mod P0002 and Mod P0003</td>
</tr>
<tr>
<td>03/09/16</td>
<td>K. Copeland</td>
<td>Incorporated Mod P0004 and Mod P0005</td>
</tr>
<tr>
<td>04/11/16</td>
<td>R. Urben</td>
<td>Incorporated Aruba product change</td>
</tr>
<tr>
<td>05/19/16</td>
<td>R. Urben</td>
<td>Incorporated Honeywell Service Part Number changes - CCP AL013 and Government Issued - CCP AMP 004</td>
</tr>
<tr>
<td>06/03/16</td>
<td>R. Urben</td>
<td>Added product pictures for CLINs X001EA, X001FA, X005AA, X005BA and X005BB and revised product descriptions</td>
</tr>
<tr>
<td>06/10/16</td>
<td>R. Urben</td>
<td>Revised and edited some part numbers, descriptions and price discrepancies between the ordering guide and CCP’s</td>
</tr>
<tr>
<td>07/11/16</td>
<td>R. Urben</td>
<td>Changed part number for CLIN X001EA, and updated the description. Changed email address for Amanda Struve. Version 1.12 07/11/16.</td>
</tr>
<tr>
<td>09/10/16</td>
<td>R. Urben</td>
<td>ALO 015 Rev 1, 09/10/16 - Changed part number for AC power supply for CLINS X001AG, X001AH, X001BG, X001BH, X001CG, X001CH, X001DG, x001DH</td>
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<tr>
<td>11/02/16</td>
<td>R. Urben</td>
<td>ALO 016 Rev 0, 11/02/16 - Changed part numbers for power supplies, SD cards and batteries. Changed last three digits to XXX to provide for frequent Rev level changes.</td>
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<tr>
<td>04/11/17</td>
<td>R. Urben</td>
<td>ALO 017 Rev 1, 04/11/17 - Changed Part Number for CLIN X001FA to include an updated Processor and reference to the eMMC memory card. Changed Part Number for CLIN X013AA for updated version of software.</td>
</tr>
<tr>
<td>Date</td>
<td>Author</td>
<td>Description of Change</td>
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<tr>
<td>7/13/17</td>
<td>R. Urben</td>
<td>APM 005 Rev 4, 7/13/17 - Changed Descriptions for CLINs 001EA, 1001EA, 2001EA, 001FA, 1001FA and 2001FA to include language on HAZ LOC, Class I Div 2, Groups A,B,C,D Ver 1.16</td>
</tr>
<tr>
<td>01/15/18</td>
<td>R. Urben</td>
<td>ALO 018 Rev 1, 1/15/18 – Changed manufacturer part numbers for CLIN’s X009AA, X009AB, X009AC and X009AD. No change in pricing. Ver 1.17</td>
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<tr>
<td>01/18/18</td>
<td>R. Urben</td>
<td>APM 006 Rev 2, 1/18/18 – Added Hand Held Terminal – G (HHT-G) Integrated Imager, Full Alphanumeric Keypad Capability, Small Display and NI Certified and Accessories. Ver 1.18</td>
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<tr>
<td>02/28/18</td>
<td>R. Urben</td>
<td>ALO 019 Rev 2, 2/28/18 – Change CLIN’s X001FJ and X001FN due to part number change only. No change in pricing. Ver 1.19</td>
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<tr>
<td>03/20/18</td>
<td>R. Urben</td>
<td>ALO 020, 3/20/18 – Change part number for CLIN X001EA due to upgrades in processor, barcode scanner and SSD. No change in pricing. Ver 1.20</td>
</tr>
<tr>
<td>05/08/18</td>
<td>K. Copeland</td>
<td>Contract Extension and elimination of HHT-A, HHT-B, HHT-C and HHT-D Ver 1.21</td>
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10. CLIN List and Prices
## 1. Configuration Management and Status Log

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Description</th>
<th>Version</th>
<th>Status</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>X001EA</td>
<td>Hand Held Barcode Terminal (HHT-E) Integrated Imager, Full Alphanumeric Keypad Capability and Large Display</td>
<td>Win 10 Pro</td>
<td>Baseline</td>
<td>5/10/2015</td>
</tr>
<tr>
<td>X001FA</td>
<td>Hand Held Barcode Terminal (HHT-F) Integrated Imager, Full Alphanumeric Keypad Capability and Small Display</td>
<td>Win 10 Pro</td>
<td>Baseline</td>
<td>5/10/2015</td>
</tr>
<tr>
<td>X001GA</td>
<td>Hand Held Barcode Terminal (HHT-G) Integrated Imager, Full Alphanumeric Keypad Capability and Small Display and NI Certified</td>
<td>Win 10 Pro</td>
<td>Baseline</td>
<td>5/09/2018</td>
</tr>
<tr>
<td>X003AA</td>
<td>Imager for PC Input - General Bar Code (Tethered)</td>
<td>Firmware version BF4_291 Parsing Script version 1.08</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td>X003AB</td>
<td>Imager for PC Input - General Bar Code (Bluetooth)</td>
<td>Includes 1911iER-3-G (Scanner) and CCB02-100BT-07N-G (Base) Firmware revision of 1911iER-3-G is BJ000173AAA Firmware revision of CCB02-100BT-07N-G is BK000168AAA</td>
<td>Baseline</td>
<td>8/10/2015</td>
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<tr>
<td>X003AC</td>
<td>Imager for PC Input - IUID Label Markings</td>
<td>Firmware version BF4_291 Parsing Script version 1.08</td>
<td>Baseline</td>
<td>5/10/2015</td>
</tr>
<tr>
<td>CLIN</td>
<td>Description</td>
<td>Version</td>
<td>Status</td>
<td>Effective Date</td>
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<tr>
<td>--------</td>
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<tr>
<td>X003AD</td>
<td>Imager for PC Input - IUID Direct Part Markings</td>
<td>Firmware version BF4_291</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td></td>
<td></td>
<td>Parsing Script version 1.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X005AA</td>
<td>Portable/Wearable Bar Code Label Printer</td>
<td>MFW-SHSTR11T22</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td>X005BA</td>
<td>Stationary Bar Code Label Printer</td>
<td>K10.07.009375</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td>X005BB</td>
<td>Stationary Bar Code Label Printer, with Installed Take-Up Reel</td>
<td>P10.07.009375</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td>X007AA</td>
<td>Laser Marking Equipment</td>
<td>10.1</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<td>X007AC</td>
<td>Desktop Verifier for Labels</td>
<td>Version 0.3.15</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td>X009AA</td>
<td>Radio Frequency Access Point (indoor environment)</td>
<td>Gateway version ArubaOS_6xx_6.1.4.5-FIPS</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<td>X009AB</td>
<td>Radio Frequency Access Point (NEMA)</td>
<td>Gateway version ArubaOS_6xx_6.1.4.5-FIPS</td>
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<td>X009AC</td>
<td>Radio Frequency Gateway</td>
<td>ArubaOS_6xx_6.1.4.5-FIPS</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<tr>
<td>X013AA</td>
<td>Bar Code Label Design and Printing Software</td>
<td>10.1</td>
<td>Baseline</td>
<td>5/10/2015</td>
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<td>X013AB</td>
<td>Small Arms Room Management Software</td>
<td>3.0</td>
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<td>5/10/2015</td>
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2. Contract Summary

Contract Number
W52P1J-15-D-0060

Scope
The mission of Automated Movement and Identification Solutions (AMIS) is to provide a single point of contact for procurement and technical expertise across the suite of Automatic Identification Technology (AIT) enabling technologies that support focused logistics, Total Asset Visibility (TAV), and the integration of global supply chains. The Automatic Identification Technology (AIT-V) contract is multiple award, Indefinite Delivery Indefinite Quantity (IDIQ) contracts that provide commercial hardware, software, documentation, and services to authorized users worldwide. Services include training, warranty and maintenance services, and Technical Engineering Services (TES).

The objective of the AIT-V acquisition is to provide a state-of-the-art, common, integrated structure for logistics tracking, locating, and monitoring of assets and processes.

AIT technologies on this contract provides standardization among government users of AIT component purchases from this contract. The user community benefits in competitive competition and products to support their needs of data collection, storage information, and information processing. The standardization and transmission of AIT data greatly enhance systems used by the Department of Defense (DOD), United States Coast Guard (USCG), North Atlantic Treaty Organization (NATO), coalition partners, other Foreign Military Sales (FMS), and other Federal Agencies.

Contract Type
Firm Fixed Price (FFP), Indefinite Delivery Indefinite Quantity (IDIQ) contract

Contract Period
The AIT-V Contract’s Ordering Period is a two-year base contract with a one-year option period.

Base Period: 11 May 2015 - 10 May 2017 (24 months)

Option Period:
11 May 2017 - 10 May 2018 (12 months)
11 May 2018 - 10 May 2019 (12 months)
11 May 2019 - 10 Jun 2019 (1 month)
11 Jun 2019 - 10 Jul 2019 (1 month)
11 Jul 2019 - 10 Aug 2019 (1 month)

CLIN Structure
CLINs are referenced in this document with an X in the first (leftmost) digit.

Replace the X with a digit representing the ordering period
3. Ordering Procedures

3.1 Ordering Guidance - Delivery Orders/Task Orders/Government wide Commercial Purchase Card Orders

1. Orders may be placed by any authorized Contracting Officer or purchase card holder supporting the Department of Defense, the United States Coast Guard (CG), North Atlantic Treaty Organization (NATO), Coalition Partners, other Foreign Military Sales (FMS), and other Federal agencies. Ordering Government Contracting Officers and purchase card holders are empowered to place orders in accordance with the terms and conditions of the contract, the Federal Acquisition Regulation (FAR) and applicable supplements, and their own agency procedures. In addition, an Ordering Guide for Government Contracting Officers can be found on the PD AMIS website, http://www.ait.army.mil/Contracts

2. All Delivery Orders, purchase card orders, and Task Orders issued hereunder are subject to the terms and conditions of this contract. The contract shall control in the event of conflict with any order.

Any request for deviation from the terms of this contract must be submitted to the PCO:

   David J. Burke (PCO)
   Army Contracting Command - Rock Island (ACC-RI)
   Mail to: david.j.burke.civ@mail.mil
   PH: 309-782-7572

3. All requirements under this contract will be ordered by issuance of a DD Form 1155, SF 1449, purchase card form, or other authorized form.

4. In addition to any other data that may be called for in the contract, the following information shall be specified in each order as applicable:

   (a) Date of Order

   (b) Contract and Order number (Note: Delivery Order numbering shall be in accordance with DFARS 204.7004 Only the issuing office (ACC-RI) is authorized to use the numbers 0001-9999).

   (c) Point of contact (name), commercial telephone number, facsimile number, and e-mail address.

   (d) Ordering Contracting Officer's commercial telephone number and e-mail address.

   (e) Description of the supplies to be provided, quantity, unit price, and the associated CLIN/SLIN (See Sect. B). Defense Financing and Accounting Service (DFAS) requires the CLIN/SLIN numbers to be reflected on order forms in order to do initial entry of orders into their automated payment system. When the Contractor submits a request for payment, DFAS will compare the
request for payment of CLIN / SLINs with the orders CLIN / SLINs. (Note: Use of item numbers in Block 19 on the SF 1449 and not CLIN/SLIN numbers will result in payment delays and excessive administrative costs to both the Contractor and the Government).

(f) Delivery date for supplies and performance period for services (see paragraph D. "Delivery Requirements").

(g) Address of place of delivery or performance to include consignee.

(h) Packaging, and shipping instructions, if any.

(i) Accounting and appropriation data and Contract Accounting Classification Reference Number (ACRN). NOTE: DFAS requires an ACRN(s) on all orders.

(j) Invoice and payment instructions to the extent not covered by the contract. Include Wide Area Workflow (WAWF) clause information.

(k) Orders for known Foreign Military Sales (FMS) requirements shall clearly be marked FMS requirement on the face of the order, along with the FMS customer and the case identifier code.

(m) Any other pertinent information.

5. Issuance of an order shall be defined as the award date of the order (see paragraph D. Delivery Requirements).

6. The Government reserves the right to withdraw and cancel an order at any time prior to execution if issues pertaining to the proposed order arise that cannot be satisfactorily resolved. The Ordering Contracting Officers decision on each order shall be final and shall not be subject to protest under FAR Subpart 33.1, Protest, except for a protest that the order increases the scope, period, or maximum value of the contract or a protest of an order valued in excess of $10,000,000. The ACC-RI Ombudsman will review complaints from the AIT-V contractor. The designated Ombudsman is:

    ATTN: AMSAS-GCB/Task and Delivery Order Ombudsman
    1 Rock Island Arsenal,
    Rock Island, IL 61299-8000
    Phone: 309-782-7287
    mailto:usarmy.ria.asc.list.gcb@mail.mil

7. The Government may unilaterally change these ordering procedures at any time and at its sole discretion.

8. Contractor Responsibilities include the following:

    a) Contractor is required to respond to ALL Request for Proposals (RFP) and Request for Quotes (RFQ) by the specified submission date, unless contractor's product is waiting for Government acceptance/approval. The Contractors' proposal shall contain sufficient detail to permit the Government to evaluate the proposal, IAW the stated evaluation criteria. If the proposal is for
TES, the proposal shall comply with the requirements identified in paragraph G. "Task Order Proposals for Technical Engineering Services (TES).

b) Contractor is responsible for all bid and proposal costs incurred in performance of the contract.

c) Performance under orders shall commence only after the receipt of an executed order via facsimile or e-mail and signed by the Ordering Contracting Officer. The Government shall not be obligated to reimburse the Contractor for work performed, items delivered, or any costs incurred, nor shall the Contractor be obligated to perform, deliver, or otherwise incur costs except as authorized by duly executed orders.

3.2 Task Order Proposals for Technical Engineering Services (TES)

1. Upon receipt of a RFP for TES, which includes a description of the tasks; the Contractor shall submit a price proposal as soon as possible but not more than fifteen (15) workdays after receipt of the request, unless so agreed to by the Ordering Contracting Officer. The Contractor's proposal shall contain sufficient detail to enable the Government to determine the acceptability of the proposal and shall include, as a minimum:

   (a) A brief description of the technical approach which demonstrates the Contractor's understanding of the task(s);

   (b) Proposed timeline schedule;

   (c) Proposed labor categories from the Master SLIN Listing (found in Section B, Supplies or Services and Prices/Costs) and the number of hours for each category;

   (d) Proposed Incidental Materials including price and description of each item (see paragraph H. "Incidental Materials") and;

   (e) Proposed price for Travel with a breakout of airfare(s), per diem, rental car(s), and any other travel-related expenses.

   (f) For turnkey proposals only:

      (i) Proposed AIT hardware and software CLINs/SLINs required for the proposed solution, and

      (ii) Any required Government-furnished AIT and Active RFID hardware and software and the associated logistical requirements (e.g., locations and dates for the Government to furnish the items).

2. The Government will negotiate a total FFP for the effort, excluding travel and incidental materials. This FFP will include all labor and per diem required to complete the effort and will be included in the TO according the labor categories listed under SLIN 0017xx. If applicable, the Government will negotiate a separate FFP price for the incidental materials, which will be included in the TO at SLIN 0021AA. The incidental materials will be consistent with paragraph H. "Incidental Materials".
3. Travel: The Contractor may be required to travel in performance of Task Orders issued under the AIT-V contract. Allowable travel and per diem costs are governed by FAR Part 31, and are reimbursable by the ordering agency. Travel in performance of a task order will only be reimbursable to the extent authorized by the ordering agency. All costs associated with travel and per diem will not include any type of fee.

4. The using activity representative, as stated on each Task Order, shall perform inspection and acceptance of all the items contained on the order.

5. PoP for TES cannot extend beyond 12 months from contract expiration.

3.3 Incidental Materials
Incidental Materials shall only include those items/materials necessary to complete the installation service ordered in accordance with paragraph G. "Task Order Proposals for Technical Engineering Services (TES)". The price for the items/materials shall be negotiated on a FFP basis for each TO, if required (see paragraph G. "Task Order Proposals for Technical Engineering Services"). The total negotiated price for incidental materials for each TO shall not exceed $100,000.

3.4 Inspection/Acceptance
The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or performance of nonconforming services at no increase in contract price. If repair/replacement or performance will not correct the defects or is not possible, the Government may seek an equitable price reduction or adequate consideration for acceptance of nonconforming supplies or services. The Government must exercise its post-acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

For delivery orders against this contract that contain only supplies, representatives of the Defense Contract Management Agency (DCMA) shall perform inspection and acceptance of the supplies at origin. The DCMA Contract Administration Services (CAS) directory can be found at http://www.dcma.mil. The CAS directory also identifies the DFAS payment office that is associated with the DCMA.

For all other orders against this contract, the using activity representative as stated on each delivery, task, or Government wide commercial purchase card order shall perform inspection and acceptance of all the items contained on the order.

3.5 Use of Government wide Commercial Purchase Card
The following describes the procedures to be used for ordering items under this contract by using a purchase card. This option to order by use of the purchase card is strictly an alternative method of ordering by the Government and may be used in place of ordering by other order forms that comply with FAR 12.204. The Government reserves the right to unilaterally terminate the use of the purchase card at any time.
1. All ordering offices may use the purchase card as an alternative method of ordering and paying for purchases made under this contract. Purchase card orders are subject to all terms and conditions of this contract, unless otherwise stated in this provision or another provision in this contract.

2. The purchase card is specifically designed for use by the Federal Government. The purchase card is like a typical commercial credit card. However, the authorization limitations of the purchase card are more specific, i.e., only for a particular contract, monthly limitations, certain categories of products or services, etc. The purchase card will be exclusively used for official Government purchases in accordance with the prices, terms, and conditions of this contract. With respect to ordering authority, any authorized user of this contract who is an appointed, recognized Government wide Purchase Card holder may use the purchase card as a means of purchasing items on this contract. For purchase card orders only, this waives the requirement for use of other forms that comply with FAR 12.204. All appointed, recognized Government wide Purchase Card holders are subject to and responsible for complying with

3. Limits for the purchase card are dictated by each using activity major command. These limits for the purchase card are the responsibility of the purchase card holder and the approving office.

4. The Contractor shall accept FFP purchase card orders under the contract made by use of an authorized purchase card.

5. For purchase card orders only, the warranty begins on the day the order is accepted by the Government.

3.6 Government Contractors' Use of Contract

1. If it is in the Government's interest, and if supplies or services required in the performance of a Government contract are available under this contract, Government Ordering Contracting Officers may authorize Contractors to order items or services from the contract under the authority and procedures set out in FAR Part 51, including placing limitations on the orders (51.102(e) (4)).

However, Government contracting officers shall not grant the Government Contractor authorization to communicate with an AIT-V contract holder without the prior approval of an ACC-RI PCO.

Any request for Government contractor use of the AIT-V contract must be submitted to the following ACC-RI PCO:

   David J. Burke (PCO)
   Army Contracting Command - Rock Island (ACC-RI)
   Mail to: david.j.burke.civ@mail.mil
   PH: 309-782-7572

Before issuing an order, the Government Contractor shall forward the order through the Government Contracting Officer granting the authorization to the PCO for this contract. General guidance on submitting requests for the PCO’s approval for use of this contract can be found:

2. Title to all property acquired by a Government Contractor under such an authorization shall vest in the Government unless otherwise specified in the Government Contractor’s contract. Such property shall not be considered to be "Government-Furnished Property" (GFP), as distinguished from "Government Property". The provisions of the clause entitled "Government Property", except its paragraphs (a) and (b), shall apply to all property acquired under such authorization. Authorized ordering Contractors may use their standard commercial ordering formats to place orders under this contract and the orders shall reference the Contract Number.

3. Contractors ordering items or services from the contract shall comply with the requirements set forth in paragraph F. "Ordering Guidance for Delivery Orders/Task Orders/Government wide Commercial Purchase Card Orders" and the reference tool posted on the PDAMIS website titled, "Government Contracting Officer's Ordering Guide".

4. Hardware
4.1 Hand Held Terminal (HHT)

4.1.1 CLIN X001EA - HAND HELD TERMINAL-E (HHT-E) INTEGRATED IMAGER, FULL ALPHANUMERIC KEYPAD CAPABILITY AND LARGE DISPLAY.

For the HHT-E Lowry is offering the Getac F110. The F110 is a true revolution in rugged tablet computing.

The F110 G4 combines powerful 6th gen Intel Core Processors, the latest wireless and a large 11.6 inch widescreen display with a thin and light design that redefines rugged mobility. Designed to be about the size of a typical piece of paper, the new F110 rugged tablet breaks new ground with its large 11.6” display, 6th gen processors, amazing graphics and dual batteries. It’s the thinnest and lightest fully rugged tablet we’ve ever built running Windows OS.

*Intel HD Graphics 520.*

Getac's F110 features the new Intel® HD Graphics 520 providing an unparalleled level of responsiveness and frame rate for both 2d and 3d graphics.

**Brilliant 11.6” Large HD Display.**

Most rugged tablets choose either a large display or a compact design. We chose both. With a large 11.6” widescreen display, the F110 is ideally suited providing plenty of real estate to run Windows and your apps on.

**LumiBond: Better, Brighter, Stronger.**

The F110 utilizes our revolutionary LumiBond™2.0 technology to achieve a display that is more readable, and offers better contrast and more crisp colors than any other rugged tablet display. By bonding the display glass with the touch panel and LCD, we’ve created a single pane that is both more durable and improves readability.

**Dual Battery for Limitless Power.**

One of the best features of the F110 is one of the simplest. Instead of one single removable battery, we built the F110 to have two hot-swappable for potentially infinite, uninterrupted battery life. This enables

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you to remove one of the two rechargeable batteries and replace it with a fresh battery without ever shutting down apps or Windows OS.

**Built-To-Survive.**

The F110 was engineered to protect the tablet against drops, shocks, spills, vibration, dust, liquid and more. The F110 has been independently tested and certified to MIL-STD 810G, IP65 and MIL-STD-461F standards.

**Specifications**

**Power**

- AC Adapter (65W, 100-240VAC, 50/60 Hz)
- Hot swappable Dual Li-ion battery (2160mAH) x 2 (up to 12.4 hours of battery life)

**Dimensions & Weight**

- 12.3” x 8.15” x 0.96” (314 x 207 x 24.5 mm)
- 3.08lbs (1.4 kg)

**Rugged Features**

- MIL-STD 810G and IP65 certified
- MIL-STD 461F ready (Requires MIL-STD 461F 90W AC Adapter sold separately)
- Vibration, drop, temperature & humidity resistant

**Environmental Specifications**

- Operating Temp: -6°F to 140°F / -21°C to 60°C
- Storage Temp: -40°F to 160°F / -40°C to 71°C
- Humidity: 95% RH, non-condensing

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<th>Model / Part Number</th>
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<th>Quantity</th>
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<td>X001EA</td>
<td>Hand Held Barcode Terminal (HHT-E) Integrated Imager, Full Alphanumeric Keypad Capability and Large Display</td>
<td>FG3BLQKA4DHA</td>
<td>GETAC: Getac F110G Basic Tablet, TAA, HAZ LOC, Class 1, Division 2, Groups A, B, C and D, 11.6 (1366X768), 800 NITS Lumibond Sunlight Readable Touchscreen Display, Intel Core i5-7300U vPro 2.6GHz-3.5 GHz Processor, Windows 10 Professional x64, 4MB Cache, 8GB DDR3 RAM,</td>
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<tr>
<td>X001EB</td>
<td>HHT-E warranty upgrade to add 2 years (total 5-year warranty)</td>
<td>GE-SVTBEXT2Y</td>
<td>GETAC: Extended Warranty – Tablet – Year 4 &amp; 5</td>
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</tr>
<tr>
<td>X001EC</td>
<td>HHT-E warranty upgrade to add 4 years (total 7-year warranty)</td>
<td>GE-SVTBEXT4Y</td>
<td>GETAC: Extended Warranty – Tablet – Year 4, 5, 6 &amp; 7</td>
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<tr>
<td>X001ED</td>
<td></td>
<td>GMS4X1</td>
<td>GETAC: Shoulder Harness (4-point; hands)</td>
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<tr>
<td>HHT-E Holster and Shoulder Strap</td>
<td></td>
<td>GMHRX5</td>
<td>GETAC: F110 Bracket with Rotating Hand Strap (for units with integrated SmartCard Reader)</td>
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<tr>
<td>X001EE</td>
<td>HHT-E Detachable Handle and Trigger</td>
<td>N/A</td>
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<tr>
<td>X001EF</td>
<td>HHT-E Rechargeable Battery (1EA)</td>
<td>GBM3X2</td>
<td>GETAC: Hot swappable battery (spare) for the Getac F110 rugged tablet</td>
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<tr>
<td>X001EG</td>
<td>HHT-E Multiple (2) Battery Charger</td>
<td>GCMCU7</td>
<td>GETAC: External dual bay battery charger for the Getac GBM3X2 batteries (F110). Includes Power Supply and cord.</td>
<td>1</td>
</tr>
<tr>
<td>X001EH</td>
<td>HHT-E Single Battery Charger / Docking Station</td>
<td>GDOFU5</td>
<td>GETAC: Getac office dock with port replication for the F110. Includes Power supply and power cord. Includes 1 USB (3.0) Port, 3 USB (2.0) Ports, 1 HDMI Port, 1 VGA Port, 1 RJ45 Ethernet Port, 2 Serial Ports.</td>
<td>1</td>
</tr>
<tr>
<td>X001J</td>
<td>HHT-E One pack of (1) tethered replacement styli</td>
<td>GMPSX7</td>
<td>GETAC: Capacitive Stylus &amp; Tether for the Getac F110 computers</td>
<td>1</td>
</tr>
</tbody>
</table>

Lowry-USBHost     |     | USB Cable for Host Connection 6 ft                         | 1        |
4.1.2 CLIN X001FA - HAND HELD TERMINAL-F (HHT-F) INTEGRATED IMAGER, FULL ALPHANUMERIC KEYPAD CAPABILITY, SMALL DISPLAY.

For the HHT-F Lowry is offering the **Getac T800-G2 Tablet**

**Features of the Getac T800-G2:**

- **Desktop Application Power in a Compact Design**
  Designed to fit ergonomically in one hand, the new T800 tablet is just over 0.9 inches thick, less than 9 x 6 inches in size, weighs just 2.1 lbs and it is designed to easily fit in just one hand. 8.1" TFT LCD HD (1280x800) 600 NITs LumiBond™ sunlight readable LED display with multi-touch technology.

- **Fully-rugged Design**
  Measuring in at 2.1 lbs., and only 0.9" thin, the T800 is light and compact enough to fit in your cargo pocket. It can also stand up to nearly any environment with a fully-rugged MIL-STD-810G (6' drop) and all-weather IP65 dust and water-resistant design.

- **Longer Battery Life**
  The T800 is equipped with a user-replaceable battery delivering 8 hours of uninterrupted work.

- **Built to Survive**
  Only Getac manufactures rugged tablets down to the chassis. The T800 was engineered to protect the tablet against drops, shocks, spills, vibration, dust, liquid and more. The T800 has been independently tested and certified to MIL-STD 810G and IP65 standards.

- **The Right Tablet for the Mobile Workforce**
  T800 rugged tablet. Built for today’s mobile workforce, the new tablet features an 8.1 inch display, the latest wireless technology and unique SnapBack add-ons and runs Windows 10 Pro.
The T800 was designed to be the perfect combination of a compact rugged tablet without sacrificing screen size.

**Specifications**

**Power**
- AC Adapter (65W, 100-240VAC, 50/60Hz)
- Li-Ion battery (7.4V, 4200mAh) (up to 8 hours’ battery life)
- The T800 rugged tablet boasts up to 8 hours of battery life on a single charge. Additionally, you can swap out a discharged battery with a charged battery while plugged in. This allows you to keep working without ever shutting down your app or the Windows OS.

**Dimensions & Weight**
- 8.9" x 5.9" x 0.9" (227 x 151 x 24mm)
- 2.1lbs (0.95kg)

**Rugged Features**
- MIL-STD 810G certified
- IP65 certified
- Vibration, 6 foot drop, temperature & humidity resistant

**Environmental Specifications**
- Operating Temp: -5.8°F to 122°F / -21°C to 50°C
- Storage Temp: -40°F to 160°F / -40°C to 71°C
- Humidity: 95% RH, non-condensing

<table>
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<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
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<tr>
<td>X001FA</td>
<td>Hand Held Barcode Terminal (HHT-F) Integrated Imager, Full Alphanumeric Keypad Capability and Small Display</td>
<td>TD9PK2DA4DXF</td>
<td>GETAC: T800G2, TAA, HAZ LOC, Class 1, Division 2, Groups A, B, C, and D, Intel Atom Processor x7-Z8750, 1.6GHz, 8.1&quot; (No Webcam), Windows 10 Professional x64, 4GB RAM, 128GB eMMC, Sunlight Readable (LCD+Touchscreen), Multi Language+US Power, (No Camera), 802.11 Wireless,</td>
<td>1</td>
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<tr>
<td>Code</td>
<td>Description</td>
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<td>Quantity</td>
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<tr>
<td>GORSX2</td>
<td>Bluetooth, Honeywell 5080 Barcode Reader option, TPM 2.0, Low Temp -21°C, IP65, 3 Year Warranty</td>
<td>GETAC: SNAPBACK-SMARTCARD AND RFID READER (USING RFID/NFC)</td>
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<tr>
<td>ST3300GU3B</td>
<td>StarTech 3 port USB hub w/Ethernet NIC</td>
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<td>ICUSB2321X</td>
<td>StarTech USB-to-serial dongle</td>
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<td>X001FB</td>
<td>HHT-F warranty upgrade to add 2 years (total 5-year warranty)</td>
<td>GE-SVSREXT2Y</td>
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<tr>
<td>X001FC</td>
<td>HHT-F warranty upgrade to add 4 years (total 7-year warranty)</td>
<td>GE-SVSREXT4Y</td>
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<td>X001FD</td>
<td>HHT-F Holster and Shoulder Strap</td>
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<td>X001FE</td>
<td>HHT-F Detachable Handle and Trigger</td>
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<td>N/A</td>
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<td>X001FF</td>
<td>HHT-F Rechargeable Battery (1EA)</td>
<td>GBM4X1</td>
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<td>X001FG</td>
<td>HHT-F Multiple (2) Battery Charger</td>
<td>GCMCU5</td>
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<td>X001FH</td>
<td>HHT-F Single Battery Charger / Docking Station</td>
<td>GDOFUA</td>
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4.1.3 CLIN X001GA - HAND HELD TERMINAL-G (HHT-G) INTEGRATED IMAGER, FULL ALPHANUMERIC KEYPAD CAPABILITY, SMALL DISPLAY, AND NI CERTIFIED

For the HHT-G Lowry is offering the Juniper Mesa II Tablet. Work in hazardous locations with confidence using the Mesa 2 Hazloc, certified Class I, II, & III, Division 2 to perform safely where explosive gases, liquids, vapors, dusts, or fibers and flyings may be present. So, no matter where you’re collecting data, you can trust that the Mesa 2 Hazloc will help you get the job done safely and efficiently. Running Windows 10, Mesa 2 Hazloc not only provides unwavering safety in potentially-explosive environments, but also makes your job easier by eliminating the obstacles that slow you down. Whether you’re headed to a petrochemical plant, gas and oil pipelines, a refinery, or another potentially explosive environment, Mesa 2 Hazloc will help you get the job done fast, while keeping you and your data safe.

Specifications:

**PROCESSOR**
- Quad-core Intel® Atom™ Z3745 processor

**OPERATING SYSTEM AND SOFTWARE**
- Microsoft® Windows 10
- Multiple languages supported (English, French, Spanish, German, Portuguese)
MEMORY AND DATA STORAGE
- 4 GB RAM (LPDDR3)
- 64 GB or 128 GB flash storage options
- User-accessible MicroSDXC card slot

GRAPHICS
- Intel® HD Graphics

DISPLAY
- Active viewing area: 7” (178 mm)
- Resolution: WXGA (1280 x 800)
- High-visibility backlit LCD for best-in-class sunlight view-ability
- Portrait or landscape orientation with automatic screen rotation

TOUCH SCREEN
- Projected capacitive multi-touch interface for use with gloves, small tip stylus, and in wet conditions
- Optically bonded for increased visibility and strength
- Chemically-strengthened Dragontrail™ High Ion-Exchange (HIE™) cover glass for excellent impact and scratch resistance

PORTS
- USB 3.0 x 1
- 3.5 mm audio jack
- 12 VDC power input jack
- Docking port connections (Pwr, USB 2.0, & HDMI)
- Loud output speaker for noisy environments
- Dual digital microphone input for improved clarity

BATTERY
- Removable Li-Ion battery, 39 Whr
- Operates 8–10 hours on one charge
- Removable battery, easily changeable in field
- Optimized for strong performance in cold temperatures
- Excellent lifecycle performance
- Optional internal 19-Whr battery provides hot-swap capability and an additional 4–5 hours runtime

PHYSICAL
- Size: 5.40” w x 8.48” x 1.36” d (137 x 215 x 35 mm)
- Weight: 1.5–2 lbs (680–907 g) depending on battery configuration
- Durable, chemical- and shock-resistant design
- Easy-to-grip, impact-absorbing, overmolded bumpers
- Lightweight and ergonomic design

**JUNIPER RUGGED™**
- IP68 waterproof and dustproof
- Operating temperature: -4 F to 122 F (-20 C to 50 C)
- Storage temperature: -22 F to 158 F (-30 C to 70 C)
- Shockproof: multiple drops from 4' (1.2 –1.5 m) onto concrete
- Designed for MIL-STD-810G test procedures:
- WIRELESS CONNECTIVITY OPTIONS
- Long-range Bluetooth® Smart Ready Smart
- Ready wireless technology, v4.0 +EDR, Class 1.5,

**BLE support**
- Wi-Fi® 802.11 a/b/g/n, 2.4 GHz and 5 GHz

<table>
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<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
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<tr>
<td>X001GA</td>
<td>Hand Held Terminal-G (HHT-G) Integrated Imager, Full Alphanumeric Keypad Capability, Small display and NI Certified</td>
<td>MS2-218-HL</td>
<td>Mesa 2 - Hot Swappable Battery, 128GB Memory, Integrated 1D/2D Barcode Scanner, Non-Incendive, C I, II, III Div. 2 Hazloc, 3-Year PLATINUM Complete Care Service Plan and Warranty</td>
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<td>UU8153</td>
<td>V7 VAMSDX64GUHS1R-2N - Flash memory card - 64 GB - microSDXC</td>
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<td>X001GB</td>
<td>HHT-G warranty upgrade to add 2 years (total 5-year warranty)</td>
<td>26422</td>
<td>Mesa 2 HAZLOC Platinum Complete Care, 1 Year</td>
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<td>X001GC</td>
<td>HHT-G warranty upgrade to add 4 years (total 7-year warranty)</td>
<td>AES - 7yr MS2 PCCSP</td>
<td>Mesa 2 HAZLOC Extended Warranty - Years 4, 5, 6, &amp; 7</td>
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<td>X001GD</td>
<td>HHT-G Holster and Shoulder Strap</td>
<td>12867</td>
<td>Soft padded top load case, with Velcro flap closure, front cable storage pocket, belt loop and adjustable shoulder strap. High visibility safety orange.</td>
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<td>X001GE</td>
<td>HHT-G Detachable Handle and Trigger</td>
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<td>X001GF</td>
<td>HHT-G Rechargeable Battery (1 EA)</td>
<td>25260</td>
<td>Mesa 2 Removable Li-ion Battery</td>
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<td>X001GG</td>
<td>HHT-G Single Battery Charger</td>
<td>25679</td>
<td>Removable Battery Charger for Mesa 2 removable battery</td>
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<td></td>
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<td>24076</td>
<td>20W Universal AC Power Supply Kit 100-240VAC power supply, 12VDC, 1.67A output, 6 ft. with International Plug Kit (US, EU, UK, and AU/NZ plugs)</td>
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<tr>
<td></td>
<td></td>
<td>27496</td>
<td>3-year Platinum Complete Care Accessory Adder Service Plan</td>
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<tr>
<td>X001GH</td>
<td>HHT-G Single Battery Charger / Docking Station</td>
<td>26362</td>
<td>Desktop Ethernet docking station for Mesa 2 Rugged Tablet. Mesa 2 is secured to dock in landscape orientation. Includes: 12VDC power port, three (3) USB ports (Host), RJ-45 ethernet 10/100T port, (1) HDMI port. Dock is designed to be used with Mesa 2 Wall Charger. Ports require external power</td>
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<tr>
<td>26371</td>
<td>45W Universal AC Power Supply Kit 100-240VAC power supply, 12VDC, 3.75A output. For use with M2 dock to reduce charge time when multiple devices are connected.</td>
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<tr>
<td>27496</td>
<td>3-year Platinum Complete Care Accessory Adder Service Plan</td>
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<tr>
<td>Lowry-USBHost</td>
<td>USB Cable for Host Connection, 6 Ft.</td>
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</tr>
<tr>
<td>X001GJ</td>
<td>HHT-G one pack tethered of (1) tethered replacement styli</td>
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<td>X001GK</td>
<td>HHT-G Transparent screen protector</td>
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<tr>
<td>X001GM</td>
<td>HHT-G Portable printer interface connection and cable</td>
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<td>X001GN</td>
<td>HHT-G Disable all wireless communications (create batch HHT)</td>
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<td>X001GP</td>
<td>HHT-G Detachable CAC Reader</td>
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</table>

**NOTE:** This CLIN must be specified at time of and along with purchase of CLIN 0001GA.
4.2 Bar Code Scanning/Imaging Devices

4.2.1 CLIN X003AA - IMAGER FOR PC INPUT – GENERAL BAR CODE (TETHERED)

For the tethered Imager for PC input Lowry is offering the Honeywell model SR61 HP. The Intermec by Honeywell SR61 handheld scanner family is built for rugged applications in warehouse, distribution and industrial manufacturing, and also supports proof of delivery and point of service applications. With a high impact housing that is virtually impenetrable and a solid-state design, the SR61 exceeds industrial and military standards and can be counted on to perform well in harsh environments where dust, moisture or extreme temperatures are constants and operational uptime is critical.

With the Intermec by Honeywell SR61 high performance 2D handheld bar code scanner, you benefit from unmatched imaging performance—all inside a proven, rugged form factor.

- **Fast** - cutting-edge imagers scan 1D and 2D bar codes with unmatched motion tolerance and fast time-to-read, while also supporting image and real-time video capture
• **Rugged** - designed to withstand 26 drops to concrete or steel from 6.5 feet, hot and cold temperature extremes, constant forklift vibration and windblown dust and rain

• **Easy to use** - highly visible aimer and targeting reticles result in almost effortless scanning

• **Ergonomic** - comfort grip and omnidirectional scanning capability result in less worker fatigue over a full shift

• **Compatible** - full speed USB 2.0 wired or Bluetooth® wireless interface to host system

• **Proven** - part of a complete line-up of proven SR61 scanners

Integrated high performance imaging technology allows for rapid scanning of virtually all 1D and 2D bar code symbologies. With unmatched motion tolerance (up to 500 in/sec) and support for omni-directional scanning, the SR61HP delivers incredible responsiveness at any scan angle. Advanced capabilities—such as data parsing, multi-code reading, and image/video capture—are built-in and make SR61HP even more versatile.

**Specifications**

**Environment**

**Ambient Light:** Works in any lighting conditions from 0 to 100,000 lux  
**Drop Survival:** 26 drops onto concrete or steel surface from a height of 1.98 meters (6.5 feet)  
**Humidity:** 0 to 95% RH, Non-condensing  
**Operating Temperature:** -20°C to +50°C (-4°F to +122°F)  
**Storage Temperature:** -40°C to +70°C (-40°F to +158°F)  
**Dirt and Dust Resistance:** IP54  
**Vibration and Shock Protection:** SAE Specification J1399 Class 3 (off road vehicle)

**Physical Characteristics**

**Length:** Tethered: 19.4 cm (7.6 in)  
**Width:** Tethered: 7.2 cm (2.8 in)  
**Height:** Tethered: 13.1 cm (5.2 in)  
**Weight:** Tethered: 320 gm (11.2 oz)

**Power**

Power Requirements: Tethered: 5V DC, 1.7A

**Supported Bar Code Symbologies**

**1D & Stacked:** Codabar; Codablock; Code 11; Code 128 (GS1-128); Code 39; Code 93/93i; EAN/UPC; GS1 DataBar Expanded; GS1 DataBar Limited; GS1 DataBar Omni-Directional; GS1 DataBar Stacked; Interleaved 2 of 5; Macro PDF; Micro PDF; Matrix 2 of 5; MSI; PDF417; Plessey; Standard 2 of 5; Telepen; TLC39  
**2D:** Aztec; DataMatrix; GS1 Composite; Maxicode; QR Code
For the Bluetooth Imager for PC Input Lowry is offering the Honeywell Granit. The Granit™ 1911i wireless industrial-grade area-imaging scanner is designed to withstand the varied demands that exist in harsh working environments. Featuring a custom-built housing that is redefining the standard for scanner reliability, the IP65 rated Granit 1911i is built to survive 5,000 3.3´ (1 m) tumbles and 50 drops to concrete from 6.5´ (2 m) at -4°F (-20°C). As a result, businesses can expect to experience minimal device downtime and a lower overall cost of ownership.

Granit 1911i Wireless Industrial-Grade Area-Imaging Scanner Features and Benefits

- **Class-Leading Durability:** The custom-built IP65-rated housing is able to withstand 5,000 3.3´ (1 m) tumbles and survive 50 drops from 6.5´ (2 m) at -4°F (-20°C) reducing service costs and increasing device uptime
- **Wireless Connectivity:** Bluetooth® Class 1, v2.1 radio enables movement up to 300´ (100 m) from base, and reduces interference with other wireless systems. Up to 7 imagers can communicate with a single base, reducing the total cost of ownership
- **TotalFreedom™ 2.0:** The second-generation of Honeywell’s area-imaging development platform enables the loading and linking of multiple applications to enhance image decoding, data formatting and image processing—eliminating the need for host system modifications
- **Long-Lasting Lithium-Ion Battery:** Powers up to 50,000 scans per full charge and is removable without tools ensuring maximum uptime for operations running multiple shifts
- **Extended Linear Depth of Field:** Scans out-of-reach items with ease and allows users to scan 20 mil linear codes out to 29.5” (75 cm) without sacrificing performance on 2D codes
- **Remote MasterMind™ Scanning Management Software:** Quick and convenient solution for IT administrators seeking to manage the scanners within their network from a single remote location

### CLIN / SLIN | Product / Service | Model / Part Number | Description                                                                                                                                                     | Quantity |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X003AA</td>
<td>Imager for PC Input - General Bar Code (Tethered)</td>
<td>SR61TGHP-001</td>
<td>SR61T HP SCANNER (EA30), for AIT includes quick reference guide</td>
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<td></td>
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<td>SVCSR61-5FC3</td>
<td>SR61, Full Comprehensive, 5-day turn, 3 year DayOne</td>
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<tr>
<td></td>
<td></td>
<td>236-219-001</td>
<td>CBL, USB, PWD, Coiled 3ft to 8ft</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>203-878-001</td>
<td>Desktop Stand SR61T</td>
<td>1</td>
</tr>
</tbody>
</table>
Specifications

Wireless
- Radio/Range 2.4 to 2.5 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v2.1: Class 1: 100m (300’) line of sight
- Data Rate (Transmission Rate) Up to 1 Mbits/S
- Battery 2000 mAh Li-ion minimum
- Number of Scans Up to 50,000 scans per charge
- Expected Hours of Operation 14 hours
- Expected Charge Time* 4.5 hours

Mechanical/Electrical

<table>
<thead>
<tr>
<th></th>
<th>Scanner</th>
<th>Charger/Communication Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (LxWxH)</td>
<td>133 mm x 75 mm x 195 mm (5.2” x 2.9” x 7.6”)</td>
<td>250 mm x 103 mm x 65 mm (9.9” x 4.1” x 2.6”)</td>
</tr>
<tr>
<td>Weight</td>
<td>380 g (13.4 oz)</td>
<td>290 g (10.2 oz)</td>
</tr>
<tr>
<td>Operating Power (Charging)</td>
<td>N/A</td>
<td>5 W (1A @ 5 V)</td>
</tr>
<tr>
<td>Non-Charging Power</td>
<td>N/A</td>
<td>0.6 W (0.12A @ 5 V)</td>
</tr>
<tr>
<td>Host System Interfaces</td>
<td>N/A</td>
<td>USB, Keyboard Wedge, RS232 TTL</td>
</tr>
</tbody>
</table>

Environmental

<table>
<thead>
<tr>
<th></th>
<th>Scanner</th>
<th>Charger/Communication Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-20°C to 50°C (-4°F to 122°F)</td>
<td>-20°C to 50°C (-4°F to 122°F)*</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C to 70°C (-40°F to 158°F)</td>
<td>-40°C to 70°C (-40°F to 158°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>Up to 95% relative humidity, non-condensing</td>
<td>Up to 95% relative humidity, non-condensing</td>
</tr>
<tr>
<td>Drop</td>
<td>Designed to withstand 50 2 m (6.5’) drops to concrete at -20°C</td>
<td>Designed to withstand 50 1.2 m (4’) drops to concrete at -20°C</td>
</tr>
<tr>
<td>Tumble</td>
<td>5,000 1m (40&quot;) tumbles</td>
<td>5,000 1m (40&quot;) tumbles</td>
</tr>
<tr>
<td>Environmental Sealing</td>
<td>IP65</td>
<td>IP51</td>
</tr>
<tr>
<td>Light Levels</td>
<td>0 to 100,000 lux (9,290 foot-candles)</td>
<td>N/A</td>
</tr>
<tr>
<td>ESD</td>
<td>±20Kv air discharge, ±8kV contact discharge</td>
<td>±20Kv air discharge, ±8kV contact discharge</td>
</tr>
</tbody>
</table>

Scan Performance

Scan Pattern: Area Imager (838 x 640 pixel array)

Motion Tolerance: Up to 610 cm/s (240 in/s) at 16.5 cm (6.5”) and 381 cm/s (150 in/s) at 25 cm (10.0”) for 13 mil UPC

Scan Angle: ER Focus: Horizontal: 31.6°; Vertical: 24.4°
Symbol Contrast: 20% minimum reflectance difference

Pitch, Skew: 45°, 65°

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X003AB</td>
<td>Imager for PC Input - General Bar Code (Bluetooth)</td>
<td>1911iER-3USB-5-G</td>
<td>Non-standard USB kit: 1D, PDF-417, 2D, ER focus, red scanner, (1911iER-3), charge &amp; communication base, RS232/USB/KBW, (CCB02-100BT-07N), USB Type A 3m straight cable (CBL-500-300-S00), with vibrator</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SVC1911I-5FC3</td>
<td>1911i &amp; base, Full Comprehensive, 5-day turn, 3 year DayOne</td>
<td>1</td>
</tr>
</tbody>
</table>

4.2.3 CLIN X003AC - IMAGER FOR PC INPUT – IUID LABEL MARKING.

For the Imager for scanning IUID Label Markings Lowry is offering the Honeywell model SR61 HP. The Intermec by Honeywell SR61 handheld scanner family is built for rugged applications in warehouse, distribution and industrial manufacturing, and also supports proof of delivery and point of service applications. With a high impact housing that is virtually impenetrable and a solid-state design, the SR61 exceeds industrial and military standards and can be counted on to perform well in harsh environments where dust, moisture or extreme temperatures are constants and operational uptime is critical.

With the Intermec by Honeywell SR61 high performance 2D handheld bar code scanner, you benefit from unmatched imaging performance—all inside a proven, rugged form factor.

- **Fast** - cutting-edge imagers scan 1D and 2D bar codes with unmatched motion tolerance and fast time-to-read, while also supporting image and real-time video capture
- **Rugged** - designed to withstand 26 drops to concrete or steel from 6.5 feet, hot and cold temperature extremes, constant forklift vibration and windblown dust and rain
- **Easy to use** - highly visible aimer and targeting reticles result in almost effortless scanning
- **Ergonomic** - comfort grip and omnidirectional scanning capability result in less worker fatigue over a full shift
- **Compatible** - full speed USB 2.0 wired or Bluetooth® wireless interface to host system
- **Proven** - part of a complete line-up of proven SR61 scanners
Integrated high performance imaging technology allows for rapid scanning of virtually all 1D and 2D barcode symbologies. With unmatched motion tolerance (up to 500 in/sec) and support for omni-directional scanning, the SR61HP delivers incredible responsiveness at any scan angle. Advanced capabilities—such as data parsing, multi-code reading, and image/video capture—are built-in and make SR61HP even more versatile.

**Specifications**

**Environment**

**Ambient Light:** Works in any lighting conditions from 0 to 100,000 lux  
**Drop Survival:** 26 drops onto concrete or steel surface from a height of 1.98 meters (6.5 feet)  
**Humidity:** 0 to 95% RH, Non-condensing  
**Operating Temperature:** -20°C to +50°C (-4°F to +122°F)  
**Storage Temperature:** -40°C to +70°C (-40°F to +158°F)  
**Dirt and Dust Resistance:** IP54  
**Vibration and Shock Protection:** SAE Specification J1399 Class 3 (off road vehicle)

**Physical Characteristics**

**Length:** Tethered: 19.4 cm (7.6 in)  
**Width:** Tethered: 7.2 cm (2.8 in)  
**Height:** Tethered: 13.1 cm (5.2 in)  
**Weight:** Tethered: 320 gm (11.2 oz)

**Power**

Power Requirements: Tethered: 5V DC, 1.7A

**Supported Bar Code Symbologies**

**1D & Stacked:** Codabar; Codablock; Code 11; Code 128 (GS1-128); Code 39; Code 93/93i; EAN/UPC; GS1 DataBar Expanded; GS1 DataBar Limited; GS1 DataBar Omni-Directional; GS1 DataBar Stacked; Interleaved 2 of 5; Macro PDF; Micro PDF; Matrix 2 of 5; MSI; PDF417; Plessey; Standard 2 of 5; Telepen; TLC39  
**2D:** Aztec; DataMatrix; GS1 Composite; Maxicode; QR Code

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X003AC</td>
<td>Imager for PC Input - IUID Label Markings</td>
<td>SR61TGHP-001</td>
<td>SR61T HP SCANNER (EA30), for AIT includes Ull parsing scripts, and quick reference guide</td>
<td>1</td>
</tr>
</tbody>
</table>
4.2.4 CLIN X003AD - IMAGER FOR PC INPUT – IUID DIRECT PART MARKING.

For the imager for scanning IUID Direct Part Marking Lowry is offering the Honeywell SR-61HD/DPM. When it comes to tracking your most valuable assets through their lifecycle, direct part marking (DPM) offers permanence no other label format can match. The SR61HD DPM scanner features optimized optics to reliably scan DPM marks that are dot peened, etched or cast on a variety of substrates.

- Fast - cutting-edge imager scans 1D and 2D bar codes with unmatched motion tolerance and fast time-to-read, while also supporting image and real-time video capture
- Optimized - customized imaging engine scans dot peened, chemical- or laser-etched direct part marks on a variety of substrates—and can even read small, reflective and low-contrast marks
- Rugged - designed to withstand drops from 6.5 feet, hot and cold temperature extremes, constant forklift vibration and windblown dust and rain
- Easy to use - highly visible aimer makes spotting bar codes fast and efficient
- Ergonomic - comfort grip and omnidirectional scanning capability improve operator efficiency
- Proven - part of a complete line-up of proven SR61 scanners

A customized variant of the SR61 family, the SR61HD DPM capable of scanning high density bar codes and direct part marks commonly used to track assets in defense, aerospace, automotive, pharmaceutical, and telecommunications industries. This scanner is built on a common, mature hardware platform, representing a much more cost-effective solution for scanning direct part marks when compared to specialized, purpose-built devices.

With a customized imager, the SR61HD DPM can reliably scan direct part marks, while still providing snappy performance on standard bar codes. The high-performance imager is capable of scanning very fine marks (as small as 3 mils for 1D codes and 5 mils for DataMatrix codes), features unmatched motion tolerance (up to 500 in/sec) for incredible responsiveness, and includes advanced built-in capabilities that increase scanner versatility: data parsing, multi-code reading, and image/video capture.

Like all SR61 scanners, a high impact housing and a solid-state design exceeds industrial and military standards and can be counted on to perform well in harsh environments where dust, moisture or extreme temperatures are the norm.
Specifications

Environment

Ambient Light: Works in any lighting conditions from 0 to 100,000 lux
Drop Survival: 26 drops onto concrete or steel surface from a height of 1.98 meters (6.5 feet)
Humidity: 0 to 95% RH, Non-condensing
Operating Temperature: -20°C to +50°C (-4°F to +122°F)
Storage Temperature: -40°C to +70°C (-40°F to +158°F)
Dirt and Dust Resistance: IP54
Vibration and Shock Protection: SAE Specification J1399 Class 3 (off road vehicle)

Physical Characteristics

Length: Tethered: 19.4 cm (7.6 in)
Width: Tethered: 7.2 cm (2.8 in)
Height: Tethered: 13.1 cm (5.2 in)
Weight: Tethered: 320 gm (11.2 oz)

Power

Power Requirements: Tethered: 5V DC, 1.7A

Supported Bar Code Symbologies

1D & Stacked: Codabar; Codablock; Code 11; Code 128 (GS1-128); Code 39; Code 93/93i; EAN/UPC; GS1 DataBar Expanded; GS1 DataBar Limited; GS1 DataBar Omni-Directional; GS1 DataBar Stacked; Interleaved 2 of 5; Macro PDF; Micro PDF; Matrix 2 of 5; MSI; PDF417; Plessey; Standard 2 of 5; Telepen; TLC39
2D: Aztec; DataMatrix; GS1 Composite; Maxicode; QR Code

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>X003AD</td>
<td>Imager for PC Input - IUID Direct Part Markings</td>
<td>SR61TDPM-0G0</td>
<td>SR61THD DPM Indust High Density Area Imager includes Ull parsing scripts</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SVCSR61-5FC3</td>
<td>SR61, Full Comprehensive, 5-day turn, 3 year DayOne</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>236-219-001</td>
<td>CBL, USB, PWD, Coiled 3ft to 8ft</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>203-878-001</td>
<td>Desktop Stand SR61T</td>
<td>1</td>
</tr>
</tbody>
</table>
4.3 Bar Code Label Printers

4.3.1 CLIN X005AA - Portable Wearable Bar Code Label Printer

Lowry is offering products from Zebra Technologies for the Portable Bar Code Label Printers.

Zebra Technologies is a leading global provider of high-growth specialty digital printing and automatic identification solutions. Businesses, government, and other organizations use our on-demand thermal bar code label and receipt printers and supplies, plastic card printers, radio frequency identification (RFID) solutions and real time locating systems (RTLS) to deliver better customer service, increase productivity, and strengthen security.

Zebra’s P4T is the first-ever mobile thermal transfer printer with RFID printing/encoding capability. The easy-to-carry P4T printer enables printing long-life bar code labels and documents up to 4 inches wide where and when they are needed – resulting in enhanced data and asset-tracking accuracy and improved workforce efficiency. Uniquely flexible, the P4T offers the advantages of thermal transfer image durability (bar codes/text/graphics), optional RFID, advanced wireless connectivity options and included direct thermal mode in a versatile variety of combinations.

Specific Hardware Benefits: Thermal Transfer Longevity - when paired with tested genuine Zebra™ thermal transfer supplies, the P4T printer produces 2- to 4-inch-wide labels or other documents that withstand harsh environments and offer archival longevity ranging from 18 months to up to 10 years in outdoor applications.

The P4T has the capability to print in both direct thermal and thermal transfer modes on a wide array of paper or synthetic materials. Increased memory on the P4T allows for storage of label templates/forms which can be recalled to print as needed. The P4T has a maximum print width is 4.09” and prints text, graphics and barcodes at a 203 DPI resolution. The printer supports all the required bar code symbologies and can print in both ladder and picket fence orientations. Zebra also provides Microsoft certified 32/64 bit drivers that allow you to print from a variety of applications.

Battery Management: Smart operation – Battery monitoring

Suitability of Equipment: The Zebra PT4 is proven to be a ruggedized wearable device:

- Print Resolution: 203 dpi/8 dots per mm
- Maximum Print Width: 4.09”/104 mm
- Operating Temp: -4° F/-20° C
- Storage Temp: -22° F/-30°
- Environmental Protection: IP14
- Drop Survival: Tolerant of multiple drops up to 5' to concrete
- Humidity: 10% to condensing

Ergonomics: Fast, easy media and ribbon loading, Comfortable to wear and hold, Weight 2.9 lbs/1.32 kg with ribbon and battery, Large LCD display.

Ease of Use: Auto-adjusting ribbon cartridge
Printer Operation:

- 32 bit processor
- 8 MB Flash/16 MB SDRAM memory
- Large LCD that is daylight readable and low level illumination for low-light conditions
- Open access design for easy media and ribbon loading
- Sensor detects gap, black bar, media, media width, door ajar and ribbon
- Thermal transfer programmable print speed: up to 1.5 ips
- Direct thermal programmable print speed: up to 3.0 ips
- Zebra Universal Printer Driver - for Microsoft

Specifications

Resolution: 203 dpi (8 dots/mm)

Memory

- 8 MB Flash
- 16 MB RAM

Print width

- 4.09" (104 mm)

Print length

- Maximum Print Length - at least 36" (914 mm) - actual length depends upon total memory usage
- Minimum Label Length - 1.25" (31.75 mm)

Print speed

- Direct thermal 3" (76 mm)/sec
- Thermal transfer 1.5" (38 mm)/sec

Media Characteristics

- Maximum label and liner width: 4.12" (104.6 mm)
- Minimum label and liner width: 2.00" (50.8 mm)
- Media width: 2.00" (50.8 mm) x 4.09" (103.9 mm)
- Maximum roll diameter: 2.60" (66.0 mm)
- Core diameter: .75" (19.0 mm)

Media Thickness:

- Receipt paper minimum 0.0032" (0.08 mm)
- Labels maximum 0.0082" (0.21 mm)
- Tag maximum 0.0065" (0.16 mm)
- Media types: fanfold, receipt, tag, tag stock, black bar, gap, continuous, continuous receipt
Ribbon Characteristics
- Standard length: 1180.8" (29992.3 mm)
- Ratio: 2 rolls of media to 1 roll of ribbon
- Ribbon width: 4.33"

Operating Characteristics
- Operating temperature
  - Thermal Transfer: 32° F (0° C) to 113° F (45° C)
  - Direct Thermal: -4° F (-20° C) to 122° F (50° C)
- Operating humidity: 10% to 90%
- Storage humidity: 10% to 90%
- Rechargeable Li-Ion battery
  - 4200 mAh
  - 7.4V

Agency approvals
- EMC: FCC Part 15 and EN55022 Class B limits;
- Radio approval for BT, 802.11b/g & RFID: FCC, Industry Canada
- Safety: IEC 60950, NRTL marking for US & Canada
- EU: EMC, LVD, R&TTE Directives

Physical Characteristics
- Width: 7" (177.8 mm)
- Height: 8.6" (218.4 mm)
- Depth: 3" (76.2 mm)
- Weight: 2.9 lbs (1.32 kg)
- Shipping weight: 4.1 lbs (1.9 kg)

<table>
<thead>
<tr>
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<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tr>
<td>X005AA</td>
<td>Portable/Wearable Bar Code Label Printer</td>
<td>P4D-0U100000-G1</td>
<td>P4T Printer</td>
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<td></td>
<td>AK18913-002</td>
<td>AC adapter</td>
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<tr>
<td></td>
<td></td>
<td>AK18913-001</td>
<td>battery</td>
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<tr>
<td></td>
<td></td>
<td>AK18666-4</td>
<td>USB cable</td>
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<tr>
<td></td>
<td></td>
<td>AK17463-008</td>
<td>ACC Serial, RJ-45, Interlocking PC Cable</td>
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<tr>
<td></td>
<td></td>
<td>ZA0-P4T1-200</td>
<td>3yr warranty</td>
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</table>
4.3.2 Stationary Bar Code Label Printer

4.3.2.a CLIN X005BA - Stationary Bar Code Label Printer

For the Stationary Bar Code Label Printer Lowry is offering the Honeywell PD43 Printer. The PD43 family of light industrial thermal printers incorporate the latest printing innovations into a compact and affordable package. Ideal for tight spaces, shallow countertops, and pull-out cabinets, the PD series was designed to deliver no-compromise printing performance in the smallest possible footprint. Suited for the distribution center and warehouse, the PD43 upholds the PD series’ long tradition of reliable performance. An all-metal chassis, strong cast-aluminum print mechanism, and tool-free printhead and roller replacement help minimize downtime and maintenance needs. The PD43 can support a wide range of media—including ink-in and ink-out ribbons with half-inch or one-inch core sizes—making it possible to maximize time between media resupply. Fast time-to-label and print speeds up to 200 mm/s (8 ips) ensure PD43 can scale with the changing needs of dynamic operations.

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X005BA</td>
<td>Stationary Bar Code Label Printer</td>
<td>PD43AG3100010201</td>
<td>PD43, Gov, Ethernet, TTR, 203 DPI, US Cord</td>
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</tbody>
</table>
4.3.2.b CLIN X005BB - Stationary Bar Code Label Printer with Installed Take-Up Reel

For the Stationary Bar Code Label Printer with Installed Take-Up Reel Lowry is offering the Honeywell PM43 Printer. The PM43 is a third-generation Honeywell industrial printer designed to maximize your uptime. Count on the PM43 to deliver quick deployment, the fastest print speed in its class, and proven reliability. PM43 mid-range industrial printer is ideal for a wide range of applications within the distribution center / warehouse and manufacturing environments. The PM43 is:

  - "No-touch" configuration capabilities
- **Reliable** – Maximizes Uptime. Built from 40 Years of Printing Innovation.
  - Third-Generation Platform.
  - Precision Print, for consistent bar-code printing with pinpoint accuracy
  - Multilingual webpage loaded on every printer ensures easy device monitoring
  - Strong metal structure with metal door that can be locked for media protection
- **Perform** – Increase Productivity and Process Efficiencies. Simple to Use.
  - Fastest throughput in its class
  - Powerful programmable capability, with ability to directly connect peripherals
  - Most connectivity options of any printer on the market

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>X005BB</td>
<td>Stationary Bar Code Label Printer, with Installed Take-Up Reel</td>
<td>PM43G11010050201</td>
<td>“H” FT, ROW, Ethernet, No I/O 1, No I/O 2, Full Re-winder, Hanger, TT203DPI, US Power Cord</td>
<td>1</td>
</tr>
</tbody>
</table>
The following separately orderable components can be used with CLIN X005BA or CLIN X005BB.

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>X005BC</td>
<td>Roll of 4&quot; by 6&quot; Synthetic Label Stock (8 inch diameter roll) for Stationary BC Label Printer (1 roll)</td>
<td>E22103</td>
<td>BL 4.000X 6.000 L3501054P (1 roll)</td>
<td>1</td>
</tr>
<tr>
<td>X005BD</td>
<td>Roll of 4&quot; by 3&quot; Synthetic Label Stock (8 inch diameter roll) for Stationary BC Label Printer (1 roll)</td>
<td>E23641</td>
<td>BL 4.000X 3.000 L3501054P (1 roll)</td>
<td>1</td>
</tr>
<tr>
<td>X005BE</td>
<td>Resin Ribbon for 4&quot; Width Labels for Stationary BC Label Printer (1 roll)</td>
<td>13574106</td>
<td>BR 4.1 X 6000&quot; TMX3201 RS-003 (1 roll)</td>
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</tr>
</tbody>
</table>

4.4 IUID Marking Equipment and Verifiers
4.4.1 CLIN X007AA - LASER MARKING EQUIPMENT
We are pleased to offer the following system for laser marking which includes a 40 Watt Epilog Mini 24 CO2 laser marking system kit using BarTender label creation software to meet the requirements of the AIT-V PWS. The Epilog CO2 laser will produce IUID markings on temperature resistant laser etchable layered polyacrylic adhesive film and will cut the film to the actual label size as specified in the PWS.

The Epilog Mini 24 CO2 laser marking system exceeds the PWS requirements by being able to also mark standard anodized aluminum material with the added capability to mark on bare metal parts or nameplates using the CerMark/TherMark laser marking material coating. The Epilog laser can also cut
stencils from oil board material. These added marking capabilities add value to the government in giving
a site more marking capabilities to meet future IUID and general purpose marking requirements.

The Epilog Mini 24 CO2 laser marking system exceeds the PWS requirements with its standard 12” x 24”
marking area. The PWS specifies 5” x 12”. Having a larger laser marking area adds value to the
government in giving the site more capabilities to mark larger label sheets and mark directly on larger
parts if needed in any future applications. Epilog incorporates an auto-switching power supply that
accommodates 110 to 240 volts, 50 or 60 Hz, single phase, 15 amp AC giving the government more
flexibility on power options in the future if needed.

One of the key benefits to the government in our offering is the flexible networking capability of the
Epilog Laser to be installed directly on a government network through the Epilog standard 10 Base-T
Ethernet or USB Connection that is compatible with Windows® XP/Vista/7/8. The Epilog print driver is
approved for use on military networks and Epilog does not require that a proprietary software program
be installed on a PC to run the laser like most laser marking systems are required to have.

The Epilog laser can be configured to print just like a standard office printer and it can print from
Microsoft Word, CorelDraw, BarTender, etc. For IUID label and part marking we are offering BarTender
label creation software. BarTender is approved for use on Army, Navy and Air Force networks. The
Army has a CoN (Certificate of Networthiness) for BarTender software. The systems we provide will
have the latest revision of BarTender that has a current CoN. We are authorized by Seagull Scientific
(BarTender developer) to provide and support older versions of BarTender software to our customers.

BarTender is a very flexible software package that can interface with a barcode scan input or user
keyboard for data input. BarTender also easily interfaces to Excel, Access, SAP, Oracle and other data
bases for variable data input. BarTender interfaces with the Army developed MCDS IUID Data
Management software being used at many Army sites. ID Integration has interfaced the Epilog laser
marking systems with BarTender to MCDS at many Army sites and this is a benefit to the Army to utilize
ID Integration’s experience for future integration to MCDS

ID Integration is supplying its own custom BarTender IUID template with the laser marking system kit.
This template supports TEI and DI IUID styles which use CAGE or DoDAAC vendor codes. The template
text and bar code data automatically switch styles depending on the inclusion or exclusion of certain
data fields, use of special characters, and data field length. Input values are auto corrected for case,
illegal character, and length limitations. IUID Sequence values are length truncated, when required, to
satisfy the overall UII length limit of 50 characters. Use of these template files greatly improves the data
quality of a customer’s IUID marks, allowing for a significant reduction of errors found during IUID
Verification. IDI has over 15 years’ experience using BarTender to integrate to nearly any enterprise
database, or even non-Windows driver marking systems.

Laser Marking System kit includes a three year warranty for the laser and air filtration system. The kit
includes a three printer BarTender Automation license with ID Integration developed IUID Template as
the software used to print IUID labels. The kit also includes a stand with castors for the laser and a
starter kit of various laser engrave-able materials.
4.4.2 CLIN X007AC - VERIFICATION EQUIPMENT.

Axicon Auto ID Ltd, a world leader in barcode verification and barcode quality in general. The company has been in the barcode business for more than 35 years and is recognized as a global leader in barcode verification. Axicon staff are active participants in the standardization committees of ISO and GS1.

GS1 organizations around the world use Axicon verifiers including GS1-USA. Axicon's US office opened in 2005 to manage its business in the Americas.

The Axicon Barcode Verifiers conform to the latest ISO/ANSI print quality standards. Our equipment has been independently tested and conforms to ISO/IEC 15426-1. All Barcode Verifiers have a USB connection and come with free software and unlimited software updates for the life of the verifiers. The Axicon 12000 - 2D verifier is aimed at verifying 2D bar codes such as Data Matrix, GS1 DataBar codes, QR codes, PDF and micro PDF codes.
Features & Benefits

- ISO 15415 Print quality specifications.
- ISO 15426-2 Verifier conformance standard

The verifier is fully featured and includes all the features necessary to meet the stringent 21 CFR part II requirements.

Hardware

- ISO compliant 2D barcode verifier.
- Aperture selectable to suit application standard.
- Wavelength 660nm.
- The Model 12500 has a maximum scan area of 37mm x 25mm.

The verification system is delivered complete with the read head (hardware), a CD with the Axicon verifier software, all cables, a quick start guide, a calibration card, compliance certificates, all in a protective carry case.

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X007AC</td>
<td>Desktop Verifier for Labels</td>
<td>12500</td>
<td>Axicon 12500 Barcode Verifier</td>
<td>1</td>
</tr>
</tbody>
</table>

4.5 Radio Frequency Data Communication Configurations

4.5.1 Access Points

For the RF Access Points Lowry is offering Aruba’s Access Points. Aruba's Access Points (APs) serve as secure on-ramps to aggregate wireless and wired user traffic to the enterprise network, transporting this traffic between users and the centralized Mobility Controller. Aruba has a comprehensive product line for many different deployment environments that might require support for:

- Single and Dual Radio 802.11a/b/g/n/ac
- Wireless and Wired Networks
- Indoor and Outdoor Usage
- Telecommuter Deployments
- Harsh Environment / Industrial Applications
- Mesh and Wireless Bridging Deployments
- Unclassified and classified environments

In addition to providing WLAN and wired network access, wireless access points provide RF monitoring services for both performance and security monitoring. All AP configuration and monitoring takes place from the Controller; the intermediate Ethernet LAN or IP WAN requires no modifications for the AP to be deployed – there simply needs to be basic IP connectivity between the AP and the Controller.
4.5.1.a CLIN X009AA - RF Access Points, Protected Environment

For the RF Access Point, Protected Environment Lowry is offering the Aruba AP-205-F1. These high-performance 802.11ac APs deliver wireless data rates up to 300 Mbps per radio and ensure peak performance by utilizing channel bonding, block acknowledgement and MIMO radios. Advanced antenna technology also increases RF signal range and reliability.

The AP-205-F1 features 2.4-GHz and 5-GHz radios, each with 2x2 MIMO and two integrated omni-directional downtilt antennas.

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X009AA</td>
<td>Radio Frequency Access Point (indoor environment)</td>
<td>JW165A (previously AP-205-F1)</td>
<td>Aruba AP-205 Wireless Access Point, 802.11ac, 2x2:2, dual radio, integrated antennas (FIPS/TAA)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW047A (previously AP-220-MNT-W1)</td>
<td>Aruba AP Mount Kit, contains one flat-surface wall/ceiling mount</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AR12106CHSSLT</td>
<td>IP67/NEMA 4 Rated 12x10x6 inch polycarbonate enclosure with transparent hinged locking lid &amp; stainless steel latches. No back plate</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALBP1210</td>
<td>Aluminum back plate</td>
<td>1</td>
</tr>
</tbody>
</table>

4.5.1.b RF Access Points Indoor / Outdoor Use

For the RF Access Point for indoor / outdoor use Lowry is offering the Aruba AP-274-F1. These high-performance 802.11ac outdoor APs deliver wireless data rates up to 600 Mbps per radio and ensure peak performance by utilizing channel bonding, block acknowledgement and MIMO radios. Advanced antenna technology also increases RF signal range and reliability.

Able to survive in harsh outdoor environments, 274 series APs withstand exposure to high and low temperatures, persistent moisture and precipitation, and are fully sealed to keep out airborne contaminants. All electrical interfaces include industrial-strength surge protection.
### The AP-274-F1 features 2.4-GHz and 5-GHz radios, each with 3x3 MIMO and three external antenna connectors

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X009AB</td>
<td>Radio Frequency Access Point (NEMA)</td>
<td>JW177A (previously AP-274)</td>
<td>AP-274 Aruba AP-274 Wireless Access Point, 802.11ac, 3x3:3, dual radio, antenna connectors (FIPS</td>
<td>TAA)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW053A (previously AP-270-MNT)</td>
<td>Aruba 270 Series Outdoor AP Short Mount Kit. Pole/Wall Mount for AP-270. Positions AP 75 mm from vertical mounting asset</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW060A (previously AP-LAR-24)</td>
<td>Aruba Outdoor Antenna Lightning Arrestor for outdoor Access Points: Single, In-line lightning arrester with N-type Male to N-type Female interface. Supports RF frequency Passband of 2.4-2.5 GHz</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW061A (previously AP-LAR-1)</td>
<td>Aruba Outdoor Antenna Lightning Arrestor for outdoor Access Points: Single, In-line lightening arrester with N-type Male to N-type Female interface. Supports RF frequency pass-through of 2Ghz- 6Ghz.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW031A (previously Ant-3X3-5005)</td>
<td>Set of 3 (H x 1/ V x 2 Polarization) 5 GHz, Omni-directional, 5dBi, Direct-mount, N-type connectors. Pole mount,</td>
<td>1</td>
</tr>
</tbody>
</table>
### 4.5.1.c CLIN X009AC - RF Gateway

For the RF Gateway Lowry is offering the Aruba 7010 Cloud Services Controller. The **Aruba Cloud Services Controller** serves as the centralized control point for all network and user activity and is designed to address a wide range of wireless and wired network mobility, security, policy management, and remote access requirements for networks of any size. Unlike other solutions, Aruba WLAN systems are purpose-built and completely self-contained, and do not require ancillary security appliances or cryptology overlays.

Aruba Controllers feature programmable network processors and encryption engines that are optimized for 802.11a/b/g/n/ac data, voice, and video networks, providing high throughput, massive scalability, and advanced security. Controllers are typically installed in a secure data center near the application, servers and voice systems, or in the core network of a building. Controllers are compactly packaged, offer a range of high-availability options, and feature very low energy consumption to reduce ongoing operating expenses and HVAC loading. For scalability and redundancy, Controllers can be logically connected in a hierarchy.

Key characteristics of the Aruba Controllers include:

**Table:**

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
</table>
| JW030A  
(Previously ANT-3X3-2005) | Set of 3 (H x 1/ V x 2 Polarization) 2.4GHz, Omni-directional, 5dBi, Direct-mount, N-type connectors. Pole mount, I-beam, and ceiling tile mount hardware included. Requires N-male to N-female extension cable if not used in direct mount. Outdoor use. | 1 |
| H3HZ3E  
(Previously SN3-AP-274-F1) | ARUBACARE NBD SUPPORT FOR AP-274-F1 (3 YEAR) | 1 |
• Scalability from 200mb/s to 40Gb/s of AES-CCMP-256 or AES-256-GCM encrypted packet throughput.
• Adaptive 802.11a/b/g/n/ac WLAN support.
• IPSec / SSL VPN capabilities supporting NSA Suite-B algorithms, which are approved for use in transmission of classified information.
• Easily deployed as an overlay without any change in the wired network.
• Works in conjunction with ArubaOS and Aruba Access Points for many different WLAN deployment modes, including campus, mesh, point-to-point and remote.
• Role Based Access control with supporting security policies that can be applied to users, mobile devices, applications, and location.
• Context awareness of mobile devices connected to the network.
• FIPS-140-2 Level 2 Validated, Unified Capabilities Approved Products List (UC-APL) certified, Common Criteria EAL-2+ and EAL-4 Validated.

<table>
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<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X009AC</td>
<td>Radio Frequency Gateway</td>
<td>JW703A (previously 7010-USF1)</td>
<td>Aruba 7010 (US) FIPS/TAA 16p 150W PoE+ 10/100/1000BASE-T 1GBASE-X SFP 32 AP and 2K Clients Controller. Integrated AC power supply. This SKU is an US only SKU and should not be deployed in rest-of-world</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW124A</td>
<td>PC-AC-NA North America AC Power Cord</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW473AAE (previously LIC-PEFNG)</td>
<td>Aruba LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JW474AAE (previously LIC-RFP)</td>
<td>Aruba LIC-RFP Controller RFProtect Per AP License E-LTU</td>
<td>8</td>
</tr>
</tbody>
</table>
4.5.1.d CLIN X009AD - Indoor Office Access Point

For the Indoor Access Point, Lowry is offering the Aruba AP-225-F1. With a maximum data rate of 1.3 Gbps in the 5-GHz band and 600 Mbps in the 2.4-GHz band, 220 series APs are three-times faster than 802.11n APs and provide performance similar to a wired connection.

The AP-225 features 2.4-GHz and 5-GHz radios, each with 3x3 MIMO and three integrated down-tilt omni-directional antennas with maximum antenna gain of 3.5 dBi in 2.4 GHz and 4.5 dBi in 5 GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of AP-225.

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>X009AD</td>
<td>Indoor Office Access Point</td>
<td>JW175A (previously AP-274)</td>
<td>Aruba AP-225 Wireless Access Point, 802.11n/ac, 3x3:3, dual radio, integrated antennas, FIPS/TAA</td>
<td>1</td>
</tr>
</tbody>
</table>
### 4.6 CLIN 0011AA - Small Arms Room Transit Case (Kit)
For the Small Arms Room Transit Case, Lowry is offering the solutions from Williams Software Associates. Williams is the author of the SMARTRACK Small Arms Room software and provides a kit with the following:

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
<th>Model / Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
</table>
| 0011AA      | Transit Case Configuration, Small Arms Room Kit        | RS11                | 13.3" Rugged Slim Laptop Computer  
Basic System (available in Black or Green color):  
Aluminum chassis w/ 2-Pin DC-In  
13.3" HD+ (1600 x 900) LED LCD/Optical Bonding  
Intel® Core i7-3517UE 1.7GHz (up to 2.80 GHz with Turbo Boost)  
Processor 4M Smart Cache  
Intel® HD Graphics 4000  
4GB RAM (DDR3 1600Mhz)  
256GB MLC SSD SATA HDD  
Microsoft® Windows 7 Professional (64-bit)  
Backlight keyboard | 1         |
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gigabit Ethernet port x 1, USB3.0 x 2, SD Card slot x 1, SIM Slot x 1, Smart Card Reader, Primary 6040mAh Li-polymer Battery, AC Adapter (90W, 100-240V, 50-60Hz), MIL-STD-810G, IP-65 Certified With optional touch screen display included</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SP60NB50</td>
<td>8x External Double-Layer DVD±RW/CD-RW Drive</td>
<td>1</td>
</tr>
<tr>
<td>Targus ACP71USZ</td>
<td>USB docking station Dimensions (WxDxH) 6.7 in x 16.7 in x 3.1 in Weight 3 lbs Networking Gigabit Ethernet 1 x display / video - DVI-Analog/Digital - 29 pin combined DVI 1 x audio / video - HDMI - 19 pin HDMI Type A 2 x SuperSpeed USB 3.0 - 9 pin USB Type A 4 x USB 2.0 - 4 pin USB Type A 1 x network - 10Base-T/100Base-TX/1000Base-TX - RJ-45</td>
<td>1</td>
</tr>
<tr>
<td>Item Description</td>
<td>Model/Details</td>
<td>Quantity</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>----------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>•1 x audio - line-out - mini-phone stereo 3.5 mm</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>•1 x microphone - input - mini-phone mono 3.5 mm</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Elo Touch Systems 1517L-15</td>
<td>Touch Monitor -15 In Touch Screen Monitor, intelli Touch USB</td>
<td>1</td>
</tr>
<tr>
<td>Topaz Systems T-S460-HSB-R</td>
<td>Signature Pad -SigLite 1 x 5 USB powered Signature Pad</td>
<td>1</td>
</tr>
<tr>
<td>Tripp Lite ECO 350V</td>
<td>UPS Back Up -350 Volt 180 Watt Power Back Up and Surge Protector</td>
<td>1</td>
</tr>
<tr>
<td>Adata HV620</td>
<td>Back Up Data Drive - Dash Drive USB 3.0 500 GB External Storage Drive</td>
<td>1</td>
</tr>
<tr>
<td>Pelican 1690</td>
<td>Transit Case -L 30.01 X W 25.02 X D 15.00</td>
<td>1</td>
</tr>
<tr>
<td>HP P1102W</td>
<td>Laser Printer -Black and White Laser Printer</td>
<td>1</td>
</tr>
<tr>
<td>Sun Micro Systems SCR3310</td>
<td>CAC Reader USB -USB Smart Card Reader</td>
<td>1</td>
</tr>
<tr>
<td>Motorola MT2070-SD0D62371R</td>
<td>1D/2D/IUID Imager Kit - Motorola Govt 1D/2D/IUID/DPM Imager w/battery USB key board wedge. 15 Ft USB stretch Cable</td>
<td>1</td>
</tr>
<tr>
<td>Motorola KT STB2000-C1US</td>
<td>Motorola MT 2070 Charging Base -Charging Cradle with AC Adaptor</td>
<td>1</td>
</tr>
</tbody>
</table>
5. Software

5.1 CLIN 0013AA - Bar Code Printing Software
For Bar Code Printing Software, Lowry is offering Bar Tender. BarTender bar code printing software meets the requirement of the AIT-V/PWS. Hundreds of thousands of people around the world use the BarTender® program to make labels, barcodes and RFID tags. Seagull Scientific, the maker of BarTender, is also the world’s largest developer of Windows drivers for label printers. With BarTender, a few quick mouse motions are all it takes to combine bar codes, text, and graphics into professional quality labels. You can even encode RFID tags. BarTender supports Password Security. Even the slightest alteration of a label can take it out of compliance. Fortunately, it’s easy to lock BarTender into a “print only” mode that prevents unauthorized changes.

<table>
<thead>
<tr>
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</thead>
</table>

5.2 CLIN 0013AB - Small Arms Room Management Software
For Small Arms Rooms Management Software, Lowry is offering Williams Software Associates SMARTRACK software. SMARTRACK software meets the requirement of the AIT-V

Benefits to the Government
SMARTRACK was built around the army regulations for physical security and property accountability. All the business rules in arms room management are integrated into the system. The system helps to keep the armorer in compliance with all army regulations.
The average time to fill out the DA 2062 and FB 2488-1e per soldier takes about 2 Minutes x 190 soldiers = 6.3 hours. That is without adding the time it takes to find the items and verify the serial numbers. Also, this does not include the enormous amount of time it takes to find and issue items to a soldier whose items are out for maintenance, or he has to get additional items for others. Many times, a soldier will need to be assigned items at the last minute, this often results in the soldier taking someone else’s assigned equipment or receiving items that are inoperable. SMARTRACK eliminates this problem by ensuring that the customer is aware of dead lined items and items that are not on his account at the time of issue.

Average time to fill out the required paper work with smart track takes about 10 seconds. The information is auto populated using the CAC card and scanner. The validity of the information is accurate to 100 percent. The old system allows for paper only. If the paper is lost, you have no way of tracking accountability. This becomes a major issue when an item is lost and cannot be found. Most times when an item is lost it is because someone has lost track of it and the item is not assigned or signed for properly. Soldiers are locked down or sent looking for an item that may be signed out to someone in a school, or temporarily issued to another unit. Many days are wasted looking for an item that may not exist or is already accounted for. These distractions have major impact on training hours, moral and motivation.

During initial testing, the system reduced the time of the issue and turn in process. Several tests were conducted to totally empty out the arms room and issue assigned and unassigned items to every person in the unit. The time to issue the items was reduced by 60-70 percent and accuracy of the transactions remained at 100 percent the entire time of evaluation. We believe that with system familiarity the times will further decrease as soldiers learn the system. This results in more time training and less time standing in line.

SMARTRACK will allow the commander to track any piece of equipment in the unit. The system can track PBUSE and Non-PBUSE equipment. The system will allow the commander the process to add any equipment into the system, tag it, assign it, and immediately issue it to a soldier within minutes.

Forms Library: SMARTRACK includes a fully staffed library, which includes TM’s, DOD, and Army Forms, and Regulations required to be present in the arms room. The system allows the unit to add their own manuals to the system at.

SARMS Maintenance

SMARTRACK tracks the maintenance schedules from SAMMS and display those requirements to the armorer on a daily basis when the system is booted. Along with that it provides automated DA 2404 or DA 5988’s for the individual soldier and armorer. These virtual forms maintain maintenance deficiencies of any weapon or piece of equipment until it is repaired and records all maintenance done in a history file for that piece of equipment. The virtual forms will only require updating when new problems are found. They will save time by not having to rewrite prior deficiencies every time maintenance is conducted.
By conducting scheduled and unscheduled maintenance with the SMARTRACK system items are dead lined on the spot, put into the readiness calculations and then presented as being inoperable during assignment and the check in and out process. If the item is sent out for repairs or awaiting parts the system reminds the armorer of where these items are, when they are to be picked up, and when parts are due in. Once repaired the system reverses the built-in warnings. The system also saves time in writing up all the header information because all of the forms are auto populated during the maintenance process.

SMARTRACK allows the armorer the ability to query out years ahead to see what equipment will be due for maintenance. The system automatically informs the armorer when maintenance it due 10 working days prior to when it is due for inspection. SMARTRACK also provides a mechanism to conduct on demand maintenance for items requiring immediate attention.

SMARTRACK will safe guard the soldier by tracking and notifying the user of when they are close to exceeding the maximum rounds that can be fired from equipment. Once the item has met that threshold we automatically produce the maintenance paperwork for repair and notify the soldier and armorer that the item is due for maintenance.

SARMS MAL

Without the Small Arms Room Software, you did not have automated visibility on the Property Book, MAL Assignments, Checked-Out Items, and Equipment Assignments. A change in any area of the system is automatically adjusted to other product areas in the system. For instance, a dead line item will be identified during check out and while assigning equipment, The MAL and the maintenance function.

Without the SARMS, anyone with a weapons card can remove something from the arms room. The armorer does not really have a data base to do instant comparisons against. With SMARTRACK the soldier must have an existing account in the system in order to be authorized to be assigned and receive items from the arms room. The MAL also restricts personnel on the do no issue list from receiving items until that person is cleared by the command. This can save the unit the headache of serious issues that can surface later when these folks are issued items that they are restricted from receiving.

SARMS Equipment Capture

When new equipment is received by the unit there is a lapse of time between when the equipment is received and when it makes it to the property book. This is another prime time for something to come up missing. The SMARTRACK system allows you to enter the equipment details and serial numbers into the system. The unit can then bar code and assign the item, which renders the items ready for issue and immediate use while ensuring accountability. Once in the system only the supply sergeant or executive officer can remove the items.

Units that deploy have experienced a high rate of lost equipment during the deployment process. When they arrive at the staging country the unit is often split up in different locations and not all of the correct accountability personnel are present. When new weapons or sensitive items are picked up along the deployment process they can immediately be entered into the SMARTRACK system faster than they
would on any property book system. During redeployment, many units are incurring unforeseen costs because they are missing equipment assigned to them during the deployment process that has not been properly accounted for.

This holds true for units that get attached to the unit. You can enter a new unit and all of its sensitive items into the system on the spot. This allows you to track every sensitive item in the unit right up front.

One of the best features is the ability to locate found equipment. If an item is found by someone the unit will immediately know if it belongs to them by entering the serial number or scanning the barcode into the system. When networked, the system will be able to identify who the item belongs to, what unit it belongs to, and when it was issued allowing for the item to be returned to its rightful owner.

**SARMS Reports**

This is another area where lots of time can be saved. For example, a team, squad, or platoon leader can be the last person in the element to check out their items. They can then receive a print out of all items the platoon received, thus giving him a truthful document in which to track the platoon’s sensitive items. Currently this is done by writing down all the data in a formation after weapons issue. That time can be spent preparing for a mission.

Currently leaders spend countless hours trying to keep a platoon MAL up to date. Often many of the changes they make does not get communicated or transferred to the armorer’s paper based or excel spread sheet system. Trying to manage several platoons MAL’s is too confusing and time consuming for the leaders and soldiers. With SMARTRACK the platoon leaders and sergeants have one source that can be updated in five minutes.

All elements are able to get real time printouts of their personnel roster, property book, MAL, issued items reports and maintenance readiness updates within seconds.

When a unit deploys, the armorer has a stack of paperwork with him to show what has been issued and where the item is located. Whenever he is asked to show where something is at that time he must shuffle though the stack of papers and waste time trying to find the information through the unreadable forms and receipts. With the SMARTRACK system he just opens the laptop and brings the information up on the screen or pulls out his self-contained issued items report.

<table>
<thead>
<tr>
<th>CLIN / SLIN</th>
<th>Product / Service</th>
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<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0013AB</td>
<td>Small Arms Room Management Software</td>
<td>SMARTRACK SA</td>
<td>SMARTRACK Small Arms Room Software v 3.0</td>
<td>1</td>
</tr>
</tbody>
</table>
## 6. Cables

This Section shall list all provided cables, and equipment cable requirements in a chart format that shall allow the user to identify the correct cables for connecting AIT-V devices. CLINs shall be provided on the chart.

<table>
<thead>
<tr>
<th>Cable CLIN</th>
<th>Part/Model #</th>
<th>Description</th>
<th>Cable From</th>
<th>Cable To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part of X001EH</td>
<td>Lowry-USBHost</td>
<td>USB Cable for Host Connection 6 ft</td>
<td>CLIN X001EA HHT-E Single Battery Charger / Docking Station</td>
<td>Computer / PC</td>
</tr>
<tr>
<td>X001EM</td>
<td>AK18666-4</td>
<td>HHT-E Portable printer interface connection and cable</td>
<td>CLIN X001EA HAND HELD TERMINAL-E (HHT-E)</td>
<td>CLIN X005AA Portable/Wearable Bar Code Label Printer</td>
</tr>
<tr>
<td>Part of X001FH</td>
<td>Lowry-USBHost</td>
<td>USB Cable for Host Connection 6 ft</td>
<td>CLIN X001FA HHT-F Single Battery Charger / Docking Station</td>
<td>Computer / PC</td>
</tr>
<tr>
<td>X001FM</td>
<td>AK18666-4</td>
<td>HHT-F Portable printer interface connection and cable</td>
<td>CLIN X001FA HAND HELD TERMINAL-F (HHT-F)</td>
<td>CLIN X005AA Portable/Wearable Bar Code Label Printer</td>
</tr>
<tr>
<td>Part of X003AA</td>
<td>236-219-001</td>
<td>CBL, USB, PWD, Coiled 3ft to 8ft</td>
<td>CLIN X003AA SR61T HP SCANNER</td>
<td>USB Host device (Computer / PC / Tablet)</td>
</tr>
<tr>
<td>Part of X003AB</td>
<td>CBL-500-300-S00</td>
<td>USB Type A 3m straight cable</td>
<td>Scanner (CLIN X003AB) communication base (CCB02-100BT-07N)</td>
<td>USB Host device (Computer / PC / Tablet)</td>
</tr>
<tr>
<td>Part of X003AC</td>
<td>236-219-001</td>
<td>CBL, USB, PWD, Coiled 3ft to 8ft</td>
<td>CLIN X003AC SR61T HP SCANNER</td>
<td>USB Host device (Computer / PC / Tablet)</td>
</tr>
<tr>
<td>Part of X003AD</td>
<td>236-219-001</td>
<td>CBL, USB, PWD, Coiled 3ft to 8ft</td>
<td>CLIN X003AD SR61THD DPM Indust High Density Area Imager</td>
<td>USB Host device (Computer / PC / Tablet)</td>
</tr>
<tr>
<td>Part of X005AA</td>
<td>AK18666-4</td>
<td>USB cable</td>
<td>CLIN X005AA - P4T Printer</td>
<td>USB Host device (Computer / PC / Tablet)</td>
</tr>
<tr>
<td>Part of X005AA</td>
<td>AK17463-008</td>
<td>ACC Serial, RJ-45, Interlocking PC Cable</td>
<td>CLIN X005AA - P4T Printer</td>
<td>RS23 Host Device</td>
</tr>
</tbody>
</table>
### 7. Technical Engineering Services
This Section contains procedures that provide the user with all necessary information required to order Technical Engineering Services (TES).

The following is a list of the Technical Engineering Services CLIN’s.

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Description</th>
<th>Unit of Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>X017AA</td>
<td>Project Manager</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AB</td>
<td>Instructional Design and Development Specialist</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AC</td>
<td>Senior Programmer</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AD</td>
<td>Systems Analyst</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AE</td>
<td>Software Systems Engineer</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AF</td>
<td>Programmer/Analyst</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AG</td>
<td>Junior Programmer</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AH</td>
<td>Systems Engineer</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AJ</td>
<td>Data Comm/Network Specialist</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AK</td>
<td>RF Technical Radio Specialist</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AM</td>
<td>Technical Training Specialist</td>
<td>Hour</td>
</tr>
<tr>
<td>X017AN</td>
<td>Technical Writer</td>
<td>Hour</td>
</tr>
</tbody>
</table>

### 7.1 Introduction
Lowry will provide TES on-site at Government sites and at Lowry’s facilities as specified in the Task Order. TES shall include those services required for turnkey implementation, IUID implementation support, equipment integration, site analysis, installation, de-installation, relocation, problem-solving, user unique training, IPT support, conducting PCAs/FCAs, software development; communications, interfaces to other Government systems, equipment and systems engineering services, System Design...
and systems integration to include middleware integration to enterprise systems. Any cables or adapters not listed in this Contract and materials required for installation of Lowry-provided Automatic Identification Technology components, may be ordered through this Contract in accordance with the provision entitled “Incidental Materials”. TES shall be ordered by a Task Order only.

7.2 Task Order – Technical Engineering Services

1. Upon receipt of proposal request for TES, which includes a description of the tasks; Lowry Solutions shall submit a price proposal as soon as possible, but not more than fifteen workdays after receipt of the request unless so agreed to by the Ordering Contracting Officer. Lowry’s proposal shall contain sufficient detail to enable the Government to determine the acceptability of the proposal and shall include, as a minimum:
   A. A brief description of the technical approach which demonstrates Lowry’s understanding of the task(s);
   B. Proposed timeline schedule;
   C. Proposed labor categories from the Master CLIN listing and the number of hours for each category;
   D. Proposed Incidental Materials including price and description of each item (see paragraph "Incidental Materials" in this Part) and;
   E. Proposed price for Travel with a breakout of airfare(s), per diem, rental car(s), and any other travel-related expenses.
   F. (F) For turnkey proposals only:
      a. Proposed AIT-IV hardware and software CLINs/SLINs required for the proposed solution, and
      b. Any required Government-furnished AIT and Active RFID hardware and software and the associated logistical requirements (e.g., locations and dates for the Government to furnish the items).

2. The Government will negotiate a total firm-fixed price for the effort, excluding incidental materials. This firm-fixed price will include all labor, travel, and per diem required to complete the effort and will be included in the task order. If applicable, the Government will negotiate a separate firm-fixed price for the incidental materials, which will be included in the task order. The incidental materials shall be consistent with paragraph entitled “Incidental Materials” in this Part.

3. Travel and per diem shall be consistent with the then current rates, requirements, and limitations applicable to Government personnel in the Federal Joint Travel Regulations or other applicable regulation.

4. Incidental Materials shall only include those items/materials necessary to complete the installation service ordered in accordance with the paragraph entitled “Task Order – Technical Engineering Services (TES)” in this part. The price for the items/materials shall be negotiated on a firm-fixed price basis for each task order, if required (reference paragraph entitled “Task Order – Technical Engineering Services” in this Part). The total negotiated price for incidental materials for each task order shall not exceed $50,000.
7.3 Technical Engineering Service Factors

7.3.1 Travel
Prices for Lowry personnel travel and per diem to perform TES shall be in accordance with the requirements set forth in “Task Orders – Technical Engineering Services” in Section H of the RFP.

7.3.2 TES Trip Report
Lowry will submit a TES Trip Report to the Task Order POC or Task Order COR, if applicable, no later than five workdays after the completion of each trip made for TES. The trip report will be in Lowry's format and will contain as a minimum: 1) Report date, 2) Customer name, address, point of contact and telephone number, 3) Project name, 4) Time of arrival and departure, 5) Recommended or provided incidental materials description, 6) Summary of work completed, 7) Lowry point of contact name and signature.

7.3.3 Program Manager
Lowry’s Program Manager shall manage all Delivery Orders, Task Orders, and purchase card orders, and shall be Lowry’s authorized point-of-contact for Delivery Orders, Task Orders and purchase card orders. Lowry’s Program Manager shall be responsible for formulating and enforcing work standards, assigning schedules, and reviewing work discrepancies, communicating policies, purposes, and goals of the organization to the assigned Lowry personnel for performance of this Contract. Lowry’s Program Manager shall manage Delivery Order and Task Order performance.

8. Warranty Support

8.1 Overview
Lowry Solutions will provide a three-year, five-year or seven-year warranty, including all parts, labor, and shipping costs for AIT components provided. Lowry Solutions will provide a minimum of a three-year warranty service for software products. We will repair or replace failed AIT components covered under warranty. Lowry Solutions will immediately notify the ordering Contracting Officer (CO) and order Point of Contact (POC) regarding equipment requiring repair or replacement due to apparent User abuse, negligence, or missing significant parts, such as circuit cards or boards.

Lowry Solutions has close relationships with equipment vendors and communications providers and will work within the warranty and Service Level Agreement (SLA) guidelines to effect repairs as quickly as possible. For systems or hardware not covered by multiyear warranties or service contracts, the Lowry Team will provide all hardware maintenance. Additionally, aggressively managing warranties and working with maintenance support contract vendors will also avoid extended maintenance downtime caused by delays in ordering replacement parts.

During the equipment warranty period, Lowry Solutions will implement changes to correct equipment malfunctions in accordance with industry best commercial practices. The implementation will be in accordance with a mutually agreed-upon schedule. These changes will be made at no additional cost to the Government.
The warranty period for items ordered by Delivery Order shall begin upon Government acceptance of the equipment. The warranty shall include mail-in procedures and on-call procedures as specified below.

8.2 Warranty Mail-In Procedures
Lowry Solutions will bear all cost associated with shipping, both from and return to Government sites. We will be responsible for the equipment from the time of receipt and until return to the Government. We will follow the Government instructions for return shipment after repair. If the User requires the same serial number equipment, Lowry Solutions will restore all malfunctioning equipment covered under warranty to a fully operational condition and ship the equipment back to the User no later than eight (8) workdays after receipt of the failed equipment (CONUS and OCONUS). In the event a same serial number component requested by the User cannot be repaired, Lowry Solutions will notify the Government User no later than three (3) workdays after receipt of the component at the Lowry facility.

AIT-V returned warranty items marked with an IUID that require change of custody will be coordinated with the customer and reported to the DoD IUID Registry by Lowry.

8.3 Component Return and Tracking
Lowry Solutions will provide a method to enable the user to quickly identify and track AIT components that have been sent for warranty service. Lowry Solutions will assign a RMA number and inform the user of the RMA number as the tracking number, and serial number for each AIT component returned for warranty service.

Tools used to meet warranty service: Maintaining long-term success in meeting response time’s demands use of proper tools and a continuous improvement process. The Lowry Team tracks warranty commencement dates, spare parts inventories, technical service bulletins, and parts service history

8.4 Warranty Replacement Parts
Lowry Solutions will warranty replacement items installed during the initial warranty period equal to the remaining warranty period for the original item, or 90 calendar days, whichever is greater. However, the Government reserves the right to purchase unserviceable parts containing sensitive or classified material, as required by statute or regulation.

8.5 Requesting service by phone:
Lowry Solutions CONUS toll free number 1-800-733-0010.

OCONUS Dial 1-810-229-7200 (Ext. 6484)

User will provide Lowry Solutions service coordinator with the following information:

- Model of unit requiring service;
- Serial# of unit requiring service;
- Contact name;
- Contact phone#;
- Address of location requiring service; and
- Brief description of problem you are experiencing.
8.6 Equipment Return and Tracking
The service coordinator will confirm the address where the defective equipment is located. Lowry shall assign the User a RMA number prior to the Government mailing in the failed equipment to the repair center for repair or replacement. The User will be informed of the RMA number and serial number of each component returned to the Contractor for warranty and maintenance service. All failed equipment returned to the repair center shall be identified by the RMA number. The RMA number will be used by the Government to help track the failed component through the warranty or maintenance service process.

8.7 Requesting service by email:
Service may be requested by email at servicerequest@lowrysolutions.com

User will provide an email message all the information outlined above. Lowry Solutions service coordinator will respond within 1 hour with your service request reference#.

8.8 Warranty On-Call Procedures
Lowry Computers will provide on-call warranty service for AIT-V UUID Marking equipment in CONUS location. For CONUS locations, Lowry Solutions will provide on-call repair no later than three (3) workdays of notification. We will provide on-call warranty service outside the official hours of operation when required by the user. When warranty service outside the official hours of operation is ordered in CONUS locations, Lowry Solutions will replace or return the equipment to a fully operational status no later than five (5) calendar days from the time Lowry Computers was notified of the malfunction.

8.9 Metrics
Lowry has a goal of 100% that work is complete, accurate and timely, and for adherence to Government schedule for contract metrics and Task order metrics.

8.10 Preventive Maintenance.
Preventative maintenance required for products within the proposal is to be performed by Government personnel. Lowry shall provide to the Government, in detail, all requirements and procedures for preventive maintenance and troubleshooting-level diagnostics, in documentation and User Manuals. Lowry shall provide Material Safety Data Sheets to the Contracting Officer, COR and all users as specified in the individual order in accordance with FAR Clause 52.223-3 within the RFP. Lowry shall provide documentation for each appropriate hardware CLIN that shall include preventive maintenance checks, service schedules, and troubleshooting-level diagnostics.

8.11 Lowry Software Support
Lowry has a comprehensive support infrastructure in place today. The support infrastructure starts with the call dispatch center. The call dispatch center is the initial point of contact for all technical issues. The call dispatch center facilitates remedial on-site support, technical phone support, software support, installation, and logistics support. The call center receives a call, opens a ticket and guides the caller through a questionnaire to acquire the details about the issue. The call center provides the caller with the ticket number for future reference and routes the ticket to the appropriate group for resolution.
Once a ticket has been initiated, our Lowry support group is responsible for call resolution. Initial triage is done by our Lowry Tier 2 support group. They will evaluate the problem, provide direction and document the results. If needed, this support group will engage the assistance of the hardware or software developer. Lowry continues to manage and track the issue through final resolution.

Once engaged, Lowry will provide software support services by phone and/or written support services through fax, email, or internet. Support will include user assistance as well as analysis of defects or errors in the software or documentation. If a defect in the software is confirmed, Lowry will assist remotely with installation of corrected software.

Open support tickets are time sensitive meaning open ticket elapsed time is measured against service level parameters configured in Lowry’s service management system. When certain service level agreement time fences are passed, the system will trigger an escalation plan that moves up the Lowry management chain until the issue resolved.

9. Preventative Maintenance
The following CLINs have procedures for preventative maintenance:

- CLIN X005AA - Portable Wearable Bar Code Label Printer
- CLIN X005BA - Stationary Bar Code Label Printer
- CLIN X005BB - Stationary Bar Code Label Printer, with Installed Take-Up Reel
- CLIN X007AA - Laser Marking Equipment (Epilog Mini 24)

9.1 CLIN X005AA - Portable Wearable Bar Code Label Printer
Use the information in this section to understand how to clean parts of the Portable Wearable Bar Code Label Printer.

Taken from Zebra Model P4T User Guide.

<table>
<thead>
<tr>
<th>Area</th>
<th>Cleaning Method</th>
<th>Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printhead Elements</td>
<td>Use a Zebra cleaning pen to clean the print elements from end to end (the print elements are located in the thin gray line on the printhead).</td>
<td>After every five rolls of media (or more often, if needed)</td>
</tr>
<tr>
<td>Platen Surface</td>
<td>Rotate the platen roller and clean it thoroughly with the cleaning pen.</td>
<td></td>
</tr>
<tr>
<td>Peeler Bar</td>
<td>Clean thoroughly with the cleaning pen.</td>
<td></td>
</tr>
<tr>
<td>Tear Edge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exterior</td>
<td>Wipe with water-dampened cloth</td>
<td>As needed</td>
</tr>
<tr>
<td>Interior</td>
<td>Brush/air blow. Ensure the Bar Sensor, Gap Sensor and Label Present Sensor windows and the Media Support Disks are free of dust.</td>
<td></td>
</tr>
</tbody>
</table>

General Cleaning Instructions
Version 1.21
May 8, 2018
Caution • Always turn the printer off before cleaning.

To avoid possible personal injury or damage to the printer, never insert any pointed or sharp objects into the printer.

Use care when working near the Tear Bar. The edges are very sharp.

Caution • The printhead can become very hot after prolonged printing. Allow it to cool off before attempting any cleaning procedures.

Caution • Use only cleaning agents specified in the P4T Series cleaning instructions. Zebra Technologies Corporation will not be responsible for damage caused by any other cleaning materials used on this printer.

Clean the printer with either a Zebra cleaning pen or a cotton swab saturated with 70% Isopropyl alcohol.

9.2 CLIN X005BA - Stationary Bar Code Label Printer
Use the information in this section to understand how to clean parts of Stationary Bar Code Label Printer.

Taken from Intermec by Honeywell Model PD43 User’s Manual.

Follow these guidelines for cleaning the printer:

- Always remove the power cord before cleaning.
- Never spray the printer with water. Protect it from water when cleaning the premises.
- Never use any sharp tools for removing stuck labels. The printhead and rollers are delicate.

Clean the Printhead

Cleaning the printhead on a regular basis is important for the life of the printhead and for the print quality. You should clean the printhead each time you replace the media. Follow this procedure to clean the printhead using the cleaning card. If you need to clean additional residue from the platen roller or tear bar, use a cotton swab moistened with isopropyl alcohol.

1. Turn the printer off and disconnect the printer from power.
2. Open the printer and remove the media and ribbon (if installed).
3. Insert most of the cleaning card under the printhead, and then lower the printhead.
4. Pull out the cleaning card and raise the printhead.
5. Wait for approximately 30 seconds to allow the cleaning fluid to dissolve the residue.
6. Repeat Steps 3 through 5 if necessary.
7. If necessary, clean residue from the platen roller or tear bar with a cotton swab moistened with isopropyl alcohol.
8. Once the parts are dry, replace the media (and ribbon) in the printer.
9. Close the printer, reconnect power, and turn on the printer.
Clean the Platen Roller

Follow this procedure to remove, clean, and replace the platen roller as part of standard maintenance for the printer. Intermec recommends that you check the platen roller for debris and clean it each time you replace media.

1. Turn the printer off and disconnect the power cord.
2. Open the top of the printer.
3. Open the media compartment door.
4. Press the printhead release button and raise the printhead.
5. Remove the installed media.
6. Press the roller latches apart and tilt them up.

7. Pull the latches up to remove the platen roller from the printer.
8. Remove any adhesive residue from the roller with a cotton swab moistened with isopropyl alcohol.
9. Reverse Steps 6 and 7 to install the roller.
10. Press the latches into the printer until they snap into place.
11. Replace the media in the printer.
12. Press the print mechanism down to lock it in place.
13. Close the media door and printer lid.

Clean the Exterior of the Printer

Make sure to keep the exterior of the printer clean. Maintaining a clean exterior will reduce the risk of dust or foreign particles reaching the inside of the printer and affecting printer functionality.

Use a soft cloth, possibly moistened with water or a mild detergent, when cleaning the printer exterior.

Make sure to keep the surface surrounding the printer clean as well.

9.3 CLIN X005BB - Stationary Bar Code Label Printer, with Installed Take-Up Reel

Use the information in this section to understand how to clean parts of Stationary Bar Code Label Printer, with Installed Take-Up Reel.

Taken from Intermec by Honeywell Model PM43 User’s Manual.

How to Clean the Printer

To properly maintain the printer, you should clean it regularly. You can clean these parts of the printer:

- The printhead
- The media guides
- The exterior of the printer

Follow these guidelines for cleaning the printer:

- Always remove the power cord before cleaning.
- Never spray the printer with water. Protect it from water when cleaning the premises.
- Never use any sharp tools for removing stuck labels. The printhead and rollers are delicate.

Clean the Printhead

Cleaning the printhead on a regular basis is important for the life of the printhead and for the print quality. You should clean the printhead each time you replace the media. Follow this procedure to clean the printhead using the cleaning card. If you need to clean additional residue from the platen roller or tear bar, use a cotton swab moistened with isopropyl alcohol.

**Caution: Never use hard or sharp tools to peel away stuck labels or other material. The printhead is delicate and can easily be damaged.**

1. Turn the printer off and disconnect the printer from power.
2. Open the media cover.
3. Remove the media and ribbon (if installed).
4. Insert most of the cleaning card under the printhead, and then lower the printhead.
5. Pull out the cleaning card and raise the printhead.
6. Wait for approximately 30 seconds to allow the cleaning fluid to dissolve the residue.
7. Repeat Steps 4 through 6 if necessary.
8. If necessary, clean residue from the platen roller or tear bar with a cotton swab moistened with isopropyl alcohol.
9. Once the parts are dry, replace the media (and ribbon) in the printer.
10. Close the media cover, reconnect power, and turn on the printer.

**Clean the Media Guides**

Both the upper and lower media guides are transparent to allow light to pass between the two parts of the label gap and label mark sensors.

It is important to keep these surfaces free of dust, stuck labels, and adhesive residue.

1. Turn the printer off and disconnect the printer from power.
2. Open the media cover.
3. Remove the media and ribbon (if installed).
4. Insert a cleaning card or a soft cloth soaked in isopropyl alcohol between the two media guides to clean them.
5. Wait for approximately 30 seconds to allow the cleaning fluid to dissolve the residue.
6. Once the parts are dry, replace the media (and ribbon) in the printer.
7. Close the media cover, reconnect power, and turn on the printer.

**Clean the Exterior of the Printer**

Make sure to keep the exterior of the printer clean. Maintaining a clean exterior will reduce the risk of dust or foreign particles reaching the inside of the printer and affecting printer functionality.

- Use a soft cloth, possibly moistened with water or a mild detergent, when cleaning the printer exterior.

Make sure to keep the surface surrounding the printer clean as well.

**9.4 CLIN X007AA - Laser Marking Equipment (Epilog Mini 24)**

The single most important thing that you can do to keep your laser working as if it were new is to keep it clean! Five minutes once a day will keep the residue and debris from building up and causing problems. There is almost no maintenance required for your laser if you KEEP IT CLEAN!

Refer to “Section 10: Engraving Machine Cleaning” of the Epilog User Manual for detailed cleaning instructions.
### 10. CLIN List and Prices

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>X001EA</td>
<td>Hand Held Barcode Terminal (HHT-E) Integrated Imager, Full Alphanumeric Keypad Capability and Large Display</td>
<td>$2,475.00</td>
</tr>
<tr>
<td>X001EB</td>
<td>HHT-E warranty upgrade to add 2 years (total 5 year warranty)</td>
<td>$552.00</td>
</tr>
<tr>
<td>X001EC</td>
<td>HHT-E warranty upgrade to add 4 years (total 7 year warranty)</td>
<td>$874.00</td>
</tr>
<tr>
<td>X001ED</td>
<td>HHT-E Holster and Shoulder Strap</td>
<td>$123.00</td>
</tr>
<tr>
<td>X001EE</td>
<td>HHT-E Detachable Handle and Trigger</td>
<td>$ -</td>
</tr>
<tr>
<td>X001EF</td>
<td>HHT-E Rechargeable Battery (1EA)</td>
<td>$80.00</td>
</tr>
<tr>
<td>X001EG</td>
<td>HHT-E Multiple (2) Battery Charger</td>
<td>$355.00</td>
</tr>
<tr>
<td>X001EH</td>
<td>HHT-E Single Battery Charger / Docking Station</td>
<td>$311.00</td>
</tr>
<tr>
<td>X001EJ</td>
<td>HHT-E One pack of (1) tethered replacement styli</td>
<td>$27.00</td>
</tr>
<tr>
<td>X001EK</td>
<td>HHT-E Transparent screen protector</td>
<td>$49.00</td>
</tr>
<tr>
<td>X001EM</td>
<td>HHT-E Portable printer interface connection and cable</td>
<td>$12.00</td>
</tr>
<tr>
<td>X001EN</td>
<td>HHT-E Detachable hand strap</td>
<td>$71.00</td>
</tr>
<tr>
<td>X001EP</td>
<td>HHT- E Carrying Case</td>
<td>$89.00</td>
</tr>
<tr>
<td>X001FA</td>
<td>Hand Held Barcode Terminal (HHT-F) Integrated Imager, Full Alphanumeric Keypad Capability and Small Display</td>
<td>$2,716.00</td>
</tr>
<tr>
<td>X001FB</td>
<td>HHT-F warranty upgrade to add 2 years (total 5 year warranty)</td>
<td>$253.00</td>
</tr>
<tr>
<td>X001FC</td>
<td>HHT-F warranty upgrade to add 4 years (total 7 year warranty)</td>
<td>$601.00</td>
</tr>
<tr>
<td>X001FD</td>
<td>HHT-F Holster and Shoulder Strap</td>
<td>$54.00</td>
</tr>
<tr>
<td>X001FE</td>
<td>HHT-F Detachable Handle and Trigger</td>
<td>$ -</td>
</tr>
<tr>
<td>X001FF</td>
<td>HHT-F Rechargeable Battery (1EA)</td>
<td>$93.00</td>
</tr>
<tr>
<td>X001FG</td>
<td>HHT-F Multiple (2) Battery Charger</td>
<td>$241.00</td>
</tr>
<tr>
<td>X001FH</td>
<td>HHT-F Single Battery Charger / Docking Station</td>
<td>$330.00</td>
</tr>
<tr>
<td>X001FJ</td>
<td>HHT-F One pack of (1) tethered replacement styli</td>
<td>$19.00</td>
</tr>
<tr>
<td>X001FK</td>
<td>HHT-F Transparent screen protector</td>
<td>$31.00</td>
</tr>
<tr>
<td>X001FM</td>
<td>HHT-F Portable printer interface connection and cable</td>
<td>$12.00</td>
</tr>
<tr>
<td>X001FN</td>
<td>HHT-F Detachable hand strap</td>
<td>$33.00</td>
</tr>
<tr>
<td>X001FP</td>
<td>HHT-F Carrying Case</td>
<td>$70.00</td>
</tr>
<tr>
<td>X001GA</td>
<td>Hand Held Barcode Terminal (HHT-G) Integrated Imager, Full Alphanumeric Keypad Capability, Small Display and NI Certified</td>
<td>$3,789.00</td>
</tr>
<tr>
<td>X001GB</td>
<td>HHT-G warranty upgrade to add 2 years (total 5 year warranty)</td>
<td>$1,139.00</td>
</tr>
<tr>
<td>X001GC</td>
<td>HHT-G warranty upgrade to add 4 years (total 7 year warranty)</td>
<td>$2,209.00</td>
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<tr>
<td>X001GD</td>
<td>HHT-G Holster and Shoulder Strap</td>
<td>$62.00</td>
</tr>
<tr>
<td>CLIN</td>
<td>Description</td>
<td>Unit Price</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------------------------------------</td>
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</tr>
<tr>
<td>X001GE</td>
<td>HHT-G Detachable Handle and Trigger</td>
<td>$ -</td>
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<tr>
<td>X001GF</td>
<td>HHT-G Rechargeable Battery (1EA)</td>
<td>$152.00</td>
</tr>
<tr>
<td>X001GG</td>
<td>HHT-G Single Battery Charger</td>
<td>$451.00</td>
</tr>
<tr>
<td>X001GH</td>
<td>HHT-G Single Battery Charger / Docking Station</td>
<td>$794.00</td>
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<tr>
<td>X001GI</td>
<td>HHT-G One pack of (1) tethered replacement styli</td>
<td>$18.00</td>
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<tr>
<td>X001GK</td>
<td>HHT-G Transparent screen protector</td>
<td>$26.00</td>
</tr>
<tr>
<td>X001GM</td>
<td>HHT-G Portable printer interface connection and cable</td>
<td>$12.00</td>
</tr>
<tr>
<td>X001GN</td>
<td>HHT-G Disable all wireless</td>
<td>$ -</td>
</tr>
<tr>
<td>X001GP</td>
<td>HHT-G Detachable CAC Reader</td>
<td>$286.00</td>
</tr>
<tr>
<td>X001GQ</td>
<td>HHT-G Bluetooth CAC Reader</td>
<td>$286.00</td>
</tr>
<tr>
<td>X001GR</td>
<td>HHT-G Detachable hand strap</td>
<td>$28.00</td>
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<tr>
<td>X001GS</td>
<td>HHT-G Carrying case</td>
<td>$94.00</td>
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**X003 Barcode Imagers for PC Input**

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>X003AA</td>
<td>Imager for PC Input - General Bar Code (Tethered)</td>
<td>$555.00</td>
</tr>
<tr>
<td>X003AB</td>
<td>Imager for PC Input - General Bar Code (Bluetooth)</td>
<td>$809.00</td>
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<tr>
<td>X003AC</td>
<td>Imager for PC Input - IUID Label Markings</td>
<td>$555.00</td>
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<tr>
<td>X003AD</td>
<td>Imager for PC Input - IUID Direct Part Markings</td>
<td>$821.00</td>
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</table>

**X005 Barcode Printers**

<table>
<thead>
<tr>
<th>CLIN</th>
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<th>Unit Price</th>
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<tbody>
<tr>
<td>X005AA</td>
<td>Portable/Wearable Bar Code Label Printer</td>
<td>$892.00</td>
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<tr>
<td>X005AB</td>
<td>Rechargeable Battery for Portable/Wearable BC Label Printer</td>
<td>$89.00</td>
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<tr>
<td>X005AC</td>
<td>Battery Charger for Portable/Wearable BC Label Printer</td>
<td>$65.00</td>
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<tr>
<td>X005AD</td>
<td>Carrying Case with Strap for Portable/Wearable BC Label Printer</td>
<td>$48.00</td>
</tr>
<tr>
<td>X005AE</td>
<td>4&quot; x 6 &quot; Label and Ribbon Set for Portable/Wearable BC Label Printer (6 rolls)</td>
<td>$66.00</td>
</tr>
<tr>
<td>X005BA</td>
<td>Stationary Bar Code Label Printer</td>
<td>$1,051.00</td>
</tr>
<tr>
<td>X005BB</td>
<td>Stationary Bar Code Label Printer, with Installed Take-Up Reel</td>
<td>$2,079.00</td>
</tr>
<tr>
<td>X005BC</td>
<td>Roll of 4&quot; by 6&quot; Synthetic Label Stock (8 inch diameter roll) for Stationary BC Label Printer (1 roll)</td>
<td>$37.00</td>
</tr>
<tr>
<td>X005BD</td>
<td>Roll of 4&quot; by 3&quot; Synthetic Label Stock (8 inch diameter roll) for Stationary BC Label Printer (1 roll)</td>
<td>$33.00</td>
</tr>
<tr>
<td>X005BE</td>
<td>Resin Ribbon for 4&quot; Width Labels for Stationary BC Label Printer (1 Roll)</td>
<td>$25.00</td>
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**X007 IUID Marking Equipment and Verifiers**

<table>
<thead>
<tr>
<th>CLIN</th>
<th>Description</th>
<th>Unit Price</th>
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<tbody>
<tr>
<td>X007AA</td>
<td>Laser Marking Equipment</td>
<td>$25,834.00</td>
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<tr>
<td>X007AB</td>
<td>Adhesive film stock (25 sheets)</td>
<td>$38.00</td>
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<tr>
<td>X007AC</td>
<td>Desktop Verifier for Labels</td>
<td>$6,246.00</td>
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**X009 Wireless Radio Frequency Data Communications**

<table>
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<th>CLIN</th>
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<tr>
<td>X009AA</td>
<td>Radio Frequency Access Point (indoor environment)</td>
<td>$670.00</td>
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<tr>
<td>X009AB</td>
<td>Radio Frequency Access Point (NEMA)</td>
<td>$2,960.00</td>
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<tr>
<td>CLIN</td>
<td>Description</td>
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<tr>
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<tr>
<td>X009AC</td>
<td>Radio Frequency Gateway</td>
<td>$8,153.00</td>
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<tr>
<td>X009AD</td>
<td>Indoor Office Access Point</td>
<td>$997.00</td>
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<td></td>
<td><strong>0011 Transit Cases and Transit Case Configuration</strong></td>
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<tr>
<td>X011AA</td>
<td>Transit Case Configuration, Small Arms Room Kit</td>
<td>$17,778.00</td>
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<tr>
<td></td>
<td><strong>X013 Software</strong></td>
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<tr>
<td>X013AA</td>
<td>Bar Code Label Design and Printing Software</td>
<td>$435.00</td>
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<tr>
<td>X013AB</td>
<td>Small Arms Room Management Software</td>
<td>$5,556.00</td>
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<td></td>
<td><strong>X015 Expedited Delivery for Hardware and Software</strong></td>
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</tr>
<tr>
<td>X015AA</td>
<td>Expedited Delivery - CONUS</td>
<td>TBD</td>
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<tr>
<td>X015AB</td>
<td>Expedited Delivery - OCONUS</td>
<td>TBD</td>
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<tr>
<td></td>
<td><strong>X017 Technical Engineering Services (TES)</strong></td>
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</tr>
<tr>
<td>X017AA</td>
<td>Project Manager</td>
<td>$192.00</td>
</tr>
<tr>
<td>X017AB</td>
<td>Instructional Design and Development Specialist</td>
<td>$178.00</td>
</tr>
<tr>
<td>X017AC</td>
<td>Senior Programmer</td>
<td>$164.00</td>
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<tr>
<td>X017AD</td>
<td>Systems Analyst</td>
<td>$187.00</td>
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<tr>
<td>X017AE</td>
<td>Software Systems Engineer</td>
<td>$143.00</td>
</tr>
<tr>
<td>X017AF</td>
<td>Programmer/Analyst</td>
<td>$178.00</td>
</tr>
<tr>
<td>X017AG</td>
<td>Junior Programmer</td>
<td>$156.00</td>
</tr>
<tr>
<td>X017AH</td>
<td>Systems Engineer</td>
<td>$143.00</td>
</tr>
<tr>
<td>X017AJ</td>
<td>Data Comm/Network Specialist</td>
<td>$156.00</td>
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<tr>
<td>X017AK</td>
<td>RF Technical Radio Specialist</td>
<td>$143.00</td>
</tr>
<tr>
<td>X017AM</td>
<td>Technical Training Specialist</td>
<td>$150.00</td>
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<tr>
<td>X017AN</td>
<td>Technical Writer</td>
<td>$113.00</td>
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