

CTRL Product Warranty Information:

Products manufactured by CTRL Systems, Inc. ("CTRL") are warranted for one year from date of purchase from CTRL or an authorized distributor/dealer representative (the "Warranty Period") to be free of defects in materials and workmanship and to conform to CTRL's written specifications.

At CTRL's option, any such defective or nonconforming product for which prompt written notice of defect is given to CTRL during the Warranty Period will be repaired or replaced. Such repair or replacement will be at no charge to the customer if the defective or nonconforming product is delivered to CTRL or an authorized service center, prepaid, together with proof and date of purchase. Prior to return of a defective or nonconforming product, customer must obtain approval from CTRL Systems, Inc., 1004 Littlestown Pike, Suite H, Westminster, MD 21157.

If CTRL determines, in its sole and absolute discretion, that a product for which warranty service is claimed, is not defective or nonconforming, the customer shall pay CTRL's cost of handling, inspecting, testing and transportation. CTRL may use either new, remanufactured, reconditioned, refurbished or functionally equivalent products or parts in the furnishing of repairs or replacements under this limited warranty. If product is repaired or replaced as provided herein the product is warranted for the remainder of the original Warranty Period.

This warranty excludes any other defects or non-conformities of any nature whatsoever, including limitation, any defect due to normal wear, abuse, misuse, negligence, accident, shipping damage, improper storage or failure to use the product in accordance with instructions. This warranty is void in the event of unauthorized repair or modification. This warranty also excludes third-party products not manufactured, but sold to the customer, by CTRL or an authorized distributor/dealer/representative; however, to the extent permitted, CTRL hereby assigns to customer any warranties given to CTRL by such third-party vendor.

Except to the extent precluded by applicable law, THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CUSTOMER'S SOLE AND EXCLUSIVE REMEDY SHALL BE CTRL'S OBLIGATION TO REPAIR OR REPLACE AS SET FORTH ABOVE. IN NO EVENT WILL CTRL BE LIABLE UNDER ANY CAUSE OF ACTION OR CLAIM OF WHATEVER NATURE, REGARDLESS OF WHETHER CHARACTERIZED AS TORT, NEGLIGENCE, CONTRACT, WARRANTY, STRICT LIABILITY OR OTHERWISE, FOR ANY LOSS OF PROFITS OR OTHER ECONOMIC LOSS, OR ANY OTHER INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES. IN NO EVENT SHALL CTRL'S DIRECT DAMAGES EXCEED THE COST OF THE PARTICULAR PRODUCT ALLEGED BY THE CUSTOMER TO BE DEFECTIVE.

This warranty shall be governed by the laws of the State of Maryland, U.S.A.

PowerBeam 300 Operator's Guide

What is the PowerBeam 300?

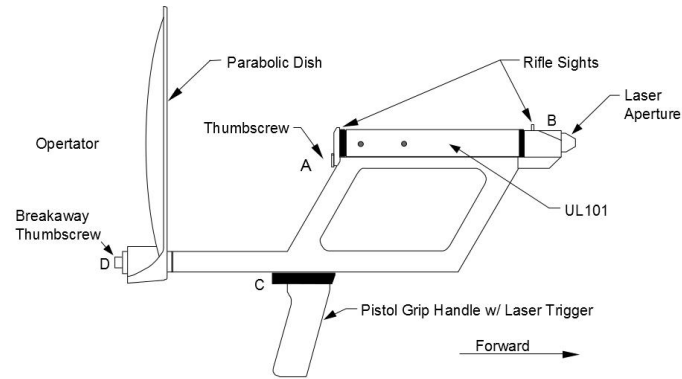
The PowerBeam 300 is a performance-enhancing accessory to CTRL's ultrasonic detection device, the CTRL UL101 (UL101). The PowerBeam 300 uses a parabolic dish to capture and focus the same ultrasound that the UL101 detects, but the ultrasound of the dish allow a user to detect ultrasound emissions from a significantly greater distance than when the UL101 is used alone. A co-axially mounted, trigger-activated laser pointer augments indication of the PowerBeam 300's aim point.



Setup Procedure:

Installing the batteries: (The batteries are necessary to power the alignment laser.)

- 1) Turn the **PowerBeam 300** frame onto it's side.
- 2) Open the battery door/slide in the handle by inserting a small coin at the top of the door and twisting, or by applying firm downward pressure. Remove the battery door by continuing to slide the door downwards and out of its channel.
- 3) Place two (2) "AAA" size batteries (Duracell MX2400, Eveready Energizer E92SBP, or equivalent) into the battery holder observing the polarity (+/- positions) requirements indicated.
- 4) Place the battery cover back into its channels and slide the cover up the handle until it bottoms out, and the end of the slide is flush with the rest of the handle.



EU DECLARATION OF CONFORMITY

The EU Directives covered by this Declaration:

IEC 60825-1/EN 60825-1 Safety of Laser Products – Part 1: Equipment Classification, requirements and user's guide

The Products Covered by this Declaration: 1) CTRL's PowerBeam 300

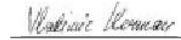
The Basis on which Conformity is being declared:

The product identified above complies with the requirements of the above EU Directives by meeting the following standards:

1) IEC 60825-1/EN 60825-1 Safety of Laser Products – Part 1: Equipment Classification, requirements and user's guide

The technical documentation required to demonstrate that the product meets the requirements of the Safety of Laser Products has been compiled by the signatory below, and is available for inspection by the relevant enforcement authorities. The CE mark was first applied in: 02.

Signed: 
Robert H. Roche
 Chief Executive Officer

Authority: 
Dr. Vladimir Herman
 Vice President, Director of R&D

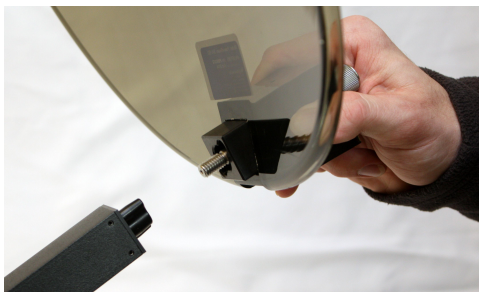
Date: _____

The attention of the specifier, purchaser, installer, or user is drawn to special measures and limitations to use, which must be observed when the product is taken into service to maintain compliance with the above directives. Details of these special measures and limitations to use are available upon request from:

Manufacturer	EU Agent	Your National Dealer
CTRL Systems, Inc 1004 Littlestown Pike, Suite H Westminster, MD 21157-3026 1 (410) 876-5676	Richard Chambers GmbH Dahlienweg 14 85551 Heimstetten, Germany +4 (989) 903-5638	
Contact: Dr. Vladimir Herman	Contact: Richard Chambers, President	Contact:

Mounting the dish:

- 1) Align the Breakaway Thumbscrew on the dishmount to the rear of the PowerBeam 300 frame.
- 2) Tighten the breakaway thumbscrew "D" until hand tight.
- 3) Verify proper mating with no gap between the dishmount and the frame.





CTRL Systems, Inc.
1004 Littlestown Pike, Suite H
Westminster, MD 21157 USA

CERTIFICATE OF CONFORMANCE

Products included in the Standard Model Category shall be denoted with the Model Names:

CTRL's Range Extending Device - PowerBeam 300

Products included in the Standard Model Category may be denoted with the Part Numbers:

PowerBeam 300 - CS.418291.100

This is to certify that the item(s) noted above are in compliance with the contract, drawings, standards, specifications and any other applicable documentation, which categorizes the purchased goods as the "Standard Model" equipment. All process certifications and/or governing reports, and (chemical & physical test reports) if applicable, are on file at this facility, and are available for review by our Customers, End Users, and/or by the appropriate Government Agencies, specified as such.

Signed: Robert H. Roche
Robert H. Roche
Chief Executive Officer

Authority: Vladimir Herman
Dr. Vladimir Herman
Vice President, Director of R&D

Date: November 28, 2001

The attention of the specifier, purchaser, installer, or user is drawn to special measures and limitations to use, which must be observed when the product is taken into service to maintain compliance with the above specifications. These details are disclosed in the "PowerBeam 300 User's Guide" and should be adhered to whenever the product is in service. Specific questions or concerns should be directed to:

Manufacturer: CTRL Systems, Inc.
1004 Littlestown Pike, Suite H
Westminster, MD 21157-3026 1 (410) 876-5676 Contact: Dr. Vladimir Herman

DISCLAIMER NOTE and WARNING:
Any tampering to this electronic device inclusive of dismantling, removal of parts and or electrical connections, with the exception of the Battery Slide for insertion or removal of the batteries, strictly null and voids this *Certificate of Conformance*.

Mounting the UL101 to the PowerBeam 300:

- 1) Back off thumbscrew at "A" so that the retention/alignment plate can clear its alignment pins and allow the retention/alignment plate to rotate downwards towards the PowerBeam 300 handle.
- 2) Place UL101 on its side as shown with UL101 speaker jack aligned with the headphone plug mounted on block "B".
- 3) Slide UL101 forward on plug until it "bottoms" on block "B" and clicks into place.
- 4) Rotate retention/alignment plate to its prior upright position and rotate thumbscrew clockwise sufficiently to capture conical surface of speaker mount into conical hole in plate. If resistance is felt, pin is probably not in proper alignment with hole in plate; back out, check alignment and start again.
- 5) Check for flush alignment between UL101 and side rails of PowerBeam 300. With flush alignment, continue to rotate thumbscrew until snug.
- 6) Insert headphone plug into headphone jack at the rear of the parabolic dish "C".

Disassembly Procedure:

To remove the UL101 from the PowerBeam 300 reverse the assembly procedure. Take care when removing the UL101 from the cradle to first move the UL101 towards the parabolic dish sufficiently to clear the headphone plug prior to lifting the UL101 from the cradle. Failure to follow this procedure can result in damage to the PowerBeam 300's headphone plug or to the UL101's headphone jack.

Use:

As with using the UL101 in normal scan mode, use of the PowerBeam 300 should start with the UL101's gain switch at full gain and the potentiometer at "1". To aid in acquisition, indoors or in low ambient light situations, use the laser pointer by squeezing the switch mounted in the handle. When using outdoors, use the rifle sights through the translucent parabolic dish. If necessary, adjust the potentiometer (up or down) to the lowest setting in which the item's characteristics can be heard with minimum background noise.

For more detailed information on the specific use of the UL101, please refer to the UL101 Operator's Manual.

General Safety Warnings:

Users of the PowerBeam 300 must be properly trained and follow all safety requirements and standards when working in any area with equipment under test. All warnings pertaining to the use of the UL101 must be observed.

The PowerBeam 300, as of November 2001, has NOT been designed, manufactured, or tested to intrinsically safe standards. Use of an intrinsically safe model of the UL101 in the PowerBeam 300 is NOT sufficient to insure intrinsically safe performance.

Laser Safety Warnings:

The laser pointer included with the PowerBeam 300 conforms to the international (IEC) designation of Class II. The power output of this class allows incidental contact with skin and eyes, but long-term contact (ocular: more than a second or two, skin: longer durations allowed) should be avoided. Where possible and practical, personnel not included in the testing and analysis being conducted should not be downrange of the PowerBeam 300. Care should also be taken to avoid beam contact with reflective surfaces that may result in beam deflections onto unintended targets.

Maintenance and Service:

The PowerBeam 300 has no user maintainable or serviceable parts other than laser battery replacement. All service or maintenance required must be referred to the CTRL Systems, Inc. Production Department for performance. Please call CTRL to obtain a Return Merchandise Authorization (RMA) and shipping instructions at 1(410) 876-5676. Please retain the shipping/storage case in which the PowerBeam 300 arrived for possible returns.

If the laser trigger in the pistol grip should become stuck, making it impossible to shut off the laser, please remove the batteries, taking care to insure that the laser does not target persons or reflective surfaces during battery removal. Then return to CTRL for service.

Use only alkaline batteries. Batteries should be removed if the PowerBeam 300 will not be used for extended periods.

Warranty:

Components of the PowerBeam 300 have a one (1) year warranty against defects in materials and workmanship (excluding batteries). Any defective item that is returned within this time showing signs of abuse, tampering, neglect or misuse will be repaired at CTRL. Normal time and materials costs will be charged at the customer's expense.

Training:

Please refer to the UL101 Training CD for background material on ultrasound and the use of the CTRL UL101. For any questions particular to the PowerBeam 300 not covered in this guide, please check our website (www.ctrlsys.com) for frequently asked questions (FAQs) or contact PowerBeam 300 Product Support via e-mail at productsupport@ctrlsys.com.

