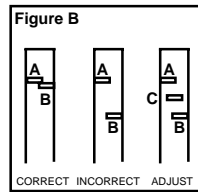
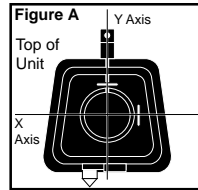


Calibration Check: Horizontal & Vertical

Checking Calibration - Horizontal

1. Choose a fairly level area to project the beam approximately 100'. A solid level surface such as a floor, tabletop, or desk is needed at one end of range to set up unit. A tripod can be used, however **the tripod head must be level**. The bulls'eye level on the BEAMER front handle can be used to level the unit and tripod head. At far end of range a vertical surface such as a wall or post is needed as a "target" for checking the beam.
A rod, pole, or 2" X 4" will also work.
2. Set unit upright so "X" Axis (Figure A) is pointing at target. Power up unit and allow to self level.
3. Use Beam Right or Left button to turn Rotor Head to put beam on target. Mark center of beam where it strikes target and call this mark "A" (Figure B).
4. Rotate entire unit 180° so the "X" Axis is again aligned with target, but in opposite direction. If using tripod, loosen mounting bolt to turn unit, then retighten being careful not to disturb tripod. Allow unit to self level, again move beam to aim at target, and mark height of beam center. Call this mark "B" (Figure B).
5. If marks "A" and "B" are at the same height or within 1/8" (3.2mm) of each other, calibration of the "X" axis is correct and no adjustment is necessary. Repeat the same procedure for the "Y" Axis (Figure A). If the marks are not the same, contact your local service center.



Checking Calibration - Vertical

1. Setup unit in vertical (lay down) position
2. Power up unit and allow to self-level.
3. Set rotor speed to zero rpm.
4. Drop a string and plumb bob 5 feet away from unit. It should be in line with the rotating beam.
5. Use Azimuth switch pad to align beam so it intercepts the bottom of the string.
6. With the unit level and the beam hitting the bottom of the string, slowly rotate the beam using the rotate beam right/left switch pad so it moves up the string. If the beam stays on the string all the way up, vertical calibration is correct. If not, call your local AGL service center.

SAFETY

As required by Federal Regulation

Use:
This manual explains the use of all controls, adjustments, and operating procedures to be performed by the user. **CAUTION:** the use of controls or adjustments, or performance of procedures other than those specified herein, may result in hazardous radiation (light energy) exposure.

Service:
To avoid possible exposure to radiation in excess of acceptable emission limits, all repairs requiring the opening of the sealed laser case must be performed by the manufacturer or its authorized representative.

Maximum Radiant Power: Less than 3.5 mW.

Maintenance:
The Beamer 5 conforms to 21CFR, parts 1000 and 1040 laser products. No schedule of maintenance is required to keep it in compliance.
Safety Notices and Devices



NOTE
Laser warning signs are included in the instrument case for posting on the jobsite.

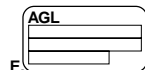
SAFETY LABEL PLACEMENT

- A. Aperture exposure label
- B. BRH Interlock Warning Label
- C. Power Classification Label (right side, bottom)
- D. BRH Compliance Label (back, bottom)
- E. Serial Number Tag (back, bottom)

AVOID EXPOSURE: Laser light is emitted from this aperture.

DANGER: Laser light when open. Avoid exposure to beam. Do not stare into beam.

This product conforms to the amended USA standards of 21CFR, Parts 1000 & 1040, Laser Products, eff. Sept. 19, 1995



RADIO TRANSMITTER

FCC ID NR7BM5

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

NOTICE FOR CANADA: This Class A digital apparatus meets all requirements of Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Class A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

AGL

CONSTRUCTION LASERS & MACHINE CONTROL SYSTEMS

Beamer 5

MULTIPURPOSE LASER

Operator's Manual



Specifications

Beamer 5

- Beam: 3.5 milliwatts, 635 nM
- Beam Accuracy: $\pm 1/16"$ @ 100'
- SL Range: $\pm 5.7^\circ = \pm 10\%$
- Slope Range (both axis): $\pm 10\%$
- Operating Temperature: $-10^\circ\text{ F } (-18^\circ\text{ C})$ to $120^\circ\text{ F } (50^\circ\text{ C})$
- Waterproof: Yes, nitrogen purged
- Rotor Speed-selectable: 0, 100, 200 or 325 rpm
- Control Panel: Tactile feedback

- Dimensions: 10.5" H x 6.5" W x 6.125" D
- Weight: 12.7 lbs.
- Internal Battery: 25 hours

Remote Transmitter

- Registration #: Radio "FCC ID NR7BM5"
- Battery: 9 volt alkaline
- Battery/Operation Indicator: Green LED on front panel
- Dimensions: 5" H x 1.875" W x 1" D
- Weight: 5 oz.

General Information

Features

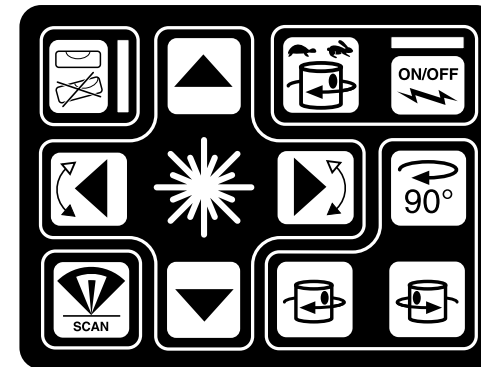
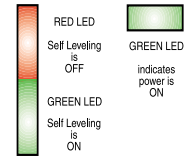
1. Enclosed Rotor Housing for protection from the weather conditions on your jobsite.
2. Large, easy to read control panel.
3. Built-in handle for easy carrying.
4. Rough level vial
5. Adjustable feet for quick leveling.
6. Electronic Slope Control
7. Scan Modes
8. RF Remote Control
9. Rugged Aluminum Housing
10. On-board battery makes the unit operational for approx. 25 hours.
11. Mounting Base
5/8" x 11 and domed.



General Information

Control Panel

1. Power ON / OFF
2. Rotor Speed - Four Settings: 0, 100, 200, and 325 rpm's.
3. Self Leveling Control & Indicator - Preset: ON / indicator green. To select manual for sloped operation, press self-leveling control switch pad to turn self-leveling OFF. Self-leveling indicator turns red.

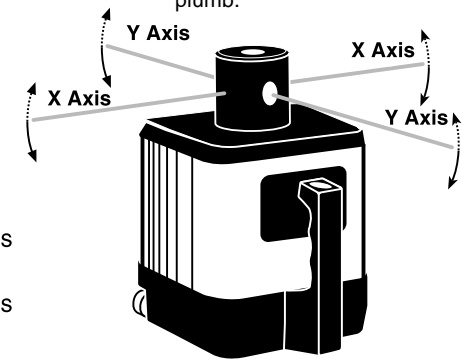


- 4 & 5. Rotate Beam Left or Right.
6. Quick Beam Movement - Press keypad to quickly move beam approx. 90° from present position.

STOP

WARNING:
This control does NOT produce a precise 90° movement. Do NOT use for 90° reference.

7. Scan Modes - Four preset scan widths.
- 8 & 9. Slope Control Y Axis - Preset: OFF in horizontal or vertical. To activate "Y AXIS slope controls, turn self-leveling OFF.
- 10 & 11. Slope Control X Axis - Preset: OFF in horizontal or vertical. To activate "X AXIS slope controls, turn self-leveling OFF. Vertical Position - Preset: ON Indicators green. Press switch pad to move beam right or left for fine alignment. Self-leveling keeps beam plumb.



1. ON/OFF Power - ON / OFF
2. Rotor Speed
3. Self Leveling - ON / OFF
4. Rotate Beam Right
5. Rotate Beam Left
6. Quick Beam Movement
7. Scan Modes
8. Slope - Y Axis
9. Slope - Y Axis
10. Slope / Azimuth - X Axis
11. Slope / Azimuth - X Axis