in a CQBOX

Mobile Active Shooter And Decision-Making Reactive Targets System

LASER AMMO
TRAINING TECHNOLOGIES

General:

The Laser Ammo CQB in a Box is a portable, human-size reactive target system. It is the ideal training platform to improve the employment of firearms skills in a tactical environment without needing to go to a range or use live ammunition.

The CQB in a Box provides the ability for a safe non-live fire 3D tactical training, targeting everything from basic room clearing to more advanced CQB training and even active shooter training.

The CQB in a box (V2) allows the user to wirelessly connect the targets to a windows computer for multiple training options.

Your CQB in a Box includes:

- 3 Humanoid sized silhouette targets
- 3 Adjustable tripods
- 9 Electronic target sensors
- 1 Controller sensor
- 1 USB dongle (V2 only)
- 9 Reflective target cards
- 1 Carry bag
- 10 x 3 AAA Batteries
- 38 x M4 Screws, 38 Thumb Nuts & 1 Driver

⚠ SAFETY PRECAUTIONS:

- This product is powered by 1.5V-AAA consumer grade alkaline non-rechargeable batteries.
- Do not use any other battery type.
- Do not mix different battery types. Every device should be loaded with three batteries of the same type.

Please read the user guide before using the CQB targets.

I. Physical Target Installation

A. Installing tripods on silhouettes.

The silhouette targets are two sided.

Side A: Pre-printed with white hit zones. (Pic 1)
Side B: Colored, to be used with the included set of 3 Reflective Targets. (Pic 1)
The silhouette comes pre-assembled with the mounting plate in the middle of side B.
If user chooses to use the reflective targets, re mount the mounting plate on side A.

To switch the mounting plate between side B and A, lay the Silhouette target on a flat surface, remove the 4 Phillips Screws that are holding it to the backing plate, and re-attach to the opposite side. The mounting plate comes from the factory on the middle position (recommended). The user can also choose to use the top or bottom position for height adjustment.

Picture 1

Side A Side B

Mounting plate (Side B) Backing plate (Side A)

## B. Preparing and installing the electronic sensor:

1. Open the sensor.
2. Remove 4 Phillips head screws that hold battery cover on the sensor.
3. Install 3 AAA batteries (included)
4. Power on unit to test.
5. Reinstall the battery cover.

TIP: In the CQB V2 each sensor comes preprogrammed and numbered 1-9. It is very important to install the sensors # 1-3, 4-6, 7-9 on each silhouette target (follow table 1).

| Target #	Sensor location		
	Head	Torso	Pelvis
1	1	2	3
2	4	5	6
3	7	8	9

6. Match up the 4 pre-drilled holes of the sensor (the sensor will mount upside down with the top of the unit facing down).

Picture 2
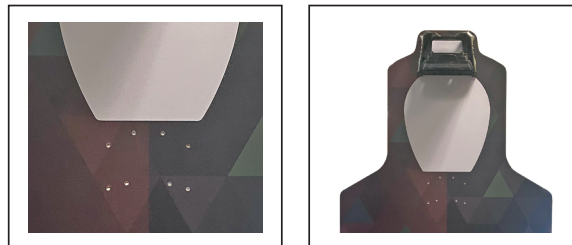
7. If choosing to use the reflective target (Side B) then line up the reflective target cards on the dark side of silhouette with pre-drilled holes, place sensor on top and match up holes. (Pic 3)
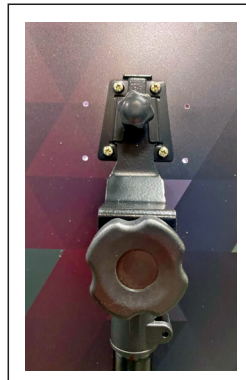

Picture 3
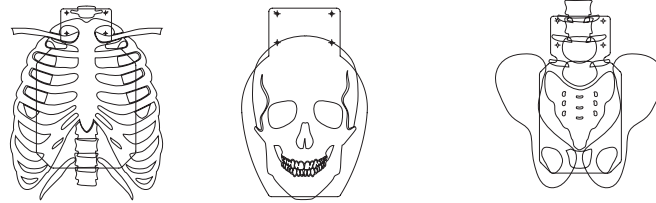
Reflective targets

8. Attach using the included four M4 Allen key screws and bolts.
9. Hand tighten with Allen key. DO NOT OVERTIGHTEN.
10. Repeat for other sensors.
11. Once all electronic sensors are mounted, you can attach to tripod and adjust the height as needed. (Pic 4)

Picture 4

Tripod attachment

II. Software Installation (for CQB V2 Only)

TIP: When using the CQB V1 (without the software), please refer to the IMTTS user guide to learn how to control the different programs with the system controller.

A. General:

The CQB comes with downloadable software (CQB Terminal) which allows the trainer multiple training options with regards to target colors and/or the number of hits required to neutralize a sensor and/or target.

The CQB sensors come pre-programmed from the factory. When the sensors first activate, they will light up GREEN in color, and the target will be "neutralized" (all lights turn off) with one shot to the head or two shots to the torso or two shots to the pelvis. The initial set up allows the drill to start automatically after 30 sec.

The user can start and stop drills with the computer, the included controller, or by allowing for automatic start.

Tip: The software can connect up to 20 sensors, or a total of 6 targets.

B. Software installation

1. Go to LaserAmmo.com website and download the CQB terminal software from: https://laserammo.com/store/Tactical-Training/Tactical-Training/CQB-IN-A-BOX and save it on a folder or desktop.

2. Insert the USB dongle to a windows computer. Wait to hear the sound of the connection of the USB.

3. Double click on the CQB Terminal to open the software

C. System Setup: Connect the sensors to your windows computer.

1. If USB dongle is properly connected the system will show "Dongle Connected"

2. Turn on all the sensors. They will show green indicator lights.

3. Test system connectivity by pressing the "Test On" button.
   All sensors will automatically connect, and the A light will flash green. The connected sensors number will show up in the software page.

Tip: Check that all the sensors that were turned ON show up in the Connected Sensor box on your computers screen listed by their sensor ID numbers (01 through 09).

Note: only the sensors physically turned ON will show up in the Connected Sensor box.

4. Turn off the test mode.
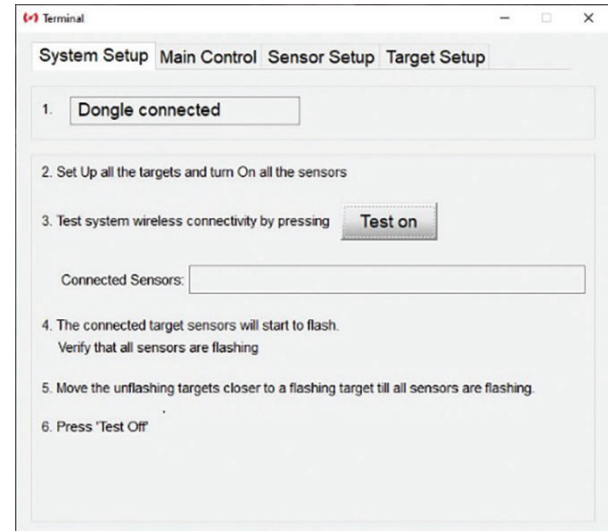
D. Sensor Setup – set up the ID for each sensor.

TIP: The sensors are set up at the factory with ID 01-09. **If you do not wish to change the factory ID set up, move to the Target Setup tab.**

Use the ID Setup tab if you want to change the factory set up, to add more targets, or if a unit was damaged and replaced. To set the sensor ID:

1. Turn on the sensor (make sure all other sensors are turned off)

2. Press the PROG button on the sensor for 3 sec until the B light green begins to flash.
The current ID will be shown automatically at the window.

3. Select the desired ID number from the drop box.
TIP: Do not give the same ID number to more than 1 sensor.

4. Press Set ID. The message box will show if the sensor was set successfully for the number chosen.
TIP: if the Set ID was unsuccessful, turn off the sensor and start from the beginning.

5. Turn off the sensor, and repeat the same procedures with the next sensor you would like to change the factory ID.
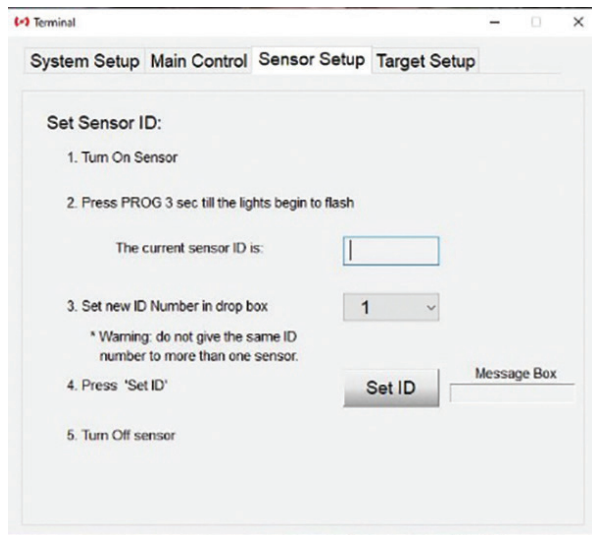
E. Target Setup – Program the sensors for number of shots and color preferences.

1. Turn on the sensors you are setting up, one CQB target at a time. Make sure all other sensors are turned off.   You can choose between 1-3 sensors.

2. Press the Find Sensors button. The C light on the sensors that were found will turn ON & light up GREEN color.

3. Program the sensor by choosing the sensor for the head (#s 1, 4, or 7), torso (#s 2, 5, or 8) or pelvis (#s 3, 6, or 9) and setting the amount of hits you want to neutralize each (from 1 to 5 hits) and also choose the LED color for each sensor (5 different colors are available, or random mode, or nothing at all).

TIP: for a "No Shoot Target" use 1 shot kill to all sensors.

Tip: After each sensor set up click on the "Light Sensor" button to confirm the correct sensors were programmed.

4. The trainer has the option to automatically restart the target with a timer delay (between 3sec- 60 sec).

5. Click on "Set Target" to finalize the preferences chosen and set the sensors.

6. Repeat the process with the other CQB targets and sensors to set your preferences for the remaining sensors & CQB targets.

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## F. Main Control: Scenario Start and Stop with after action review.

The CQB can be controlled via the wireless controller or via Windows computer in the main control tab.

Use the Start button to activate the targets and start the timer.

1. The event log will show the time (24HR), the event (Start / Stop, Hit or Kill), which sensor was hit (# and color), the elapsed time and the total time of the drill.

2. Use the stop button to stop the timer and freeze the target.

   This will allow the trainer to stop and evaluate the engagement data, at any given time.

3. Use the reset button to turn all of the targets off.
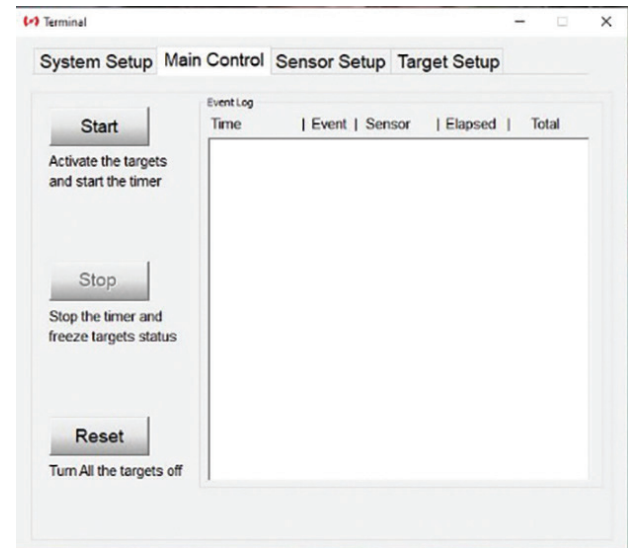
G. Setting up the controller

The user can decide to operate the CQB system using a Windows computer or the wireless controller (without the computer) to start and stop engagements.

In order to use the controller, gently screw on the antenna and install three AAA alkaline batteries, position the antenna upright as in the picture below and place on a reasonably flat surface from which the display is clearly visible. A clear line of sight is recommended between the controller and the CQB targets.

ADDITIONAL INSTRUCTIONS:

1. This system is intended for use with up to 9 targets working together. Using more than 9 targets might affect the system's reliability and reaction time.

2. Some environmental settings may affect the system's reliability. For example: placing devices too far apart, having obstacles between any two targets or placing any targets too close to the floor.

3. Direct sunlight or other very bright light sources might affect the targets as well.

4. Low battery power is indicated by weak or different light color from indication LED. Buzzer and other indication lights will also be weaker as battery power drops.

5. Place the targets away from white walls.

6. If one shot activates more than one sensor, move the targets further away from each other or place one target in front of the other.

7. Wireless connection can be affected if targets are too far from each other or if there is a divider like a brick or metal wall between the targets.

8. Due to proprietary technology, the CQB targets will be activated only by Laser Ammo lasers (both red and IR). Most other brand lasers will NOT activate the CQB targets, with the exclusion of CoolFire and Dvorak lasers.

CERTIFICATIONS AND COMPLIANCE: $C\epsilon$

For System controller: *FCC ID: 2AHUUIMTTS2*   *IC: 21384-IMTTS2*

For I-MTTS target: *FCC ID: 2AHUUIMTTS1*   *IC: 21384-IMTTS1*

(EN) This device complies with Part 15 of the FCC Rules and with Industry Canada license exempt RSS standard(s).

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

(FR) Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée sous les deux conditions suivantes :
(1) l'appareil ne peut pas produire de brouillage, et
(2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en comprom-
ettre le fonctionnement.

(EN) **NOTE**: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the device.
- Increase the separation between devices.
- Consult the dealer or an experienced radio technician for help.

(FR) Cet équipement a été testé et jugé conforme aux limites s'appliquant à un appareil numérique de classe B, conformément à la Partie 15 des réglementations de la FCC. Ces limites ont été élaborées pour offrir une protection raisonnable contre les interferences nuisibles dans une installation résidentille.
Cet équipement génère, utilise et peut émettre de l'énergie de fréquence radio et, s'il n'est pas installé et utilisé conformément aux instructions du fabricant, peut provoquer des interférences dangereuses pour les communications radio. Toutefois, rien ne garantit l'absence d'interférences dans une installation particuliére. Si cet équipement provoque des interférences nuisibles au niveau de la réception radio ou television, ce qui peut étre determiné par la mise hors, puis sous tension de l'équipment, l'utilisateur encouragé à essayer de corriger les interferences en prenant les mesures suivantes :
- Réorientation ou déplac ement de l'antenne réceptrice.
- Augmentation de la distance qui sépare l'équipement et le récepteur.
- Consultation du revendeur ou d'un technician radio/television expérimenté pour obtenir de l'aide.

⚠️ **Warning**: Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Laser Ammo Ltd.) could void the user's authority to operate the equipment.

Warranty:

Laser Ammo USA Inc warrants that this product shall be free from material defects and defects in workmanship for a period of one (1) year from the date of the purchaser's receipt of the product.

Notice of any warranty claim must be received by Laser Ammo USA Inc., in writing, prior to the expiration of the warranty period.

Laser Ammo reserves the right to inspect the product before honoring the warranty. Laser Ammo's warranty is limited solely to the above and applies only for the period set forth. Laser Ammo will not be liable for any loss, damage, direct, incidental or consequential damages of any kind, whether based upon warranty, contract, negligence, or strict liability, or arising in connection with the sale or use of the product by the user or any third party. Laser Ammo's warranty does not cover any damage to the product that results from improper installation, accident, abuse, misuse, natural disaster, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, or any unauthorized disassembly, repair, or modification. This limited warranty does not apply to any product on which the original identification information has been altered, obliterated or removed. Laser Ammo will, at its sole option, either repair or replace any part of the product that proves defective by reason of improper workmanship or materials. In all events, Laser Ammo's maximum liability to the purchaser related to any warranty claim or defect with respect to the product shall not exceed the contract price for the specific product claimed to be defective or unsuitable, or alleged to have been the cause of any damage to the purchaser or any third party. The foregoing is in lieu of all other warranties, oral, expressed or implied, including, but not limited to, any implied warranties of fitness for a particular purpose. The provisions of this section shall be applicable to both implied warranties (if any) and expressed warranties.

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