



READ MANUAL IN ITS ENTIRETY BEFORE STORING OR USING YOUR DEVICE.



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The Byrna™ HD/SD launcher is a disruptive new non-lethal sport device. Its patented ergonomic design, compact size, five-round magazine, laser sight adaptability, and point and shoot capabilities make the Byrna™ a truly effective and accurate sporting device. It offers many of the same features as today's popular handguns, but with one critical difference – it fires non-lethal rounds. The Byrna™ delivers a chemical payload that causes an immediate burning sensation in the attacker's eyes and respiratory system (hence the name “bur- nah”) thereby Deterring, Disorienting, Disrupting and Delaying an attacker, providing time to escape or call for assistance.

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## REGULATION AND PERMITTED USE

The Byrna HD/SD is not a “firearm”. States and municipalities may regulate possession and use of the Byrna launcher and Byrna projectiles. Possession of compressed CO<sub>2</sub> cartridges also is regulated in certain venues, including airports. Always check applicable laws and regulations before transporting or using your Byrna launcher.

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**THE USER ASSUMES ALL RESPONSIBILITY FOR ANY UNLAWFUL POSSESSION OR USE, AND FOR VIOLATION OF ANY STATE OR LOCAL LAW OR ORDINANCE.**

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## DISCLAIMER AND ASSUMPTION OF LIABILITY

Seek legal advice or ask your local police department if you are unsure of the application of any law or regulation. If you are not willing to assume this liability do not use this device.

Misuse of the Byrna may cause serious injury to a person or property and subject the user to criminal and civil liability. SDI&Defender will not be liable for any injury, loss of life, or property damage resulting from the use of the Byrna, whether resulting from its intentional, reckless, negligent, or accidental discharge.

## WARNING

May cause serious injury or death! The Byrna HD/SD is not a toy. Keep out of reach of children! Keep safety on when not in use! Take all reasonable precautions you would take with a firearm to prevent unintentional injury to person or property.

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**THIS MANUAL MUST BE READ CAREFULLY IN ITS ENTIRETY BEFORE STORING OR USING YOUR BYRNA, ANY BYRNA SELF-DEFENSE PROJECTILES, OR ANY CO<sub>2</sub> CARTRIDGES INTENDED FOR USE IN YOUR BYRNA.**

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# USING YOUR BYRNA SAFELY

## WARNING

- Careless use may result in serious injury or death.
- The Byrna launcher is not a toy and should never be left without the safety on or where children can access it.
- Never point a Byrna launcher at any person or animal except.
- Discharging a projectile to impact the head, neck, or spine may cause serious or permanent injury (including death).
- Protective eyewear should always be worn by all persons in the area, and precautions should be taken to ensure that rounds don't leave the target area and don't endanger any nearby person, animal, or property, including on adjoining lots and in any public walkway or road.
- Do not leave the CO<sub>2</sub> cartridge, or a Byrna launcher with a CO<sub>2</sub> cartridge installed, in temperatures over 48° C.
- Do not attempt any repair of your Byrna HD/SD. In case of malfunctions contact the Defender customer service department or visit [www.defender-byrna.eu](http://www.defender-byrna.eu)
- No product is 100% effective. The effects of the Byrna self-defense rounds and the period of effectiveness may vary from person to person.
- In the event you must discharge your Byrna in self-defense, get out of harm's way as quickly as possible.
- Store device in a secure, dry location where temperatures do not exceed 48° C or fall below -17° C.

# IMPORTANT SAFETY CONSIDERATIONS

- Treat every Byrna HD/SD device as if it were loaded.
- Never look into the barrel of a Personal Safety Device.
- Keep your finger off the trigger until ready to shoot.
- Keep the trigger safety engaged until ready to shoot.
- Do not use the Byrna with projectiles or CO<sub>2</sub> cartridges sold by any other company. They may not work properly, may damage your Byrna, or may become permanently lodged in your Byrna. This may cause injury to you or persons or property in the area. Improper use in conjunction with non-Byrna products may void your warranty.
- Never use a Byrna launcher for target practice without first taking proper precautions to protect nearby persons, animals, and property from injury either directly or from ricocheting rounds.
- Always remove projectiles and CO<sub>2</sub> before attempting any troubleshooting.
- Discharge of the device, even without a projectile can cause serious injury

# GET TO KNOW YOUR BYRNA HD

FAMILIARIZE YOURSELF WITH THE CONTROLS AND FEATURES OF THE DEVICE.



# SAFETY OPERATION

Device is in **SAFE** mode when lever is in up position. To engage safety rotate lever to up-most position.



Device is in **FIRE** mode when lever is in down position. To disengage safety rotate lever to down-most position.



## INSTALLING CO<sub>2</sub> CARTRIDGE

**⚠WARNING** When the CO<sub>2</sub> pressure falls below a certain pressure the Byrna will cease firing. Always remove the CO<sub>2</sub> cartridge after firing or when empty. If the Byrna is exposed to an increase in temperature, the pressure might increase enough for the Byrna to be able to regain the ability to fire.

**⚠WARNING** Use only Byrna authorized CO<sub>2</sub> cartridges in this device.

### INSTALLING CO<sub>2</sub> CARTRIDGE

1. Remove CO<sub>2</sub> cap slowly using cap tool (built into magazine base).
2. Insert new, unused CO<sub>2</sub> cartridge into CO<sub>2</sub> chamber.
3. Replace cap, tightening securely using cap tool. Cap should sit flush with body. **DO NOT OVER TIGHTEN.**

**THE CO<sub>2</sub> CARTRIDGE IS ONLY PUNCTURED UPON THE FIRST TRIGGER PULL. NEVER STORE THE DEVICE ONCE THE CO<sub>2</sub> CARTRIDGE HAS BEEN PUNCTURED.**

Do not leave a punctured CO<sub>2</sub> cartridge in the device as this may cause premature wear of the CO<sub>2</sub> seal, leading to leaking of CO<sub>2</sub> gas. However, device may be stored with CO<sub>2</sub> cartridge installed and ready for puncture.



## REMOVING CO<sub>2</sub> CARTRIDGE

**⚠WARNING** Before installing or removing a CO<sub>2</sub> cartridge make certain the device is in SAFE mode, that the magazine is removed, and that no projectile is in the breach.

**⚠WARNING** Before attempting to remove the CO<sub>2</sub> cartridge from device, point in a safe direction and slowly unscrew the CO<sub>2</sub> cap using the cap tool built into the magazine.

### REMOVING CO<sub>2</sub> CARTRIDGE

Remove CO<sub>2</sub> cap slowly using cap tool (built into magazine base).

**NOTE:** When CO<sub>2</sub> gas is still in the device, unscrewing the CO<sub>2</sub> cap will vent the system. In such cases it is normal to hear gas escaping. Cap may be difficult to unscrew when gas remains.

**CAREFULLY BLEED OFF ANY REMAINING GAS BEFORE REMOVING CAP.**



# BYRNA PROJECTILES

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## BYRNA INERT PROJECTILES

Byrna Inert Projectiles do not contain active ingredients.



## BYRNA TRAINING PROJECTILES

Byrna Training Projectiles do not contain any active ingredients.



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Protective eyewear should always be worn by all persons in the area, and precautions should be taken to ensure that rounds don't leave the target area and don't endanger any nearby person, animal, or property, including on adjoining lots and in any public walkway or road.

## LOADING & UNLOADING THE MAGAZINE

### MAGAZINE LOADING:

Hold the magazine with the ball retaining bar facing away from you. Insert projectiles into the top opening of the magazine. Only slight pressure is required to push the projectiles past the ball retainer bar.

Repeat Step 1 until the desired number of projectiles have been inserted, up to the maximum capacity noted on your magazine.

### MAGAZINE UNLOADING:

While holding your hand over the top opening of the magazine in order to receive the exiting projectile, gently pull down on the ball retainer bar.

**CAUTION!** Projectiles are under spring pressure and may exit with enough force to rupture if care is not taken to receive the exiting projectile.



## DESIGNATING PAYLOAD

### USING THE MAGAZINE BASE TO DESIGNATE PAYLOAD:

Your Byrna includes optional magazine base plates which feature 2 orange-colored indicators. These may be used to indicate which magazines are loaded with Inert projectiles. Use magazines with solid black base plates to indicate magazines loaded with training rounds.



LOADED WITH SELF DEFENSE PROJECTILES

LOADED WITH TRAINING ROUND

### CHANGING THE COLORED BASEPLATE INDICATORS

**STEP 1** First, be certain to wear appropriate eye protection. Next, follow the instructions on page 12 to make certain the magazine is unloaded.

**STEP 2** Align a baseplate indicator with the tabs.

**STEP 3** Insert the baseplate indicator into the tabs.

**STEP 4** Slowly slide the baseplate off as shown, taking care that the installed indicator is under spring pressure.

**STEP 5** Install the baseplate indicator of your choice.



STEP 2



STEP 3



STEP 4



STEP 5

# INSTALLING & REMOVING THE MAGAZINE

## INSTALLING THE MAGAZINE:

1. Insure the breach is empty (see next section on Breach Indicator).
2. Align the top of the magazine with the magazine well making sure the CO<sub>2</sub> cap tool is facing the rear of the device.
3. Firmly insert the magazine into the magazine well of the device, pushing upward until you hear a click and the magazine locks in place.



MAGAZINE INSTALLED

## REMOVING THE MAGAZINE:

1. Position your hand under the magazine in order to receive it upon exit from the device.
2. Firmly depress the magazine release button.
3. If applicable, depress breach indicator to clear chamber.





# BREACH INDICATOR

## USING THE BREACH INDICATOR:

The Byrna HD/SD is equipped with a breach indicator that allows the user to quickly identify whether a projectile is currently loaded into the breach of the device. The instructions below illustrate how to recognize the current breach status and how to clear the breach of a projectile when desired.



Breach contains a projectile when indicator is in the raised position.



Breach does not contain a projectile when indicator is in the down position.

## HOW TO CLEAR A LOADED BREACH:

1. Place the device in SAFE mode.
2. Remove the magazine from the device.
3. Hold your hand under the magazine well in order to receive the exiting projectile.
4. Press the breach indicator button downward to release the projectile.



Press down on button to release projectile.

# ACTIVATING THE CO2 CARTRIDGE

## ACTIVATING THE CO<sub>2</sub> (WITHOUT FIRING):

While device is still in SAFE mode, firmly and fully pull the trigger to the rearmost position. The CO<sub>2</sub> will be activated without firing a projectile.



**⚠️ WARNING** Before installing or removing a CO<sub>2</sub> make certain the device is in SAFE mode, that the magazine is removed, and no projectile is in the breach.

**⚠️ WARNING** Before attempting to remove the CO<sub>2</sub> from device, point in a safe direction and unscrew the CO<sub>2</sub> cap.

## ACTIVATING THE CO<sub>2</sub> (IMMEDIATE FIRE):

While device is in FIRE mode and pointed at intended target, firmly and fully pull the trigger to the rearmost position. The CO<sub>2</sub> will be activated and a projectile will be fired.



**⚠️ WARNING** Use only Byrna authorized CO<sub>2</sub> cartridges in this device.

**⚠️ WARNING** When the CO<sub>2</sub> pressure falls below a certain pressure the Byrna will cease firing, always remove the CO<sub>2</sub> cartridge after firing or when empty. If the Byrna is exposed to an increase in temperature, the pressure might increase enough for the Byrna to be able to regain the ability to fire.

# OPERATIONAL REVIEW

## ACTIVATE CO<sub>2</sub> WITHOUT FIRING

### ACTIVATING THE CO<sub>2</sub> (WITHOUT FIRING):

Carefully read and understand all warnings and instructions contained herein before attempting to operate the device.

### OPERATING SUMMARY

1. Place the device into SAFE mode (see page 7).
2. Install a CO<sub>2</sub> cartridge (see page 8).
3. Load the magazine with the desired type and number of projectiles (see page 12).
4. Insert the magazine into the device (see page 14).
5. Activate CO<sub>2</sub> cartridge by pulling trigger fully rearward. (See page 18).

### WHEN READY TO DEPLOY:

6. Point device at the intended target.
7. While pointed at intended target place device in FIRE mode.
8. Pull trigger to fire.

1.



2.



3.



4.



5.



6.



7.



8.



# OPERATIONAL REVIEW

## ACTIVATE WITH IMMEDIATE FIRE

### ACTIVATING THE CO<sub>2</sub> (WITH IMMEDIATE FIRING):

Carefully read and understand all warnings and instructions contained herein before attempting to operate the device.

### OPERATING SUMMARY

1. Place the device into SAFE mode (see page 7).
2. Install a CO<sub>2</sub> cartridge (see page 8).
3. Load the magazine with the desired type and number of projectiles (see page 12).
4. Insert the magazine into the device (see page 14).
5. Point device at the intended target.
6. While pointed at intended target place device in FIRE mode.
7. Pull trigger to activate CO<sub>2</sub> cartridge and fire a projectile

1.



2.



3.



4.



5.



6.



7.



## HOW TO HOLD YOUR BYRNA HD

A proper hold helps optimize reliability, accuracy, and comfort.

1. Align Byrna HD/SD between the thumb and trigger-finger as shown.
2. Only the first joint of your trigger-finger should be inserted into the trigger guard; positioning the pad of your finger on the center of the trigger as shown.



## TRAVELING WITH YOUR BYRNA HD


The Byrna HD/SD is a gas-powered sporting device and is not regulated as a firearm under federal law but may be subject to state and local regulations related to use and carry. Always check your local laws before carrying your Byrna outside of your home.

**AIRLINE TRAVEL:** While the Byrna is not considered a firearm, it may be considered a firearm, or its possession may be otherwise prohibited in other countries. When traveling domestically with your Byrna HD/SD always check local regulation of gas-powered “air guns” at your points of departure and arrival as well as individual airline regulations. The Byrna may not be carried on your person through airport security checkpoints, nor may it be packed in “carry-on” baggage. Subject to local law and individual airline regulations the Byrna may be transported, unloaded, in checked baggage. A locked box may be required in some jurisdictions.

**CO<sub>2</sub> Cartridges:** Never leave a CO<sub>2</sub> cartridge, punctured or unpunctured, in your Byrna when you travel. FAA regulations permit up to four (4) cartridges/cylinders (less than 28 g each) containing nonflammable gas, but individual airlines and the TSA may further regulate or restrict. Always check current rules before traveling as laws may change.

**TRANSPORTING YOUR BYRNA IN A MOTOR VEHICLE:** Some state and local laws regulate the transportation of gas-powered “air guns” and self-defense projectiles in motor vehicles. Always check local regulations in areas you intend to drive.

# TROUBLESHOOTING

 **WARNING** When attempting to resolve any performance issue make certain to keep the device pointed in a safe direction, engage the safety, eject the magazine, and confirm the breach is empty. Refer to the appropriate section of your Byrna HD/SD manual for specific instructions on attempting troubleshooting solutions.

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Device does not fire	CO <sub>2</sub> cartridge is missing or empty	Remove/ Install a fresh CO <sub>2</sub> cartridge
	Safety is engaged	Disengage safety
Trigger stuck in forward position	Projectile jam	Gently remove obstruction where possible
	Object in breach	Possible obstruction, remove if Possible
	Object in trigger opening	Make certain the trigger path is unobstructed
Device fires but no projectile exits	Empty Magazine	Load full magazine, check for obstruction in magazine / Breach.
	Magazine obstruction	Make certain the ball pusher in the magazine slides freely and completely to the top of the magazine.
	Barrel obstruction	Please contact customer service
Full Magazine unable to be inserted all the way	6 <sup>th</sup> ball in breach	Remove magazine and depress the breach indicator button
	Object in breach	Possible obstruction, remove if possible
	Magazine turned the wrong way around	Make certain the magazine is oriented properly with the magazine well
CO <sub>2</sub> punctures without depressing the trigger	Puncture pin is stuck, obstructed, or malfunctioning	Please contact customer service
Byrna creates hissing sound after puncturing of CO <sub>2</sub> canister	Damaged CO <sub>2</sub> Seal	Please contact customer service

#### LIMITED FACTORY WARRANTY

The Byrna HD/SD personal security device is warranted by Defender d.o.o., solely to the end user, to be delivered free from factory defects in materials and workmanship for a period of two year from the original date of purchase. To obtain warranty coverage, the warranty holder must (i) provide proof of original purchase, and (ii) the defective device must be safely and securely packaged and shipped before the expiration of the warranty period to Defender's designated service center in accordance with instructions provided with the Return Merchandise Authorization. The buyer's remedy under this warranty is limited, at the sole option of Defender, to a refund or credit to buyer of the price, or replacement of the defective device or other product.

#### EXCLUSIVITY OF WARRANTY AND LIMITATION OF REMEDIES

The remedy set forth above is the exclusive remedy for breach of the foregoing warranty. Except for the limited warranty expressly set forth above, Defender makes no express or implied warranties or representations with respect to any Byrna products, including any warranty of merchantability.

Warranty of fitness for a particular purpose, or warranty against infringement of intellectual property rights of a third-party. Buyers and owners are prohibited from making any warranty or representation regarding any Byrna product that is inconsistent with the express, limited factory warranty set forth above.

#### PROHIBITED USES, ALTERATION, VOIDABILITY OF WARRANTY

Owners should not attempt taking apart or repairing of the Byrna HD/SD, or using it with any unauthorized or incompatible accessories, projectiles, or gas cartridges. Any alteration, abuse, misuse, neglect, or attempt to disassemble the device or use or install any unapproved third-party product may void the warranty. The warranty also may be voided if the Byrna or any accessory or other product is improperly handled, stored or shipped.

#### END USER'S ASSUMPTION OF RISK

Before use, the user shall determine the suitability of the product for its intended use, read and understand all instructions, warnings and safety considerations provided in this manual, take all reasonable precautions to ensure its safe use, and assume all risks and liabilities in connection with the purchase, possession, and discharge of the Byrna. Defender shall have no liability nor shall it assume any obligation to the purchaser of any Byrna device or any third party for any special, non-compensatory, consequential, indirect, incidental, statutory, or other damages whatsoever, including, without limitation, punitive damages, lost profits, lost opportunities, lost revenue, loss of consortium, or other damage loss or injury whatsoever, regardless of the form of action and regardless of whether it sounds in contract, negligence, statutory or common law liability, or otherwise, known or unknown, even if foreseeable or explicitly informed, in any amount greater than the amounts paid by buyer to Defender for the products, unless due to the gross negligence or willful misconduct of Defender. The limitations set forth above shall be deemed to apply to the maximum extent permitted by applicable law and notwithstanding the failure of the essential purpose of any limited remedies. Any buyer who does not agree to this assumption of risk may return the products purchased, in their original packaging, unused, and in original condition within 7 days of purchase.





