



## INSTRUCTION MANUAL



**CROM**  
CROWD MANAGEMENT NET

2020 v. 1

ARX Security

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ARX Security recommends that a full Risk Assessment and RAMS are carried out prior to use and that PPE such as suitable gloves, high visibility clothing and protective footwear are used during installation and recovery of this product.



# Table of contents

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A. Product contents	4
B. Use and maintenance	5
C. Deployment	6
D. Dismantling	12
E. Passage	13
F. Troubleshooting and repair bag	14



## A Product contents

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A Support posts .....	4 pcs
B Carrying bag with net.....	1 pc
C Fastening straps .....	4 pcs
D Instruction manual .....	1 pc
E Reflector signs (option).....	4 pcs

## **B Use and maintenance**

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### **Before use**

1. Always lift the carrying bag to the ground. To prevent damage to the wheel mechanism, do not throw or drop the carrying bag against hard surfaces.
2. Check that the tensioners can feed the belts and can be set to the release position. See “Deployment”, item 7 on page 8.
3. Check that the belts in the net is free from damage.

### **After use**

1. Check that all parts are clean and intact. Regarding the supplied parts, see “Product contents” on page 4.
2. Clean the gear when necessary and allow it to dry. The net and supplied parts should be cleaned with soap and lukewarm water.
3. For cordons shorter than 35m that include unused, excess net, extend the net to its full length before putting it back into the carrying bag. See “Dismantling”, items 1 and 2 on page 12.

*NOTE: Allow the net and other products to dry completely before putting everything away for extended storage (more than one day). All textile parts of the net are produced in a synthetic material that cannot get mouldy; the net and carrying bag, however, could have a stale smell when stored in a humid place. A wet net will also be heavier to handle. The net dries completely in about 12-24 hours when set up at room temperature.*

## C Deployment

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1. Locate two objects for fastening the net. The distance between the fastening points must not exceed the total length of the net, i.e. 35 m.

*NOTE: The objects selected as fastening points should be selected based on the expected situation and possible load on the net. The net should always be guarded by trained personnel.*

*NOTE: The CROM can also be used to manage objects along the net, e.g. it can be deployed 90° around one or more objects.*

2. Place the carrying bag with the CROM next to one of the fastening points.

- a. Take out all the support posts.
- b. Extend one of the support posts to the first hole in the post and use it as a measuring-rod for determining the correct height placement (1.20 m) of the upper fastening strap, **picture A**.
- c. Pull the strap through the buckle and adjust the diameter using the cam lock, **pictures B and B1**.

*NOTE: The cam lock should always face the side controlled by the user.*

- d. Then fasten the lower fastening strap as close to the ground as possible.
- e. Repeat this process at the opposite end with the two remaining fastening straps.



## C Deployment

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3. Hook the tensioners to the top and bottom fastening straps, **Fig. C.**

*NOTE: The hook latch should face the side controlled by the user.*



4. Extend the net by pulling the bag across the ground to the other fastening point, **picture D.**



5. Walk along the net and straighten the top line to make sure which line should be attached to the upper and lower fastening straps, **picture E.**

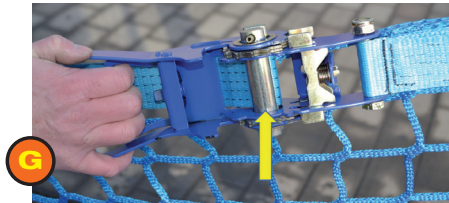


## C Deployment

6. Attach the top and bottom hook of the net in the link of each fastening strap, **picture F**.



7. Before tensioning the net, check that there is no belt rolled up on the reels in the top and bottom tensioners. The belt should pass evenly through the reel, **pictures G and G1**.



*NOTE: To release the belt, pull the handle 180° backwards to lock the tensioner in released position, **picture G1**.*



8. Pre-tension the net by pulling the belt by hand through the top tensioner towards the opposite fastening point, **picture H**.

*NOTE: For longer distances, this work is easier done by two persons. One person assists by holding up the net, while the other person pre-tensions the same.*



## C Deployment

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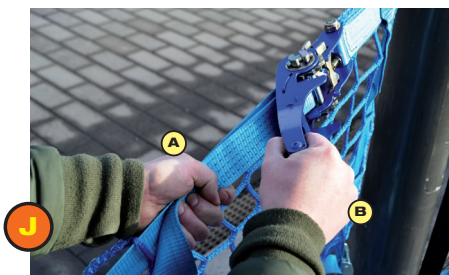
9. Once the net has been pre-tensioned and it clears the ground by about 20 cm (8 inches), proceed with final tensioning by pulling the handle back and forth repeatedly, **pictures I and J.**

*NOTE: Shorter distances than 35m will cause unused, excess net that should be collected at the end without tensioners to prevent entanglement.*

*NOTE: Hold the pre-tensioned belt and net with one hand (pos. A) and operate the handle with the other hand (pos. B). Keep holding the net and belt with one hand (pos. A) until the net has been properly tensioned and to prevent the net from being pulled into the tensioner and becoming caught or the belt from rolling up at an angle and getting jammed in the tensioner.*

10. Repeat step 9 for the lower tensioner.

11. Once the net has been tensioned, press down the locking lever and move the handle to the closed position, **picture K.**



## C Deployment

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12. Place the four support posts on the ground along the net to more easily determine correct spacing. A 30m net should be supported by support posts at every 6 metres.

13. Extend the support post to the first hole in the post and first insert the top belt into the top slit in the leg, then the lower belt into the bottom slit, **pictures L, M, N and O.**

*NOTE: To ensure a firm barrier, the support posts should have contact with the ground. In case of uneven ground, the lower belt can be inserted in one of the bottom slits on the support post. If additional adjustment is required, push in the release button and extend the post to the next level.*



## C Deployment

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14. Once the support posts have been installed, tension the net further if required.

15. Check whether the belts at each short end of the net need tensioning, **picture P**.

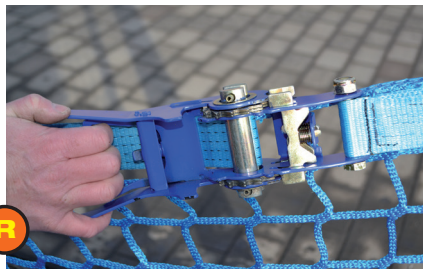


16. Completed deployment of the CROM.



## D Dismantling

1. Release the tensioned net by pulling the handle 180° backwards and lock the tensioner in the release position. Repeat with the lower tensioner, **pictures R and R1.**



2. If the net has been deployed for a distance shorter than 35 m, the net needs to be extended to its full length before it is put back in the bag. Unhook both tensioners, but let the other side of the net remain suspended in its fastening points. Take hold of both tensioners and extend the net fully for easier subsequent deployment by the next user, **picture S.**



4. Unhook the hooks on the side without tensioners. Place this part of the net first in the bag until the tensioners finally end up on top of the net when closing the bag.

5. One person then pulls the carrying bag along the net, while the other person puts the net into the bag.

*NOTE: Instead of pulling the net along the ground into the carrying bag, pulling the bag and simultaneously packing the net into the bag prevents the net from becoming worn and dirty.*



## E Passage

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1. Release the tensioned belt by pulling the handle 180° backwards and lock the tensioner in the released position. Allow the net to fall to the ground, **picture T**.

*NOTE: If speed is an issue, pull at the top line of the net to quickly get the net onto the ground. If necessary, release the lower tensioner, e.g. if vehicles need to pass across the net.*

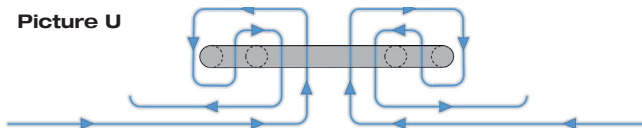
*NOTE: To redeploy the net, this will be easier if performed by two persons. One person assists by holding up the net, while the other person pre-tensions the same. Then adjust the support posts to a vertical position.*



## F Troubleshooting and repair bag

Issue	Possible cause	Corrective action
The tensioner is locked or damaged	The belt is stuck in the reel	Pull out the belt by hand after putting the tensioner handle in the released position. <b>Repair bag:</b> Replace a damaged tensioner with a new one using the open-end spanner.
The support posts cannot be locked at the desired height	Unaligned or damaged release mechanism	Pull out the support post completely. Use a sharp object to reset the release to the correct position. Repair bag: Replace a damaged release with a new one.
Damaged net (cut meshing)	Knife	<b>Repair bag:</b> Mend the cut using cable ties to pull together the neighbouring mesh wires. One cable tie per loop. Once attached, use the cutters to cut off the ends of the cable ties.
Damaged net (burnt)	Fire	<b>Repair bag:</b> Cut off damaged mesh wires using the cutters. Replace with spare meshing cut to suitable size. Use cable ties to attach the meshing. One cable tie per loop. Once attached, use the cutters to cut off the ends of the cable ties.
Damaged tensioning belt	Knife, fire	<b>Repair bag:</b> If the tensioning belt is cut off fully, in an emergency it can be temporarily reconnected using the A-lock, see pictures U and V. Approximately 30 cm of the belt should protrude at both ends once reconnection has been completed.

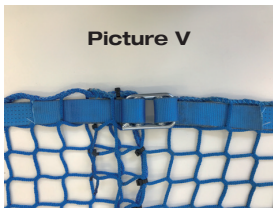
Picture U



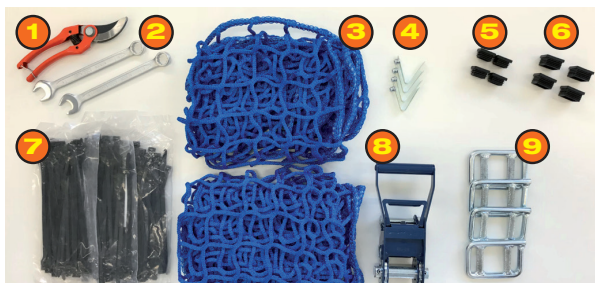
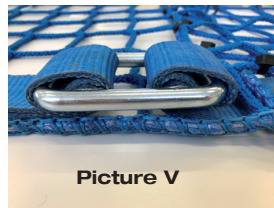
Repair bag



Picture V



Picture V



Repair bag

1. Cutter
2. Open-end spanner
3. Spare meshing
4. Release for support post
5. Plastic plug for upper support post
6. Plastic plug for lower support post
7. Cable ties
8. Tensioner
9. A-lock

# Notes

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