

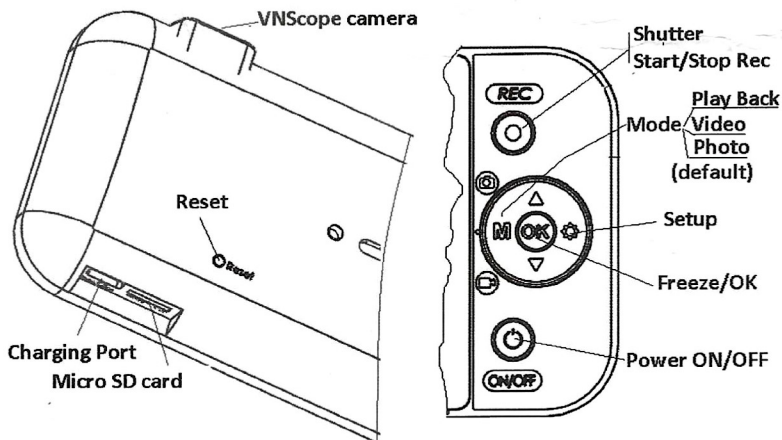
## Mo-3 HD DVR/ Monitor

### User Guide

#### Warnings and Cautions

- It is the user's responsibility to read and to understand these instructions prior to use of Peak Medical laryngoscopes.
- Tracheal intubation requires specialized training. Only personnel who have received training should be authorized to use video laryngoscopes.
- Don't attempt to use any laryngoscope unless pre-use checks, as described in IFU of Peak VN laryngoscope, have been carried out successfully.
- Store in dry clean condition away from heat and light.
- Charge monitor battery if it not in use at least once a week
- **Don't charge battery during intubation**
- Disconnect monitor and adapter when charging is finished (LED of ON/OFF button is not blinking)
- Don't use liquid or aerosol cleaners and disinfectors other that specified by manufacturer
- Don't spill liquids of any kind onto product.
- Never push objects of any kind into this product through opening
- Don't attempt to service this product yourself. Opening or removing cover will void warranty.
- Don't insert or pull out memory SD card when the monitor is ON
- In the vicinity of patients use the monitor only closed into the protective enclosure
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#### Buttons and Connections




#### Basic operations

##### 1. Charging the battery

Internal Li-Ion battery could be charged via USB-C port (at the bottom of the monitor) using USB-C/USB-A cable and recommended 5V adapter.


##### 2.Power ON



Plug-in connector of VNScope into monitor into Camera port; Press ON-OFF button  and wait till image appears on the screen. Check the battery charge level;

##### 3.Power OFF



Press ON-OFF button  to switch off the monitor

##### 4.Operation modes

**Intubation (Photo ) mode** (default mode) : perform intubation with connected VNScope. To take picture press Sutter (REC) button.






**Intubation (Video ) mode**: press once  to choose VIDEO mode. Perform intubation with connected VNScope. To record film press REC button once. To stop recording press REC button again.

\*Recording will be performed only if SD memory card is inserted

**Play back () mode** : press  twice to choose play back mode.

##### 5.Play back recorded Video/Photo files



##### Play back using monitor MO3

Select play back mode by pressing  twice. Select needed file by pressing  or  and then OK for play back the chosen file. Photo and Video files have JPG. or MOV. formats accordingly. For fast forward playback (x2, x4,x8) press  one ,two or 3 times correspondently. To reverse the records, press  one, two or 3 times correspondently.

##### Play back using computer


Connect by charging cable USB-C charging port of the monitor and USB port of the computer. Turn-on the monitor. The recorded films and pictures are in DCIM folder of the external drive (SD card).

##### 6.Delete Video/Photo files

Select play back mode pressing , select the picture, press , select "Delete", press OK , select "Current" or "All " and press again OK to delete. To protect files, choose protection option.

To display films and pictures as slideshow to choose "Slides show" mode with desired frequency (2,5 or 8 sec).

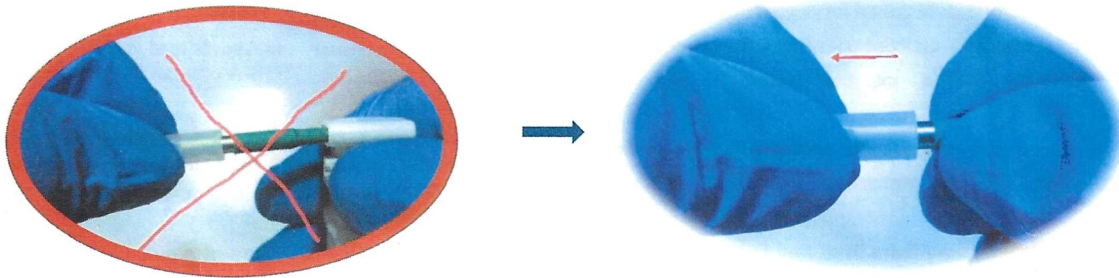
##### 8. System settings

Choose setup menu by pressing  twice. Check that "Auto Power Off" is canceled ("OFF") to avoid switching off of the monitor during intubation. Format SD card if required.

#### Monitor warranty

This product's warranty, provided by our company, covers a period of 1 year from the date of purchase. All faulty parts and/or functions, resulting despite the user's normal use, will be repaired and/or replaced at no charge during the warranty period. However, if any of the malfunctions are caused by user carelessness, inadequate maintenance, or natural disaster, we will provide repair and/or replacement services for a fee regardless of the warranty period. In the event, our product does not prove suitable for your application you can return the product for an exchange or refund. To claim, the product must be returned in good condition within 14 days. Before returning a product, please contact and provide us a serial number. The customer is responsible for all shipping costs.

**Attention:** to pull the camera protective cup off in a wrong way could damage the camera!!!



***Don't attempt to use the laryngoscope unless pre-use checks have been carried out successfully!***

### **Intubation Technique with Video Laryngoscope**

To perform an intubation, using the Peak VN laryngoscope, Peak Medical Ltd. recommends 4-Step Technique as outlined in this procedure. Each step begins with where the user should be looking in order to complete that action. Prior to beginning this procedure, verify that the monitor is receiving an accurate image from the video laryngoscope and airway is cleared.

1. **Look in the Mouth:** With the video laryngoscope in your left hand, introduce it into the mouth and place it inside according to conventional direct laryngoscopy technique.
2. **Look at the Screen:** Identify the epiglottis, and then manipulate the blade in order to obtain the best glottis view.
3. **Look in the Mouth:** Carefully guide the distal tip of the tube into position near the tip of the laryngoscope.
4. **Look at the Screen:** Complete the intubation, gently rotating or angling the tube as needed to redirect it.

### **Color Coding of VNScope**



**Mill 000**



**Mill 00**



**Mill 0**



**Mill 1**



**Peak VN Neonatal Video Laryngoscope kit (REF. PVN100-MO3)**

- PRODUCT DESCRIPTION**

The Peak VN monitor MO-3, in conjunction with reusable VNScope handles and single-use video laryngoscopes blades VNBlade, is designed to deliver clear airway views and enable rapid intubation. Low-profile designs and innovative construction make these blades streamlined and lightweight, offering improved maneuverability and working space for routine and difficult airways. With more scope options, including NOX insufflation attachment and NOX-S insufflation attachment with guiding tube, clinicians can choose their preferred tools for a wide range of patients and clinical settings.

- INTENDED USE**

The monitor with cameras/handles and blades is intended to work for laryngoscopy within the airway of neonates from preemies with very low birth weight to newborns with normal weight. The blades are of 4 sizes MILLER type from as small as 000 to 1

The shape blades and dimensions of the blades comply with Common Specification of such type of the blades There for the intubations could be performed even with no image on the monitor.

- CONTRAINDICATIONS**

No contraindications relating directly to the product are currently known. The use of the Peak VN video laryngoscope is contraindicated if, in the opinion of a responsible physician, the health of the patient is endangered through its use, for example, due to the patient's general condition, or if laryngoscopy as such is contraindicated.

- Peak VN kit PARTS & ACCESSORIES**

#	Catalog reference number	Qty units	Commercial name	Generic Device Term	Description	GMDN code	Remark
<u>1</u>	VNS U1	1	VNScope 1	Laryngoscope handle	Laryngoscope handle for endotracheal intubation	46830	-----
<u>2</u>	VNS U0	1	VNScope 0	Laryngoscope handle	Laryngoscope handle for endotracheal intubation	46830	-----
<u>3</u>	VNS U00	1	VNScope 00	Laryngoscope handle	Laryngoscope handle for endotracheal intubation	46830	-----
<u>4</u>	VNS U000	1	VNScope 000	Laryngoscope handle	Laryngoscope handle for endotracheal intubation	46830	-----
<u>5</u>	MO-3	1	Monitor MO3	Monitor	Monitor LCD 5"	-----	-----
<u>6</u>	VNB 1	-	VNBlade 1	Laryngoscope blade	Laryngoscope blade for endotracheal intubation	46828	Not included Purchased separately
<u>7</u>	VNB 0	-	VNBlade 0	Laryngoscope blade	Laryngoscope blade for endotracheal intubation	46828	Not included Purchased separately
<u>8</u>	VNB 00	-	VNBlade 00	Laryngoscope blade	Laryngoscope blade for endotracheal intubation	46828	Not included Purchased separately
<u>9</u>	VNB 000	-	VNBlade 000	Laryngoscope blade	Laryngoscope blade for endotracheal intubation	46828	Not included Purchased separately
<u>10</u>	NOX	-	NOX	Attachment	Laryngoscope handle attachment for insufflation	46828	Not included Purchased separately
<u>11</u>	NOX-S	-	NOX-S	Attachment	Laryngoscope handle attachment for insufflation with guide	46828	Not included Purchased separately
<u>12</u>	DNS 100	1	DNScope	Laryngoscope handle	Laryngoscope handle for endotracheal intubation	47806	-----
<u>13</u>	Cab.	<u>1</u>	Cable	Cable	Cable USB-A to USB-C	-----	-----
<u>14</u>	Adapter	-	Adapter	Adapter	Adapter for charging ; Output 5VDC:1.5-2.0A Output Socket USB-A Medical Grade; IEC 60601-1 approved	-----	Not included Purchased separately by a user. FRIWO <b>FOX6-XM-USB</b> or similar
<u>15</u>	EN-2	1	Enclosure	Enclosure	Transparent enclosure for monitor	-----	-----

## Peak VN Neonatal Video Laryngoscope kit (REF PVN100-MO3)

### Instruction for Use

#### Warnings and Cautions

- It is the user's responsibility to read and understand these instructions prior to the application of Peak Medical laryngoscopes.
- Tracheal intubation requires specialized training. Only personnel who have received training should be authorized to use video laryngoscopes.
- Don't use if the package of disposable products is opened or damaged
- Do not attempt to use any laryngoscope unless pre-use checks as described below have been carried out successfully.
- Store in dry clean condition away from heat and light.
- Use the monitor only closed into the protective enclosure near patients and in the treatment area.
- Avoid penetration of liquids into the monitor
- Charge the monitor battery after each application, if it not in use charge at least once a week. **Don't charge the battery during intubation**
- Don't perform Charge of the battery, Set up of the monitor and File management in the vicinity of patients and in the treatment area.
- Except battery charging and visual inspection of all components, regular technical service is not required.
- Disconnect the monitor from the adapter and adapter from the mains when charging is finished (ON-OFF LED stops blinking)

#### Pre-use checks and preparations prior to commencing an intubation procedure:

- Choose VNScope and blade size in accordance with the weight of newborn (make sure that sizes and color-coding are similar for both)
- Remove protective caps
- Check VNScope handle and blade for sharp edges or flaws that may have resulted from mechanical damage.
- Ensure that the blade is securely and correctly clicked into place on the handle.
- Connect VNScope cable securely to "Camera" socket of the monitor and insert SD card if recording supposed (**before switching on the monitor**)
- Press ON-OFF button for 3 sec to Switch On the monitor, check the quality of the image on the screen and battery charge level.
- Don't use the monitor if the battery is not fully charged according to the bar indicator or image is not acceptable.
- Press again ON-OFF button to Switch Off the monitor.
- Put monitor into the protective enclosure and lock it properly (latch clicked into place)
- If insufflation or guidance is required, insert the connecting pin of NOX/NOX-S in the corresponding hole of VNScope handle, direct orifice along the blade and secure it.
- Connect NOX/NOX-S with blender and adjust blender to desired oxygen concentration and flow. Check gas flow at the distant end of blade
- Open support of the enclosure and install the monitor steadily in the best position for intubation.

#### Operating Instruction

- Switch On the monitor by ON-OFF button of the enclosure.
- Open gas flow (if applied)
- If a recording is required, chose desired mode of recording **PHOTO** or **FILM** (default mode is **PHOTO**) and then close the enclosure, press on **REC** button once to take a picture or to start recording, to stop recording press again on **REC** button. **SD memory card should be inserted prior to Switching On the monitor**
- Intubate by applying technique recommended for video laryngoscopy
- After intubation press on ON-OFF button to Switch Off the monitor.
- Discard the blade and the attachment after use and dispose them according to standard hospital procedure. Don't sterilize.
- Close the camera and the plug of the VNScope with protective caps.
- Take out the monitor from protective the enclosure for cleaning and disinfection of the enclosure, battery charge and file management.
- For management of the recorded files and set up of the monitor see **MO 3 User Guide**

#### Routine care and maintenance

- Video laryngoscope handles should always be cleaned and thoroughly dried before storing in a dry place.
- Keep lens always protected with cap and avoid contact with sharp and abrasive objects and materials and contamination.
- In case of contamination of the optical surface, clean it according to the procedure recommended for optical systems.
- Battery of the monitor should be recharge after each application. **Disconnect the monitor from the adapter and adapter from the mains when charging is finished (ON-OFF LED stops blinking)**

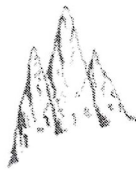
#### Cleaning, disinfection and sterilization

- Always comply with local health&safety regulations
- Clean and disinfect handle according to standard hospital procedure for similar devices.
- When using disinfectant or sterilizing solution, always observe manufacturer's recommendation.
- Do not use chemical sterilants or disinfectants that are not approved by Peak Medical Ltd. (see attached list of approved disinfectants and cleaners).
- Immediately after use, the VNScope should be rinsed in clean tap water to remove any residue. (**be sure that the plug and the camera are properly protected by caps**).
- External surfaces should be gently scrubbed in soapy water with a soft brush to prevent encrusted deposits. Do not use abrasive materials such as steel wool.
- VNScope may be immersed in solution (**be sure that the plug and the camera are properly protected by caps**).
- After exposure to the solution, rinse the VNScope handle with warm sterile water and dry thoroughly.
- The blades and the attachments are supplied not sterile, if required, blades could be sterilized in original packaging by EtO only. **Don't use other sterilization or disinfection procedures**
- Ultrasonic cleaning and autoclaving are not recommended and will void warranty.

Manufactured by: Peak Medical Ltd. 10 Giborey Israel Str. P.O.B. 4044 Netanya 4210401, Israel, 2022

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**Date: August 9, 2022**

**List of approved cleaners and disinfectants**

The company Peak Medical Ltd confirms and warrants that following disinfectants and cleaning agents could be used for processing of Neonatal Video Laryngoscope handles VNScope:

1. Bacillol 30 (Hartmann)
2. Descogen liquid r.f.u (Antiseptica)
3. Mikrozid universal (low alcohol based) (Schulke)
4. Incidin plus 0,5% ( Ecolab)
5. Trio Wipes System (Tristel)
6. Super Sani-Cloth Germicidal Disposable Wipes (PDI)
7. Simple 2 Multi-Tiered Enzymatic Detergent (PDI)
8. Hydrogen Peroxide Cleaner Disinfectant Wipes (Clorox Healthcare)
9. Clinell Universal wipes (Clinell)

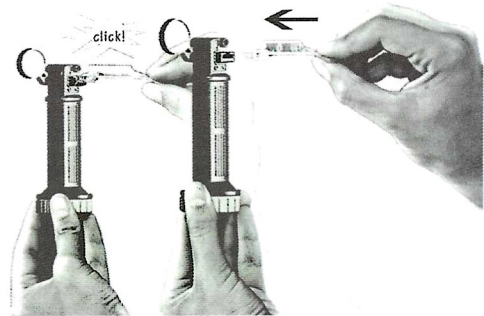
The disinfectants and cleaning agents should be applied in accordance with recommendation of the manufacturers and should always comply with local health&safety regulations. Application of protective cups, rinsing in clean water and drying after disinfection are mandatory.

**WARNING:** Ultrasonic cleaning is not recommended and will void warranty

Evgeny Pecherer  
Chief Executive Officer  
Peak Medical Ltd.

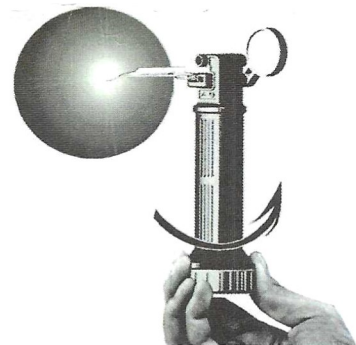
## **DNScope Neonatal Laryngoscope Handle Operating Instructions**

**1) Attach laryngoscope blade to the handle.**



**2) Ensure blade is fitted firmly on the handle and clicked into the place.**

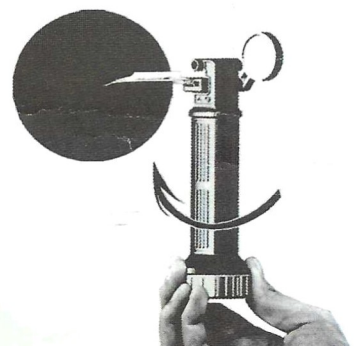
**3) Switch On LED by rotating knob clockwise.  
Don't apply excessive force!**



**4) Apply magnifying glass if needed by rotating it to a proper position.**



**5) After intubation switch Off LED by rotating knob counter clockwise.**



**6) Discard the blade after use.  
Don't sterilize.**

**7) Dispose of blade according to standard hospital procedure.**

