



TM puriSCOPE

GUIDELINE ■ INSTALLATION

SOFTWARE SETTINGS CAMERA CALIBRATION



SET-UP OF PARTS

Light Panel

On/Off, connect to power source

2 Bottles

LEFT: **BLANK** • RIGHT: **SAMPLE**
blue marking pointing to light panel

iPod Touch in slot

Base-Board

SOFTWARE SETTINGS OF "OPTIONS"-MENU



**NEVER UPDATE YOUR IPOD TOUCH
WHILE CONNECTED TO THE ITUNES STORE!**

1 PROCEDURE SETTINGS

- tap on the left side of the screen to scroll to the OPTIONS menu
- follow: OPTIONS • **PROCEDURE** = PST surface value
- select the **tubing diameter** of the dispensing system verified

2 RESULT CONFIGURATION SETTINGS

- set the threshold values you wish to achieve:
OPTIONS • **RESULT CONFIGURATION**
- by double-taping on the three levels you can name them e.g. ...
PINK = very clean / GREEN = clean / YELLOW = needs more cleaning
(labels for interpretation of future verification results – can be changed any time)

3 REPORTS SETTINGS

- **SEND REPORT**
send accumulated reports (csv/xls) per E-Mail (use WiFi Connection)
- **DELETE REPORT**
delete all accumulated reports (csv/xls)
- **"Save JPEG-Report to Photo Library"** switch to ON
OFF = reports are still displayed but not saved to the camera roll
- Tap BACK • DONE to save all settings and return to the main menu!

CAMERA CALIBRATION



**CALIBRATE THE CAMERA BEFORE THE FIRST VERIFICATION!
TO ENSURE REPEATABLE AND SUSTAINABLE RESULTS**

1 PLACE BOTTLES WITH TAP WATER

fill the two TM puriSCOPE bottles with tap water, leave them open = without caps
place them in front of the light panel (blue marking pointing to light panel)

2 PLACE IPOD TOUCH

launch the TM puriSCOPE app and place the iPod Touch in the slot on the base board

3 TAKE A PHOTO

tap on: CAPTURE • camera trigger, make a photo of the bottles • USE

4 CALIBRATE

- take out the iPod Touch
- open OPTIONS (left screen side) • question: "Do You want to save the Result?" • NO
- next steps:
OPTIONS • **CALIBRATION** • GET RGB COMPENSATION •
Question: "Do you really want to calibrate this puriSCOPE?" • YES • DONE



TM puriSCOPE is now ready for use!

TIPS FOR VERIFICATION-PRO's

- ☒ Safety first: **Verification solution is corrosive. Avoid skin contact!**
Use safety gloves and goggles and a safety placard to mark the work station.
- ☒ **BEFORE and AFTER** each verification **rinse well all lines and containers** with clean tap water. **Food safety: below pH8!**
- ☒ Never shake cleaning pot under CO₂ pressure. De-pressurize container before moving.
CO₂ neutralizes alkaline solutions!
- ☒ **Exact Volume = Exact Result!**
measure volume of lines and containers (gas bubble + 50ml/2oz).

www.thonhauser.net



Any questions?

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TM puriSCOPE

GUIDELINE ■ VERIFICATION

1 PRE-RINSE LINES & PREPARE INDICATOR SOLUTION

- fill pre-rinsed cleaning container with cold tap water.
- attach the container to the coupler/CO₂-source.
- pour beverage into a measuring beaker (until gas bubble + 50ml)
Remember this line volume!
- Prepare enough solution to fill the entire dispensing system!



TABLE TO CALCULATE VOLUME NEEDED (per diameter of tubing)

	7mm I.D.	10mm I.D.	12mm I.D.	1/4"	3/8"	1/2"
4,5 L	45 m	22 m	13 m			
1.5 gal				500ft	250ft	150ft

- fill cleaning container with cold tap water, add 1 packet TM DESANA MAX (e.g. 45g for 4,5 liters, 90g for 9 liters, 1.2 oz or 1.5 gal).
- Close container and shake well!

2 PULL BLANK

- pour at least 25ml of the fresh solution directly in the blank-bottle.
- place it on **left position BLANK** on the base-board.
- to avoid contamination from the air, place the cap on the bottle.



3 FILL THE LINES

- close the cleaning container and attach the coupler under CO₂-pressure.
- open faucet and tap water from the line.
close faucet as soon as colored solution flows out (any colour).



The dispensing system is now filled entirely with TM DESANA MAX!

4 5 MIN CONTACT TIME

TM DESANA MAX mineralizes organic residues in the lines
= **CHANGE OF COLOR**

in the meantime ...

- open and empty cleaning container from remaining solution.
- rinse it well and fill it up with clean tap water.
- attach the coupler under CO₂-pressure.

after contact time ...

- tap TM DESANA MAX-solution into a clean bucket.
- if **water flows out = close the faucet!**



5 FILL SAMPLE IN BOTTLE: BLANK LEFT, SAMPLE RIGHT

- mix the solution and fill 25ml of this sample into the second bottle.
- place **SAMPLE on the right position** in front of the light panel.

- ☒ **Make sure both bottles are open!**
- ☒ **The blue marking should point to the light panel!**

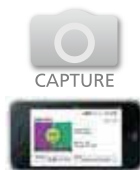


6 ACTIVATE TM puriSCOPE

- connect and switch on light panel – **wait 10 seconds before taking the first picture!**
- launch puriSCOPE App by tapping the icon on the iPod Touch.

7 TAKE A PICTURE

- tap camera icon **CAPTURE** and put iPod Touch into the slot on the base board (camera lense points direction of the bottles).
- take a photo, then confirm with **USE = real time result display!**



8 SAVE VERIFICATION REPORT

- tap on the **left** side of the iPod Touch screen to scroll to the **SAVE** menu.
- **TAG YOUR RESULT:** TAG = type in descriptive text e.g. "line1"
CUSTOMER = give contact information
- Tap **DONE** to exit.

the report is saved as JPG in the camera roll of the iPod Touch
(change settings in the **OPTIONS** menu – see Guideline-Installation on www.puriscope.com)

9 EXPORT JPG-REPORT

- tap the **PHOTOS** icon, then **CAMERA ROLL** and then the last picture.
- below the selected image a menu bar appears.



- ☒ **EMAIL PHOTO** (use WiFi connection, file size: 28 KB)
- ☒ **synch all previously created photos with desktop computer via iTunes**

EXPORT REPORT AS CSV/XLS-FILE

accumulated reports are also saved as EXCEL readable file and can be exported via email (use WiFi connection). Tap: **TM puriSCOPE • OPTIONS • REPORTS • SEND REPORT**
Email is created with the report files attached.

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