

Sentosa GUI and Menu Specification



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Edition:

01

Document Released by:

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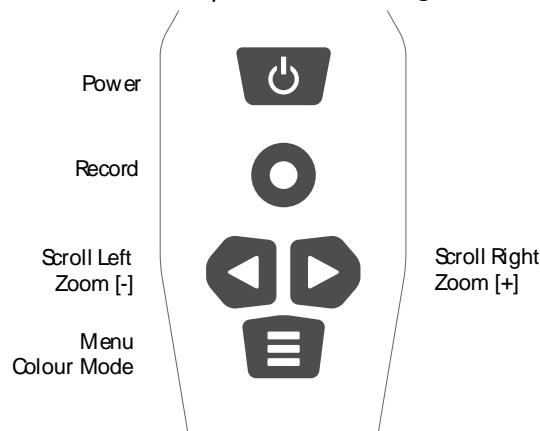
1 General

1.1 Introduction

N/A

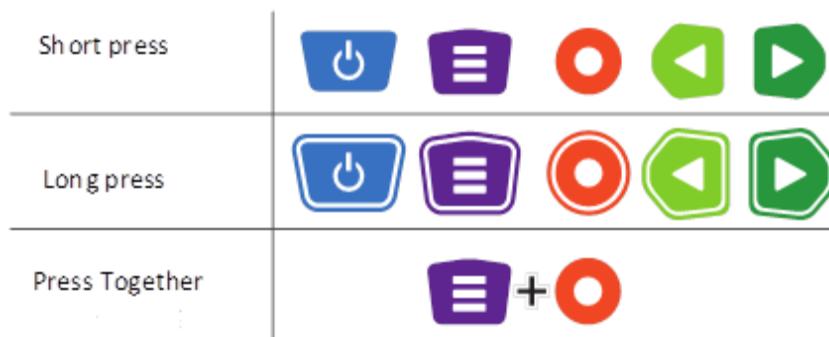
2 Navigation style

The user interface of Sentosa shall be the same as for the DTI3 family. Beside the same button layout, also the functions shall be very close to the DTI3.



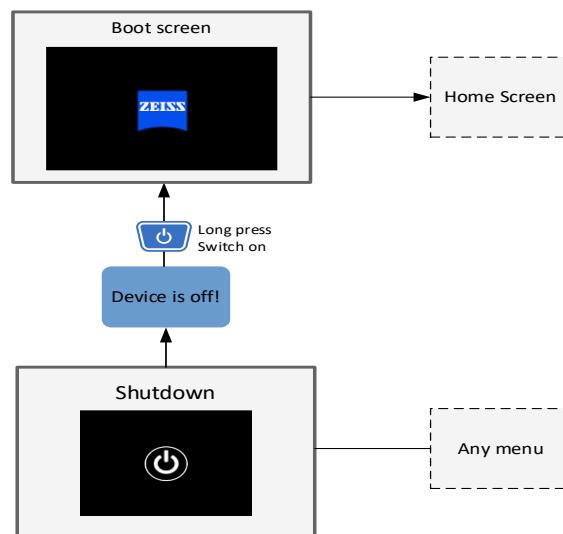
The general concept is, that each button can have two functions.

The power button is reserved for Standby and Shutdown, and for engineering modes.

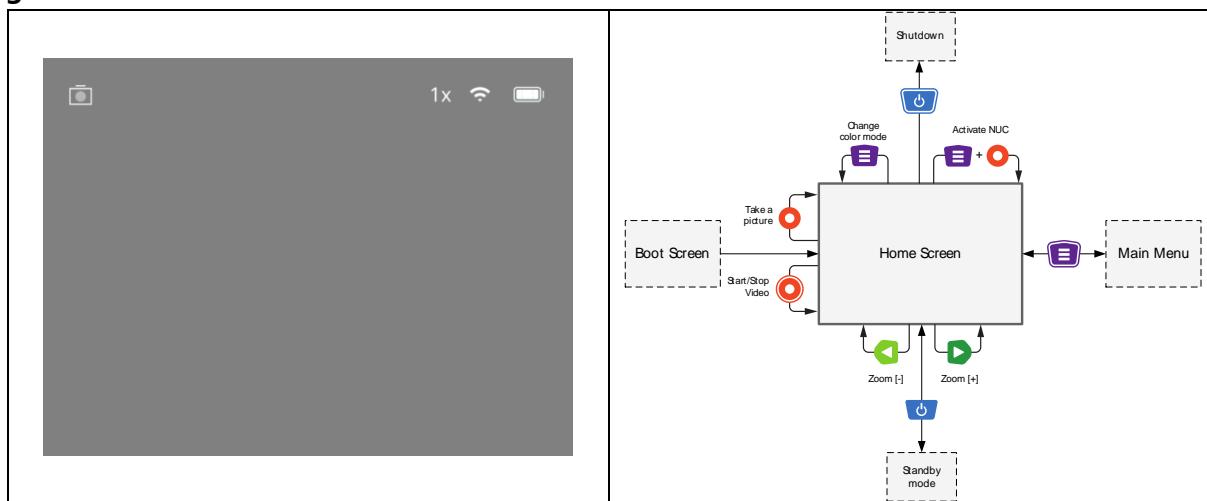


3 Menu Structure

3.1 Boot Screen



3.2 Home Screen



3.2.1 Battery levels

				
<10%	10-<25%	25-<50%	50-<75%	75-100%

				
<=25%	>25-50%	>50-75%	>75-95%	>95-100%

3.2.2 Change color mode

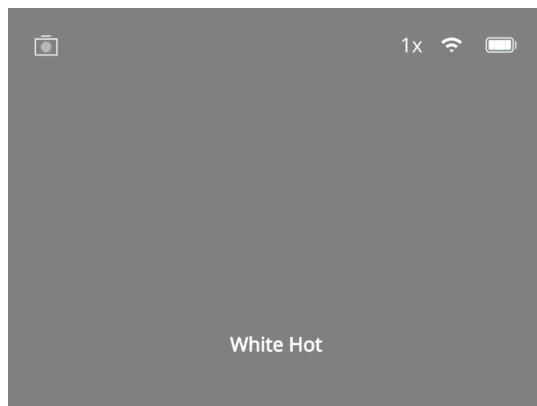


Figure 1 When the color mode is changed, the current color mode is displayed briefly near the bottom of the screen.

Duration for displaying name of current color mode: 2 seconds.

The change through the available color modes is cyclic, i.e., it wraps around after the last color mode is reached.

The change of the color should occur immediately after pressing the button.

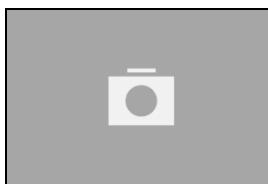
There shall be the following color modes:

- White Hot
- Black Hot
- Red Hot
- Green Hue
- Red Hue
- Rainbow
- Dark Hue (TBD)

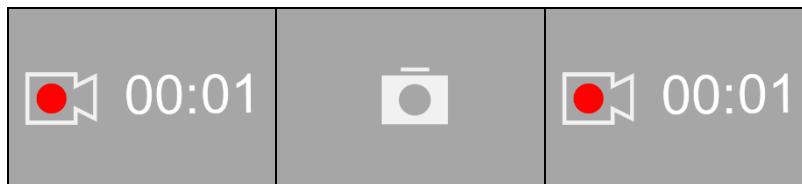
3.2.3 Photo/Video mode

Compared to the DTI 3 devices no icon for photo or video is visible in the home screen in normal mode.

If the customer takes a photo the photo icon will appear briefly to indicate a photo was taken.



The customer can start recording a video with a long press on the record button. The record symbol appears, and the recorded time will be displayed. The customer can take a photo while he records a video. The icon switches briefly to the photo icon to indicate a photo was taken, and switches back afterward to the record icon.



If the customer switches the device off or in standby mode while a video is recorded, recording shall stop, and the video saved on the internal storage, only then may the system go into standby / turn off.

3.2.4 Zoom levels

The device starts up with digital zoom 1x. The user can change the digital zoom by pressing the left and right buttons. The zoom value is increased or decreased with a step size of 0.5x.

The zoom steps are as follows: 1x, 1.5x, 2x, 2.5x, 3x, 3.5x, 4x. Note: the integer zoom steps are displayed without a decimal place. The change of the zoom value cyclic, i.e., it wraps around after 4x back to 1x if the user tries to increase the zoom, and if the user decreases zoom when already at 1x it will wrap around to 4x.

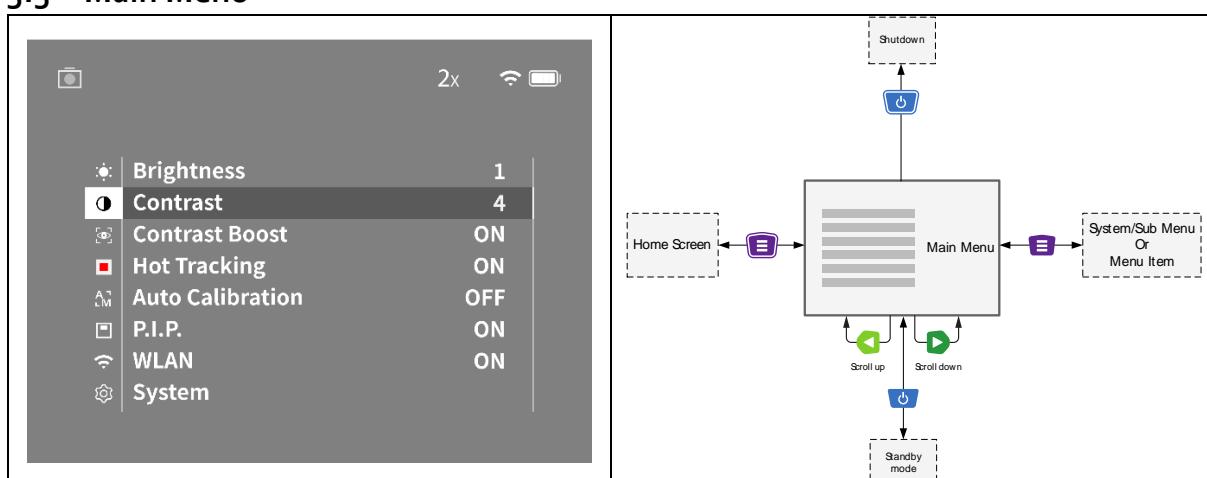
The "x" of the zoom level shall always be on the same spot in the display.

The zoom shall have a smooth transition from one zoom level to next (zooming in and out depending on the button press), just like the Lynx PRO has.

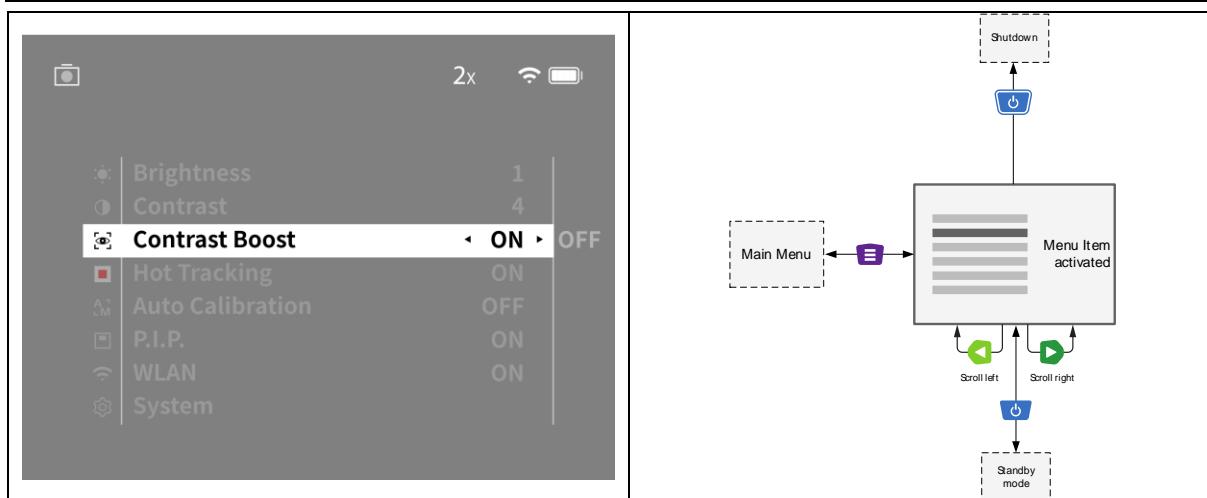
3.2.5 Standby

When the device is in normal observation mode, a short press on the power-button will put the device into standby mode. In standby mode the display is turned off.

3.3 Main Menu



Like the zoom levels, the menu should also be circular: When I am at the bottom most item and I press "down" one more time I will jump to the topmost item. Same goes if I am at the topmost item and I press "up" one more time I jump to the bottom most item.



Like the main menu, the sub-menus / settings should also be circular. When I am at "ON" and I press "left" again I will jump to "OFF"

3.3.1 Brightness

User can change the display brightness to one of these levels 1, 2, 3, 4.

1 is the darkest setting.

4 is the brightest setting.

The change is applied immediately as the setting is changed. This allows the user to quickly find the optimal brightness for his situation.

TBD: what is the lowest level?

3.3.2 Contrast

This changes the display contrast.

Possible contrast levels: 1, 2, 3, 4.

1 represents the lowest contrast.

4 represents the highest contrast.

The change is applied immediately as the setting is changed. This allows the user to quickly find the optimal brightness for his situation.

TBD: what is the lowest/highest level?

3.3.3 Contrast Boost

3.3.4 Hot Tracking

Possible settings: ON, OFF.

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If is set to ON, a small red square is displayed at the position of the warmest point in the scene.

3.3.5 Auto Calibration

Possible settings: ON, OFF.

When set to ON, the device will perform a reoccurring automatic calibration using the internal shutter. When the internal shutter is used, you can hear a short clicking sound. There is an internal logic that will determine the best time to perform the internal calibration to provide a clear image.

In addition, you can start an internal calibration with a short simultaneous press of both the REC and MENU buttons will.

If set to OFF, there will be no automatic calibration. When the user feels that the image becomes less clear or stripes appear, then the user must perform a manual calibration. To do this, the user must close the front objective lens cap and then shortly press both the REC and MENU buttons simultaneously.

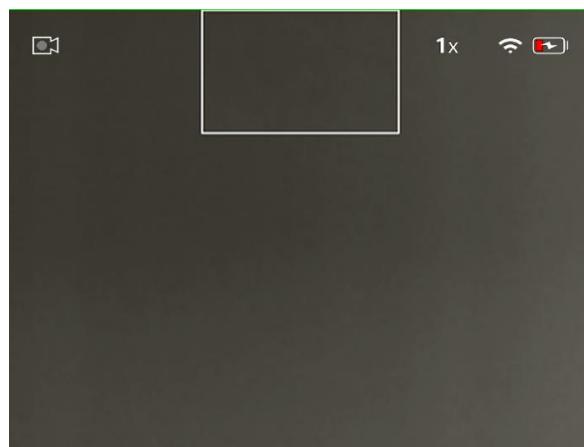
When this setting is changed from ON to OFF, a hint for the required covering of the lens cap is shown briefly on the screen: "Cover lens during calibration".

3.3.6 P.I.P

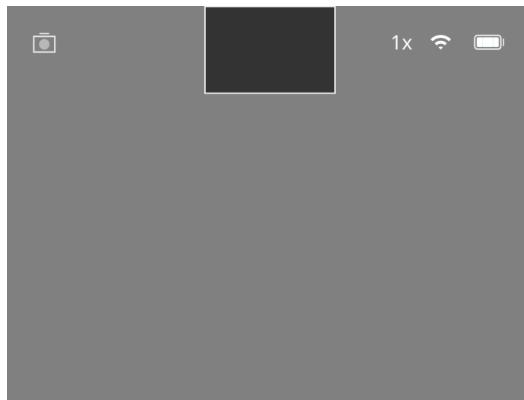
Possible settings: ON, OFF.

If set to ON, there shall appear a small square at the top of screen magnifying the center of the screen, which is market by a "target frame" by 2x.

Exact Sizes to be TBD



If set to OFF the square and the target frame is not visible



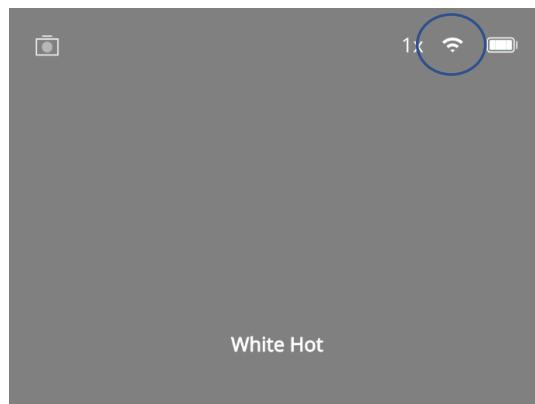
3.3.7 WLAN

Possible settings: ON, OFF.

When set to ON the WiFi hotspot should be on the WiFi symbol shall appear in the right hand corner.

The WiFi symbol shall be positioned in the middle between "x" from the zoom factor and the battery symbol.

When set to "OFF" the WiFi hotspot should turn off and the WiFi symbol shall disappear



3.3.8 Color Modes

This is a value showing how many color modes are set to "active". If this item is selected it will show all the color modes in one line (White Hot Black Hot Red Hot Green Hue Red Hue Rainbow Dark Hue (TBD)), but only three of them are visible at a given time (see example below). Using the left and right button you can scroll through them. The one that has the current focus always stays on the same position in the middle (e.g. like the "Yes" and "No"). A color mode is activated by selecting it. The activation is marked by inverting the color of the background and the letters. As Default all color modes are activated.

Example:

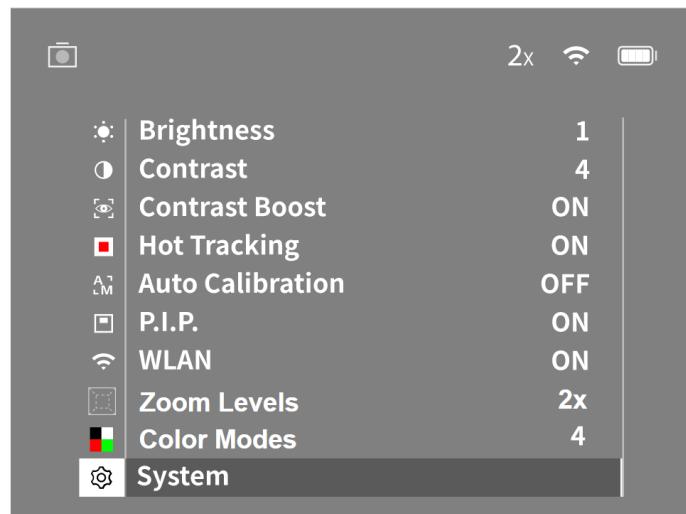
None are activated and focus is on "Black Hot": White Hot ▲ Black Hot ▾ Red Hot

Black Hot "Black Hot" is activated:

White Hot ▲ ▾ Red Hot

We now scroll one to the right:

▲ Red Hot ▾ Green Hue



Currently 4 color modes are active

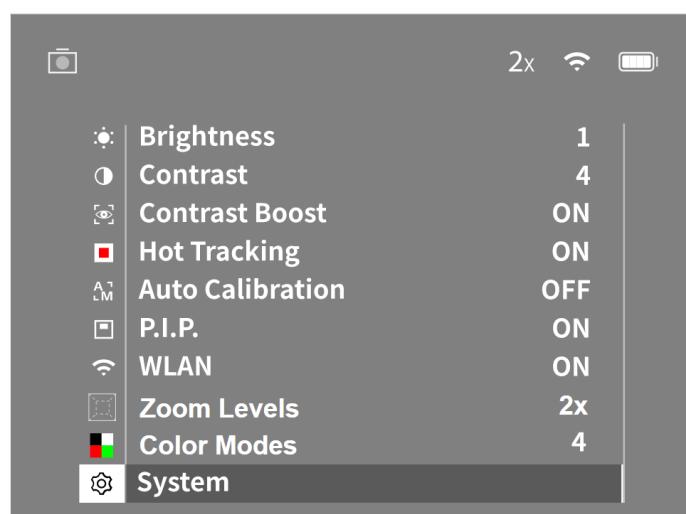
3.3.9 Zoom Levels

This value describes the maximum zoom level possible.

It can either be 1.5x, 2x, 2.5x, 3x, 3.5x or 4x.

Whatever number is selected is the maximum zoom level that can be set in the home screen when zooming.

Changing this value should look for example like changing of the contrast level of DTI 3/35 (e.g. - 2x +)



Currently "2x" magnification is the maximum the user can zoom in.

3.4 System Menu

Wifi-SSID

Firmware number

Factory Reset

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Reset Settings

Language Settings

Date/Time

DPC



Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. 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.