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ENDOSCOPE STORAGE CABINET

USER MANUAL



CHAS

bsi. ISO 9001 Quality Management ISO 13485 Medical Devices Quality Management

FM 23948 MD 76647

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General

User Manual

This manual provides instructions in the use and set-up for the LTE Scientific Ltd Scope-Store cabinet.

Scope-Store users should be given suitable training in the operation of this cabinet and connection of endoscopes to the air supply. This manual is not intended as a substitute for such training.

Classification of User Levels

For safety and security, users of Scope-Stores are classified in four User Levels:

- Operator
- Supervisor
- Manager
- Commissioning Engineer

Overview of the Scope-Store

The Scope-Store is available in either vertical hanging Endoscope format or a horizontal format where the devices are loaded into trays for processing.

The endoscope channels are regularly purged with 0.2 micron filtered air, whilst a continual flow of HEPA filtered air flushes the interior of the cabinet whilst maintaining a positive pressure. These conditions inhibit the growth of micro-organisms and the process has been validated such that correctly connected endoscopes can be stored for up to 30 days. Additionally, the Scope-Store cabinet is finished with LTE's 'sterling' Antibacterial epoxy coating both inside and out.

Endoscope identification and location within the Scope-Store is recorded on the control system via the touch-screen display, or optionally via bar-code or RFID.

Control of the Scope-Store is by means of a touch-screen which uses an intuitive menu system. Different levels of access are built into the system by means of PINs. The menus only display the options available at the access level of the current user. Thus, a user not trained and authorised for higher level access cannot accidentally gain access to the more complex functions, such as cycle configuration.

The Scope-Store control system can be configured to run a range of cycle profiles, which can be modified to suit your needs. Therefore, the screen illustrations shown in this manual may not match exactly those displayed on your unit, although they will be similar.

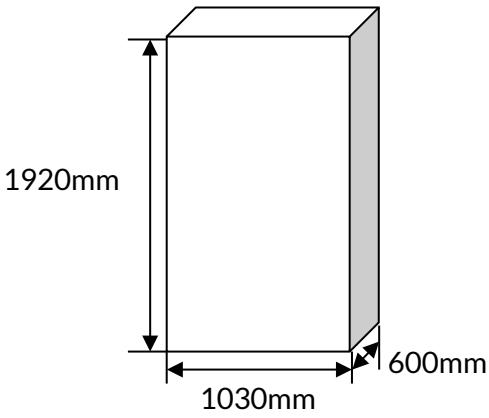
Safety Precautions

Whilst Scope-Store has built-in safety devices, its operation may be impaired if it is not used correctly and in accordance with the instructions.

Horizontal shelf-

10 endoscope capacity

Dimensions (HxWxD):

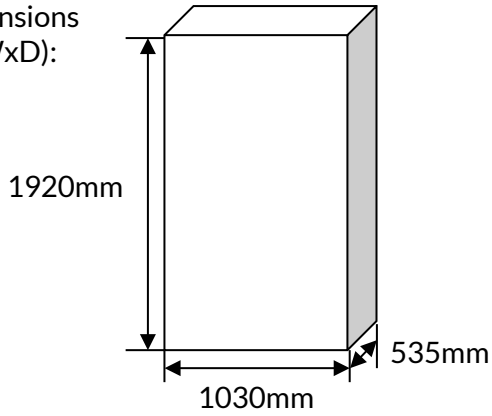




Vertical hanging-

5 endoscope capacity

Dimensions (HxWxD):

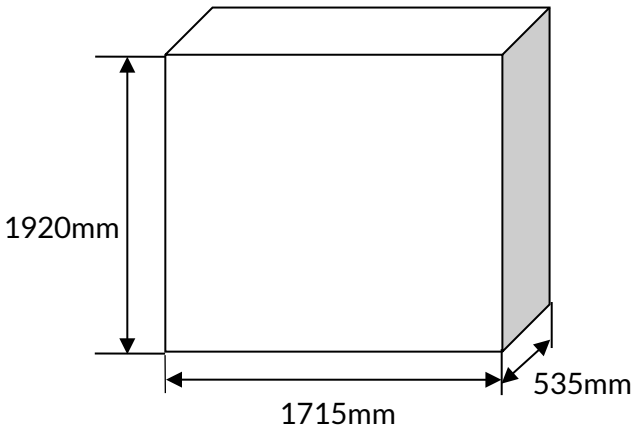




Vertical hanging-

10 endoscope capacity

Dimensions (HxWxD):





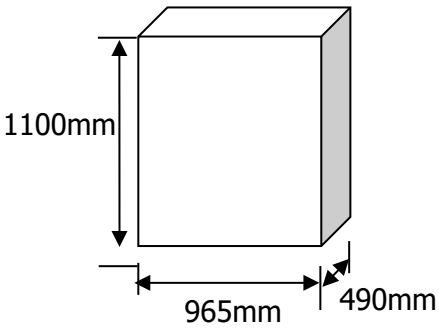
ENT Range



ENT 5-

5 ENT scope capacity

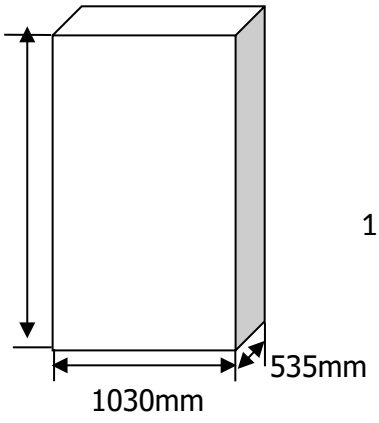
Dimensions (HxWxD):



ENT 10-

10 ENT scope capacity

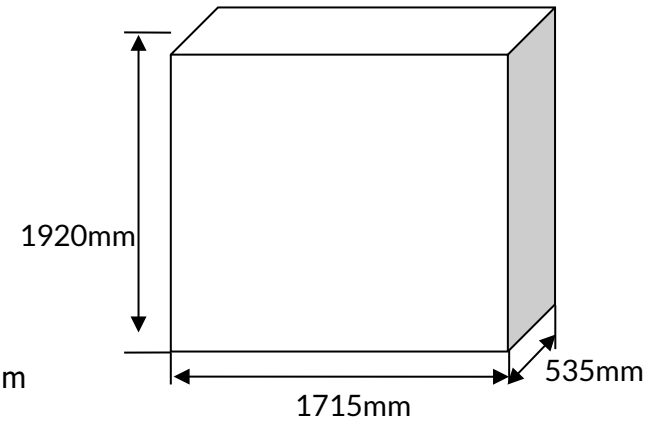
Dimensions (HxWxD):



ENT 20-

20 ENT scope capacity

Dimensions (HxWxD):



Note:

References of air flow statistics given in the normal operation do not apply to ENT scope store units

Installation of the Scopestore

Manual Handling

Always be sure to follow manual handling guidelines when lifting equipment, ensuring the correct number of people are lifting/transporting the Scopestore and the correct Personal Protective Equipment (PPE) is worn.

It is recommended that unload from delivery pallet is done by a forklift truck and that two people transport the Scopestore.

Unpacking the Scopestore

If your Scopestore has been delivered in a wooden crate, please follow this step by step guide to unpacking it correctly.

Fig 1



Fig 2



Fig 3

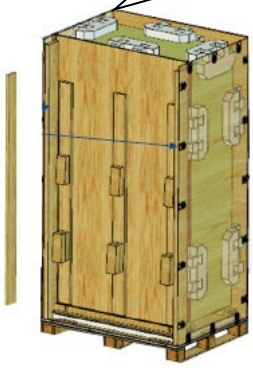


Fig 4

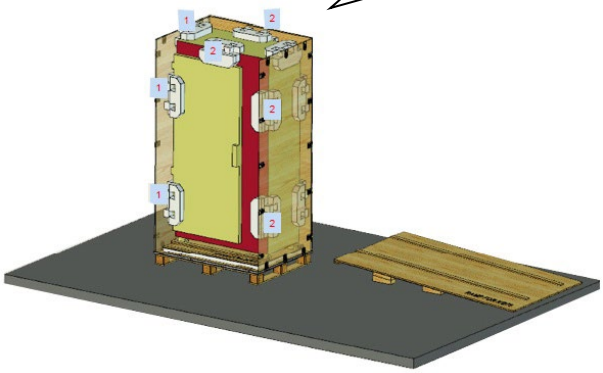


Fig 5

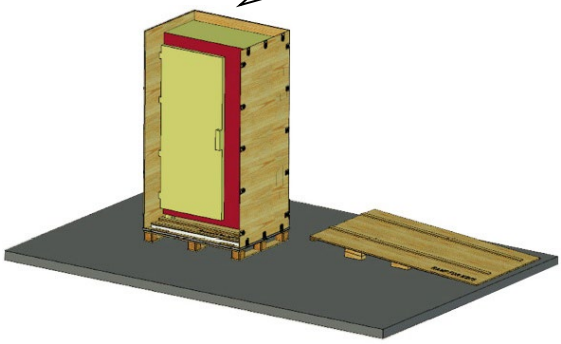


Fig 6

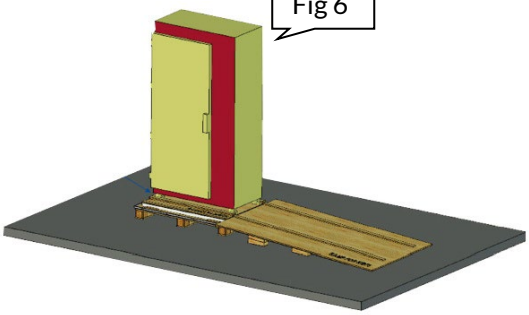


Fig 7

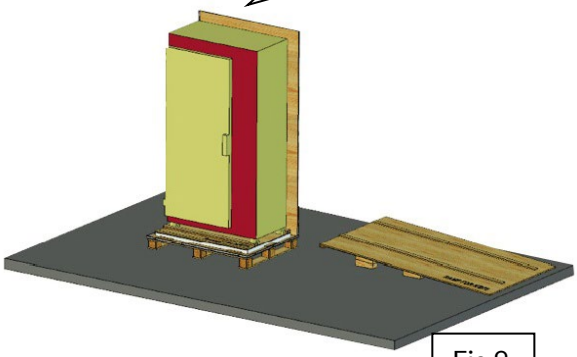


Fig 8

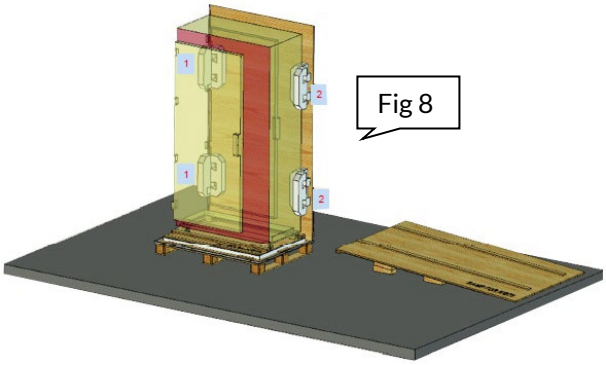


Fig 9

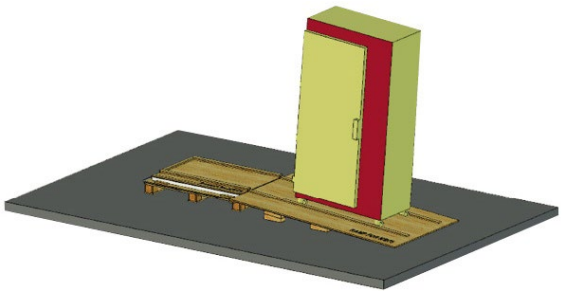


Fig 1	Shipment received
Fig 2	Remove the lid
Fig 3	Remove crate front & Ramp
Fig 4	Remove packing top & front (1&2)
Fig 5	Internal packing removed
Fig 6	Remove crate sides & rear packing (1&2)
Fig 7	Remove rear of the crate
Fig 8	Attach the ramp
Fig 9	Using two people – unload the Scope Store

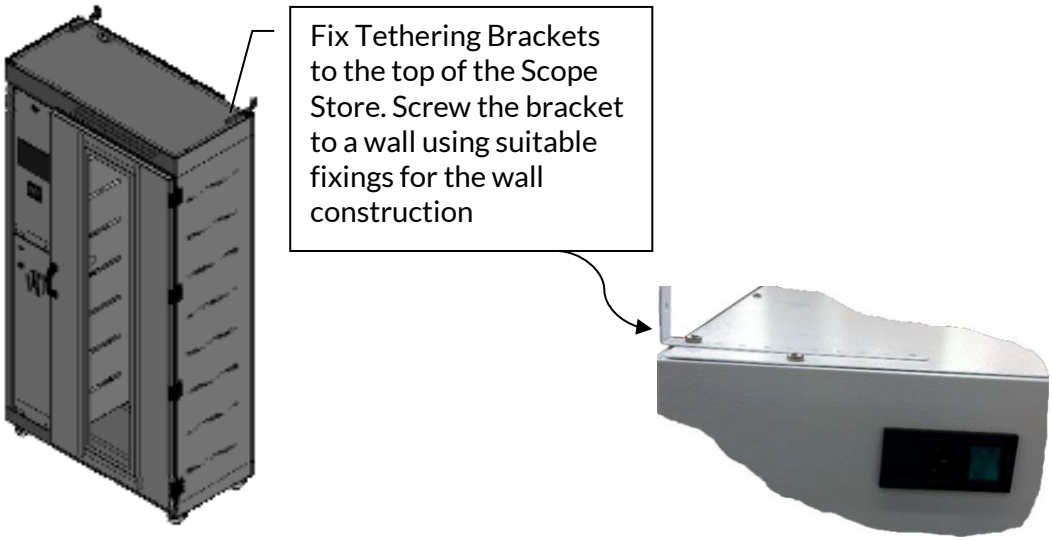
Positioning and Adjusting the levelling feet

1. Ensure the cabinet is in the correct location, if necessary, adjust the levelling feet on the cabinet ensuring that the mains power lead is not a strained connection and that all main doors and service access is fully maintained.



2. Levelling is achieved by rotating the 'red thumbwheel'. Turn the thumbwheel until the internal foot lifts the scope store and lifts the castor clear of the floor preventing movement of the cabinet.

Tethering and Adjusting the levelling feet

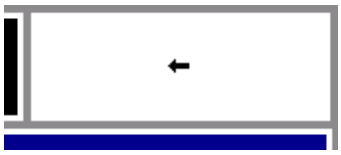


Basic Screen Features

Many screens have common buttons

The back button

Some screens have a back button in the top right-hand corner.

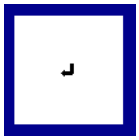


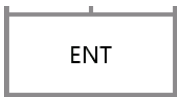
This is found on menus and interface screens. It takes you back to the previous screen and is an essential part of the navigation.

It is also used to abort certain options such as cycle start sequences.

Enter / Next Buttons.

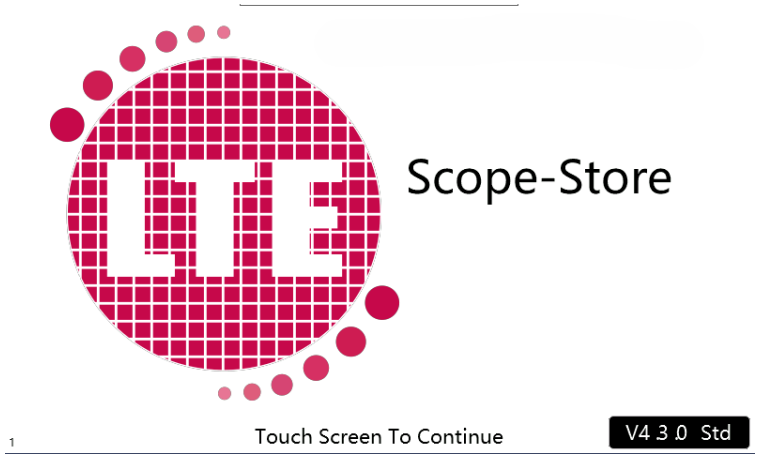
Located in the bottom right corner of many screens, such as menus and start sequences.



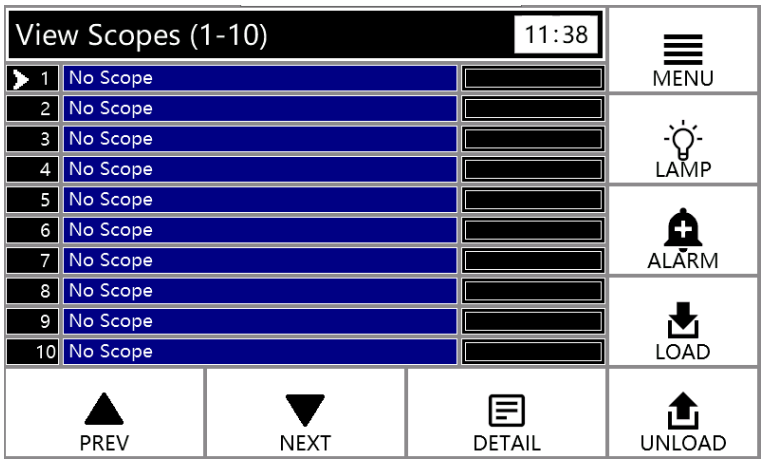


Welcome Screen

When you first power up the machine the logo screen will greet you:



Touch anywhere on the screen to move on to the following screen:



Creating / Editing Endoscope Group

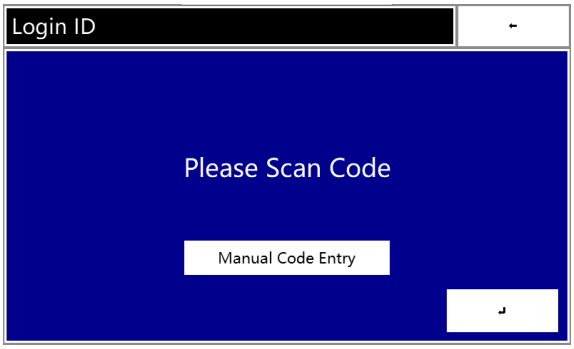
The details of any endoscope which is to be stored in the cabinet must be entered into the memory.

Up to 8 groups of up to 16 scopes can be stored in the memory.

You therefore need to create the initial groups.

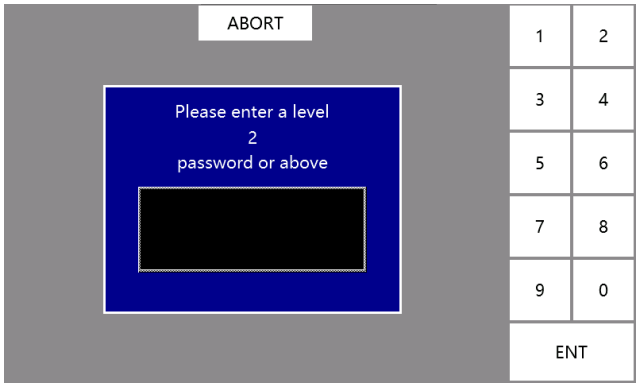
To edit / add the scope information press the **menu** button.

If you have the User Barcode/RFID option you will be asked to scan your code or chip. You can enter the code manually by pressing the 'Manual Code Entry' button. Press on the edit box to bring up the keypad.



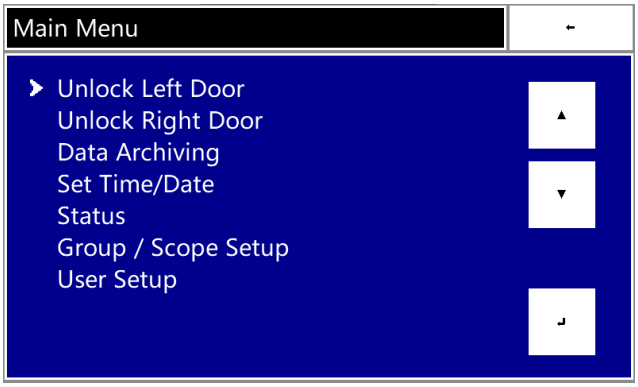


If User Barcode/RFID is not enabled you will be greeted by the PIN screen:



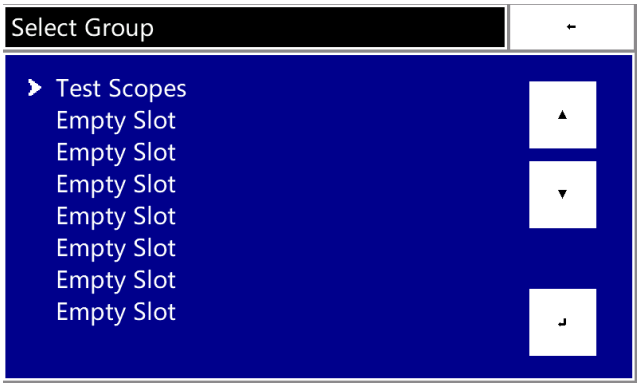
Enter or scan a supervisor level (or above) PIN / Code.

Once an acceptable PIN has been entered the following screen will appear:

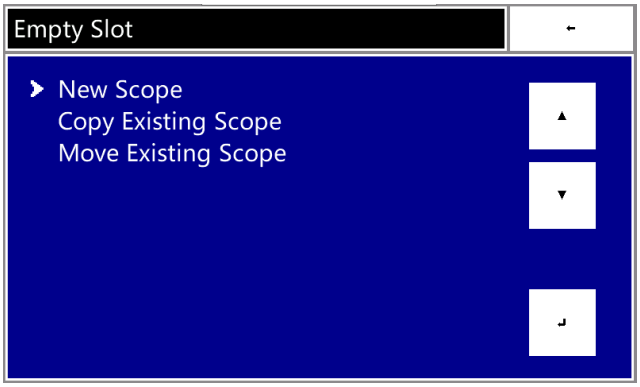


In this menu press **Group / Scope Setup**

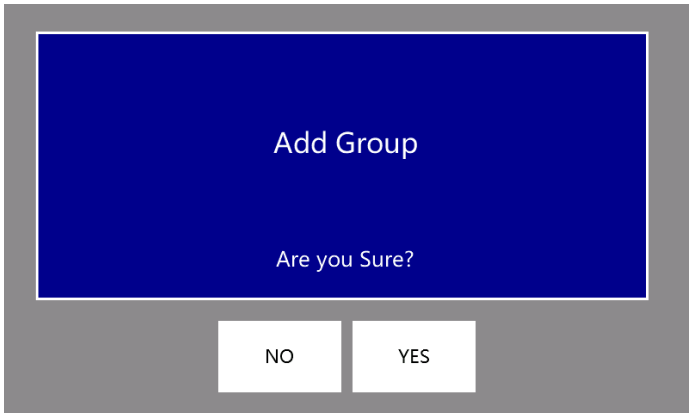
A list of 8 groups or empty group slots will appear on-screen:



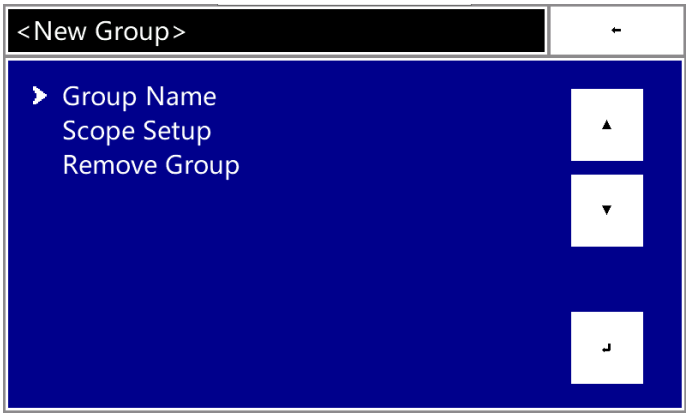
Select an empty slot and the following menu appears:



Select **New Group** to bring up the following screen:



If you have pressed the **Yes** button or have selected an existing group you will be greeted by the groups menu:



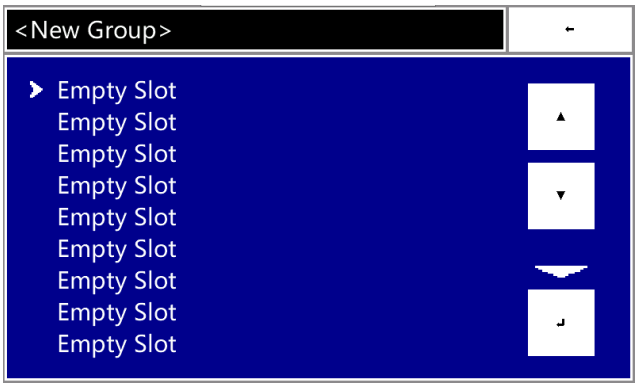
Rename the <new group> to whatever you want to call it by typing in the new name via the on-screen keypad :



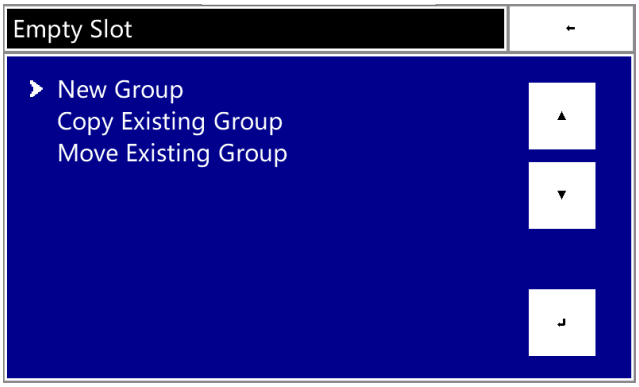
Press **ENT** to confirm you want to accept new name.

You will then be returned to the group setup menu.

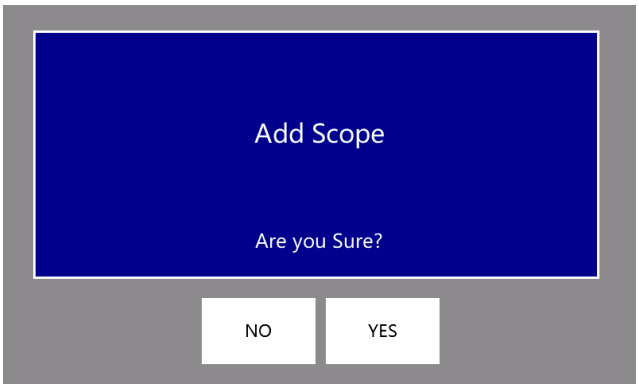
Select Scope Setup and you are then presented with a list of scopes or empty scope slots:



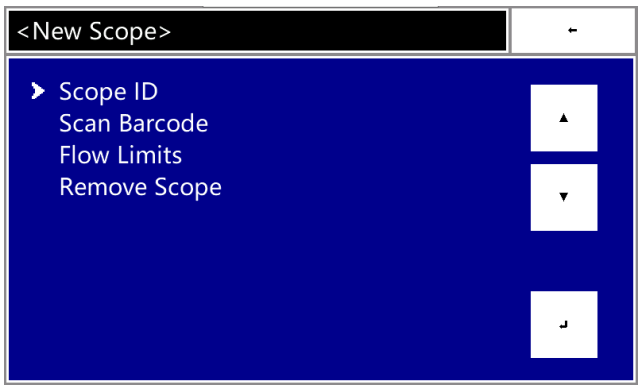
To add a new scope, select an empty slot and the following menu appears:



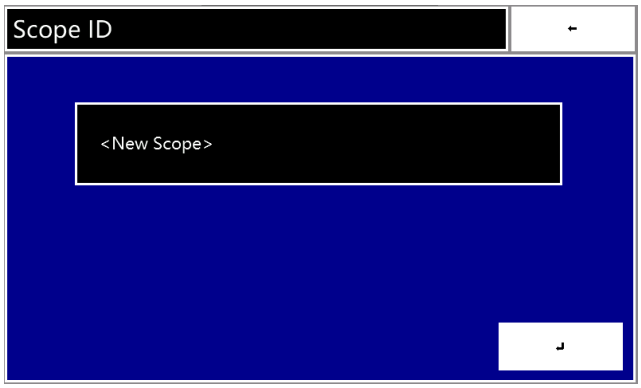
Select **New Scope** to bring up the following screen:



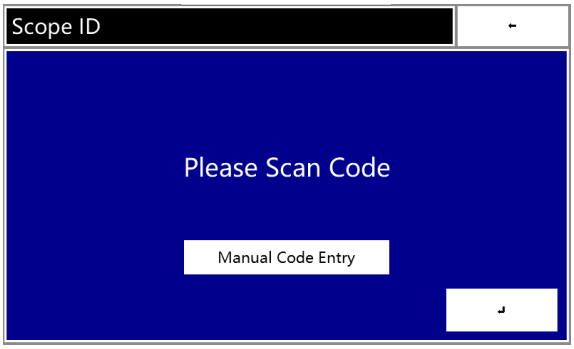
Select **Yes** :



Select Scope ID. Rename the <scope name> to whatever you want to call it by typing in the new name via the on-screen keypad.

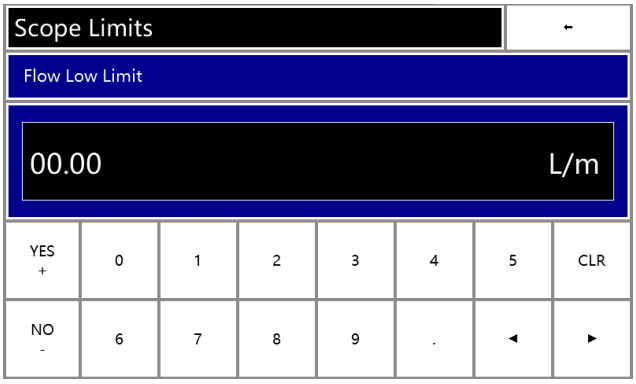


If you have the Scope Barcode/RFID option you should select Scan Barcode to allow you to associate the entry with an actual code. You can enter the code manually by pressing the 'Manual Code Entry' button.





If you know what flow limits you want to set you can also do this now by selecting Flow Limits:



To move between the low limit and high limit parameters use the left and right arrow buttons at the bottom right hand side of the screen: Once you have changed them press the back button on the top right had side of the screen.

Setting the value to 00.00 means the machine will run that scope without any limits other than the machine defaults.

Normal Operation

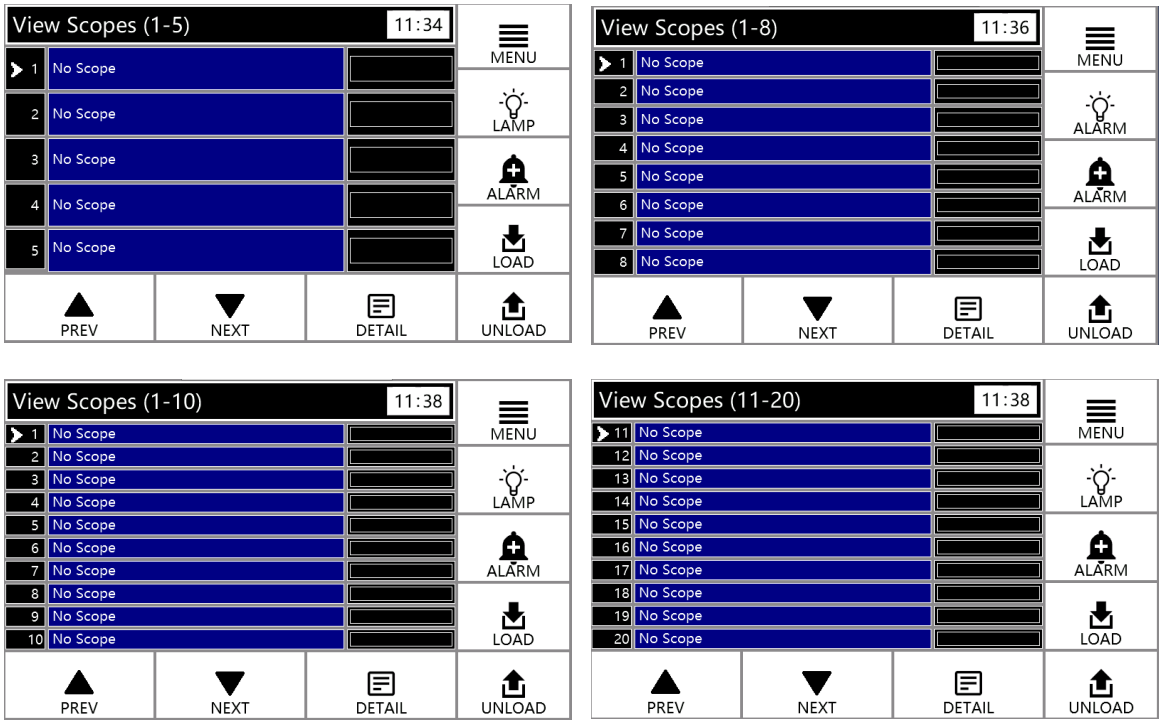
The bar colours represent:

Blank	Empty Position.
Yellow	Awaiting Door Operation.
Green	Scope in Position and cycle is running with no faults/alarms.
Red	Scope in Position but there is an acknowledged fault/alarm.
Amber/White *<Flashing>*	An unacknowledged warning is active.
Red/White *<Flashing>*	An unacknowledged fault/alarm is active.

Basic Screen Navigation

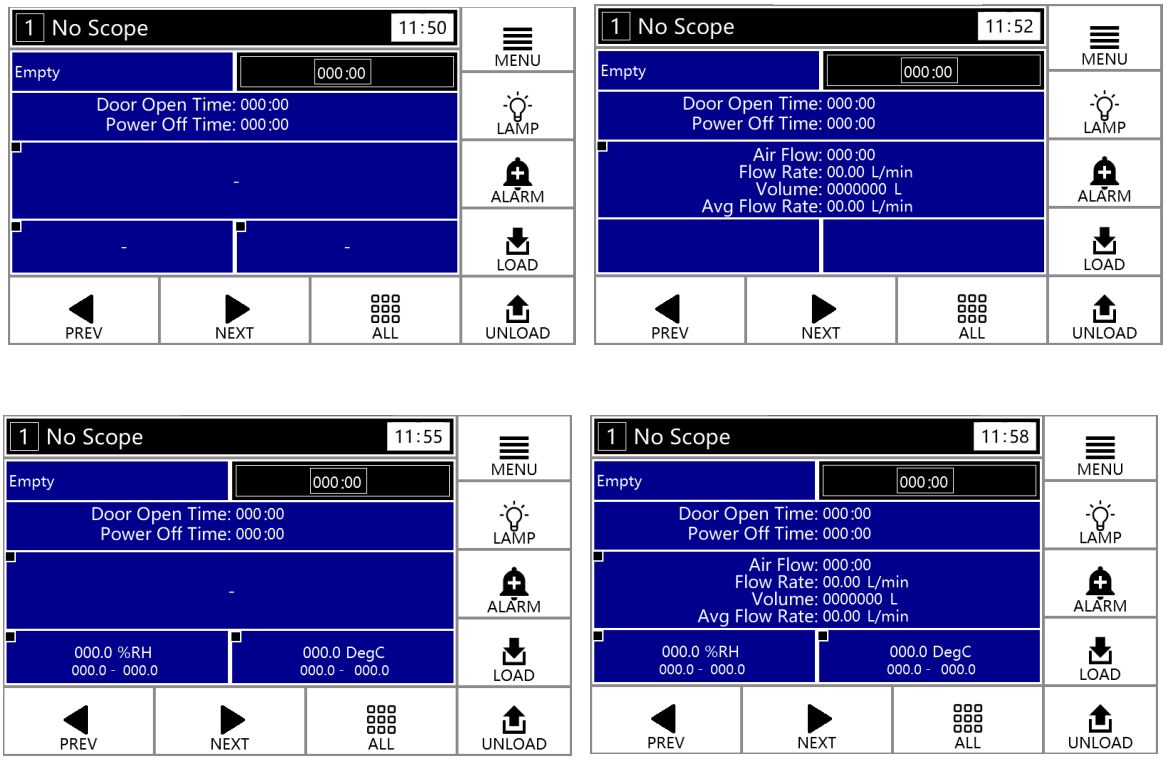
There are two basic types of main screens.

Multiple Scope Display



Which of the above screens that is displayed depends on the size of machine you have.

Detailed Display



Which one the above that is displayed depends on which features you have installed on the machine such as Flow Rate Monitoring or Environment Monitoring.

To move between these two types of screens press the **Detail** or **All** Buttons.

Loading and Unloading a Scope

N.B. - CHOOSE AN APPROPRIATE METHOD OF HAND DECONTAMINATION ACCORDING TO YOUR LOCAL POLICY BEFORE HANDLING A DECONTAMINATED ENDOSCOPE

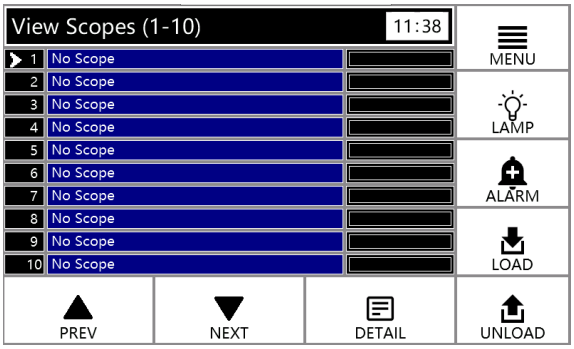
A CLEAN PLASTIC APRON AND DISPOSABLE GLOVES SHOULD BE WORN AT ALL TIMES

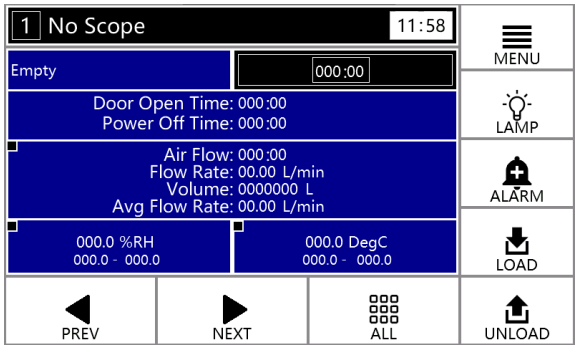
Loading a Scope

WHEN THE ENDOSCOPE HAS BEEN DECONTAMINATED THROUGH A VALIDATED AUTOMATED ENDOSCOPE RE-PROCESSOR IT SHOULD BE PLACED DIRECTLY INTO THE ENDOSCOPE STORAGE CABINET WITHOUT DELAY!

THE SCOPE CAN BE STORED FOR A MAXIMUM OF 14 DAYS

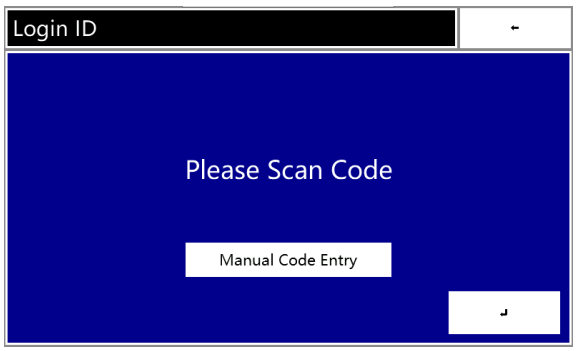
Make sure the loading position is selected using the arrow keys at the bottom left hand side of the screen.





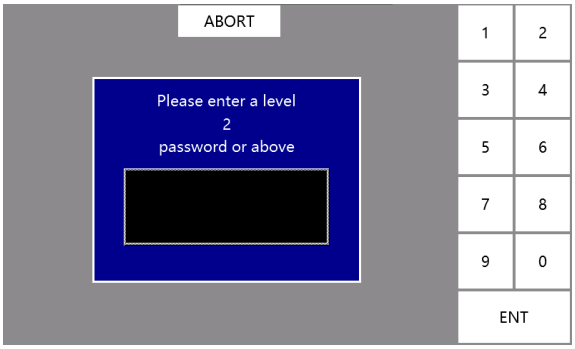
Press the **Load** button.

If you have the User Barcode/RFID option you will be asked to scan your code or chip. You can enter the code manually by pressing the 'Manual Code Entry' button.





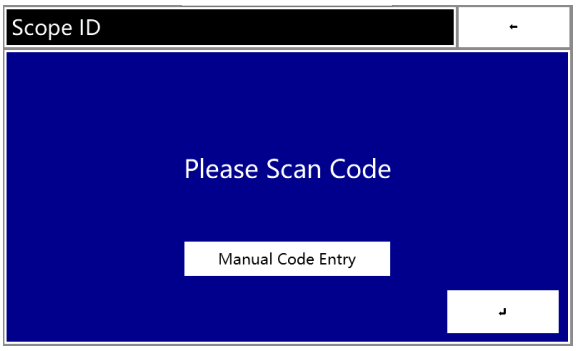
If Barcode / RFID is not enabled you will be greeted by the PIN screen:



Enter or scan an Operator PIN (level 1) or above PIN / Code.

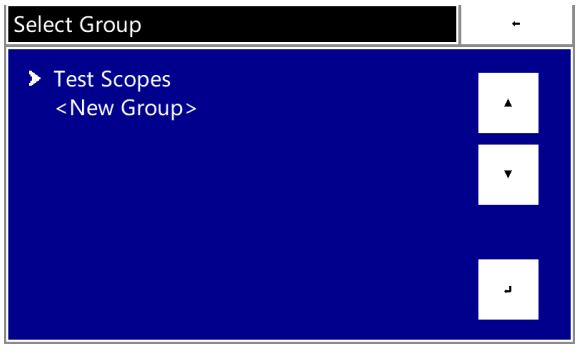
When a valid PIN is entered following screen will asked to select a scope.

If you have the Scope Barcode / RFID option you will be asked to scan the scopes barcode/chip. You can enter the code manually by pressing the 'Manual Code Entry' button.

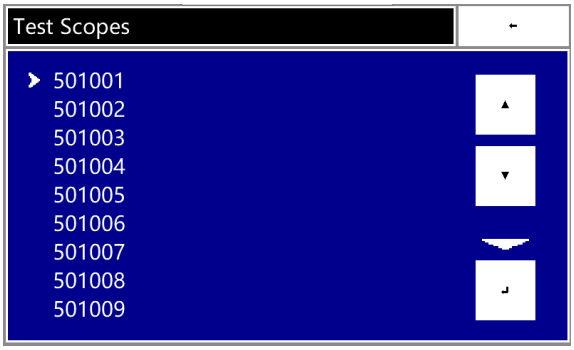




If you don't have Barcode / RFID enabled you will be asked for the scope through the menu system. First you will be asked for which group the scope comes from.

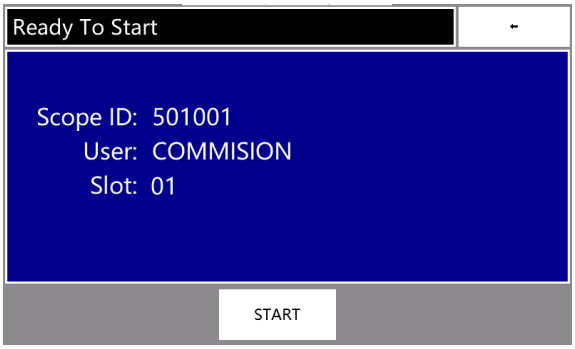


Select which group holds your scopes details, and press enter to get the scope select menu:



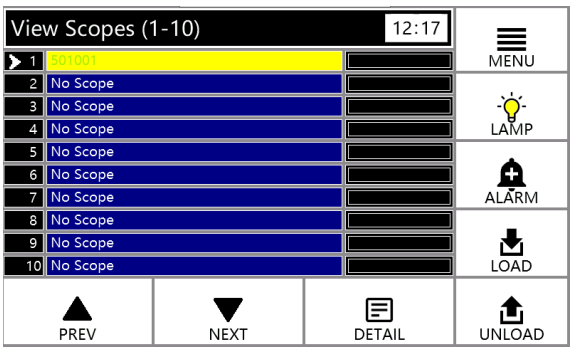
Select the scope you are about to load and press enter.

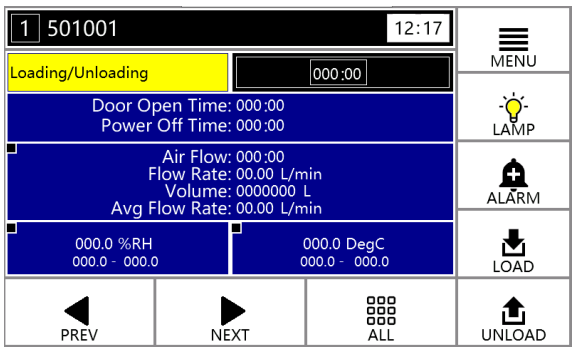
In either manual or Barcode/RFID you will then be presented with the **Ready to Start** screen.



Press START to accept

You will then be sent back to the front page.



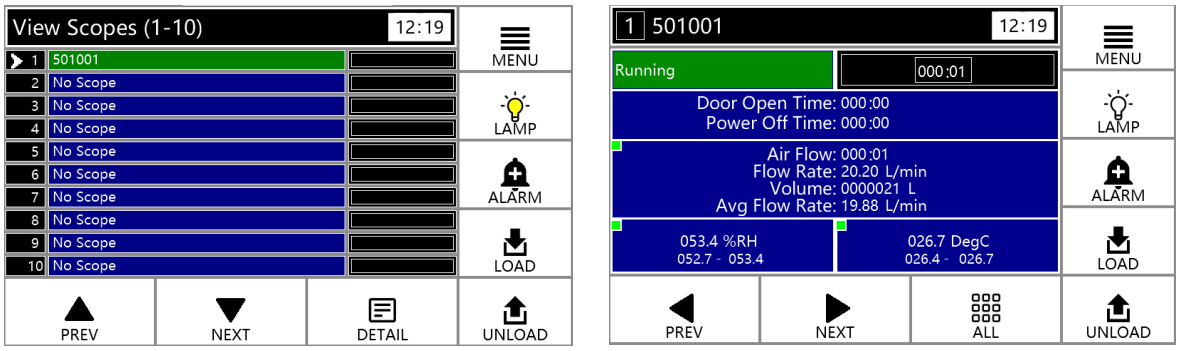


The yellow line/block indicates that the door interlock has been released, and the endoscope can be loaded.

Open the door and place the endoscope onto the allocated slot. Ensure that all of the required connectors are securely attached to the scopes ports and CPC air supply.

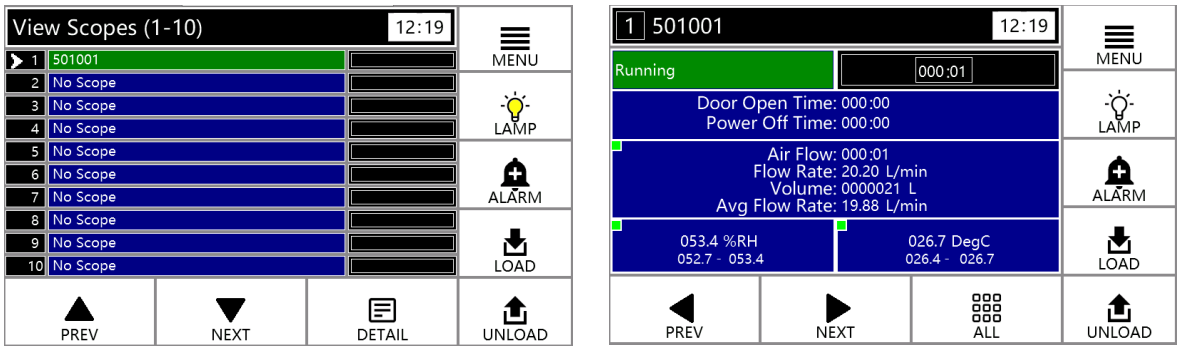
Close the door.

Once the scope has been loaded, close the door. The green line/block indicates that the cycle has started and is operating correctly.



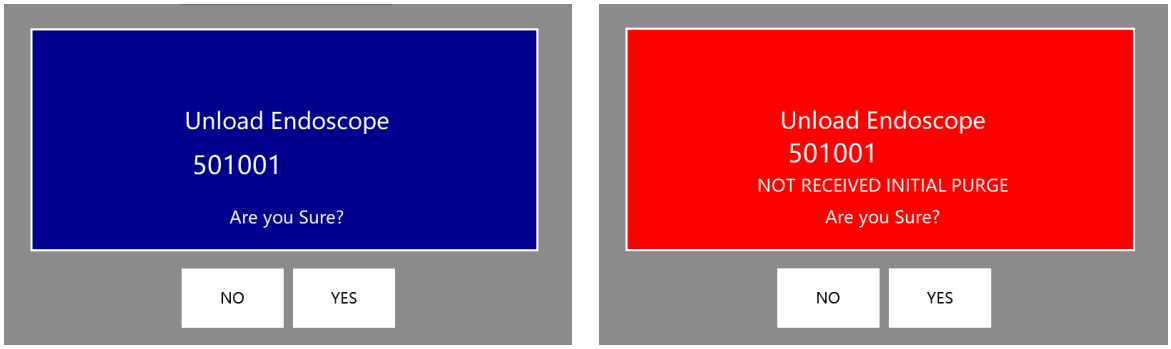
Unloading a Scope

Select the scope to be unloaded using the arrow keys at the bottom left hand side of the screen



Press the **Unload** Button

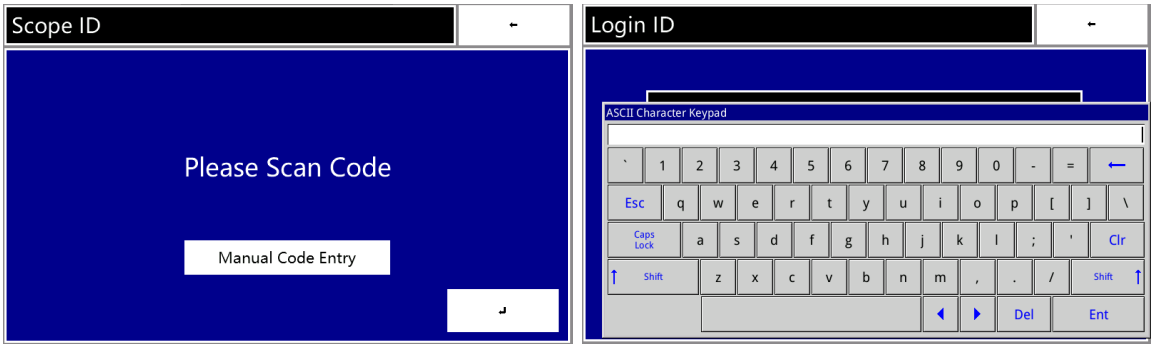
One of the following screens will appear depending on whether the scope has received its initial drying purge (described in Scope Sequencing. p.24):



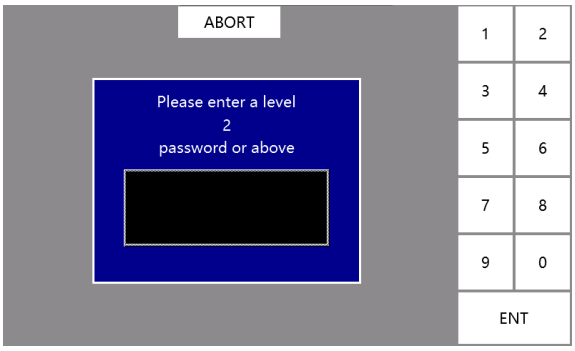
Press the **Yes** button if you are sure you want to unload.

If you select **No** you will be returned to the front screen.

If you have the User Barcode/RFID option you will be asked to scan your code or chip. You can enter the code manually by pressing the 'Manual Code Entry' button.



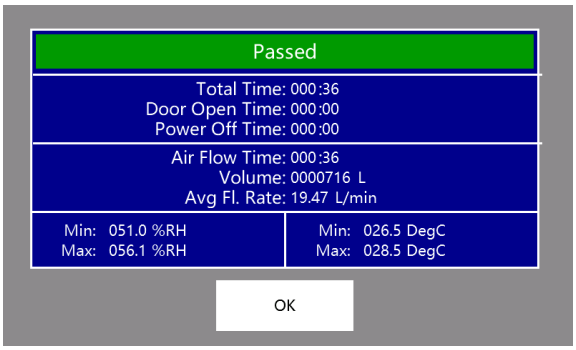
Otherwise you will be greeted by the PIN screen:



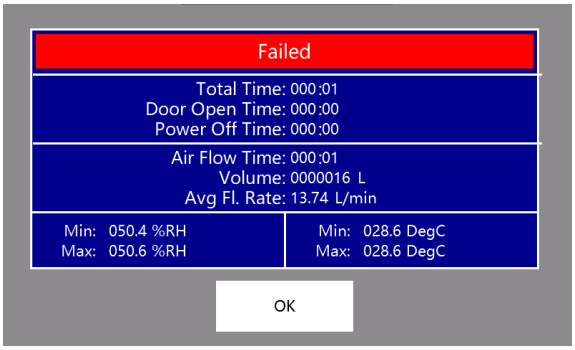
Enter an Operator PIN (level 1) or above.

A final results screen will now appear

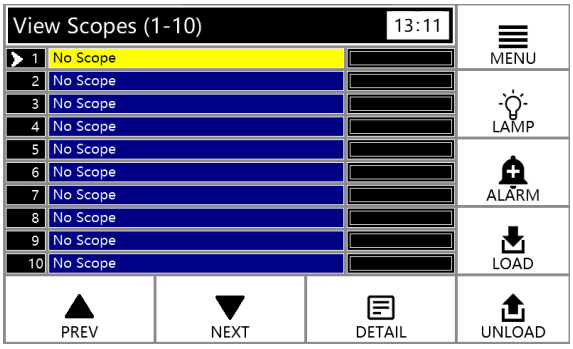
Once you have pressed the **Yes** button and if there was no alarm during the cycle the following screen will appear:

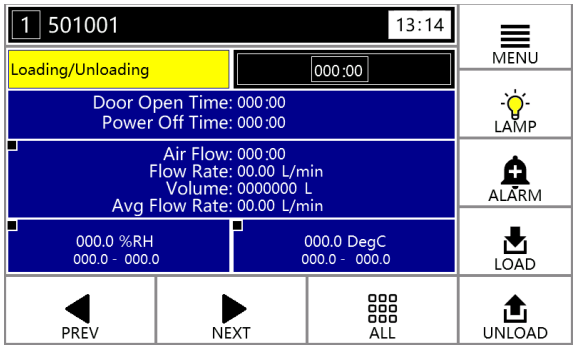


If an alarm occurred during the cycle the following screen will appear.



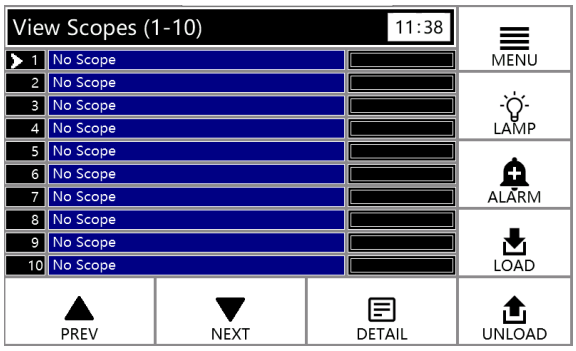
Press **OK** to continue. A cycle print-out will be produced and you will be sent back to the front screen.

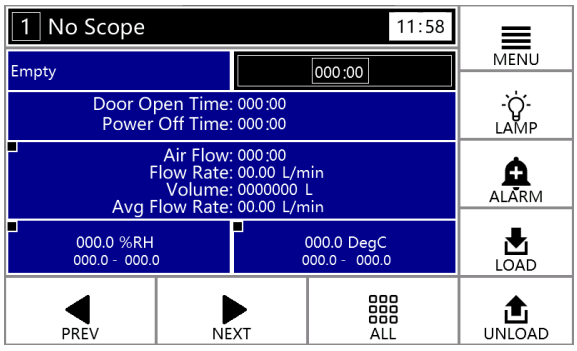




The line/block will turn to yellow indicating that the interlock has released and the scope can be unloaded.

Unload the scope and the position will turn back to blue again once the door is shut.





Printer/Printout

The printout creates a record of all operating details of the stored scope. The option of two prints per scope can be programmed into the scope if requested at time of installation.

Changing the print roll

Ensure the correct print roll is used. This is thermal paper and should be supplied by LTE. Open the printer front cover, remove the used print roll tube, place the new print roll into the machine ensure the new printer roll is placed in the correct way round, paper facing downwards, close the cover of printer ensuring a small amount of paper is exposed.

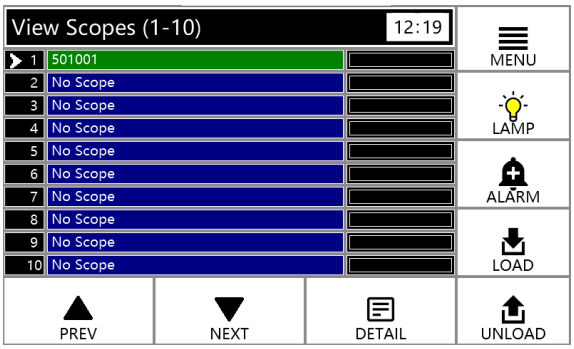
Using the Lamp

On the main screen press the **lamp** button to turn the lamp on and off.

The lamp turns off automatically after a preset time

The lamp illuminates automatically when the door is opened for loading and unloading.

Multiple Scope Display Information



This screen shows the identification of the scopes in each the positions

Line colours are represented as follows:

Blank	Empty Position.
Yellow	Awaiting Door Operation.
Green	Scope in Position and cycle is running with no faults/alarms.
Red	Scope in Position but there is an acknowledged fault/alarm.
Amber/White *<Flashing>*	An unacknowledged warning is active.
Red/White *<Flashing>*	An unacknowledged fault/alarm is active.

Bar Graphs

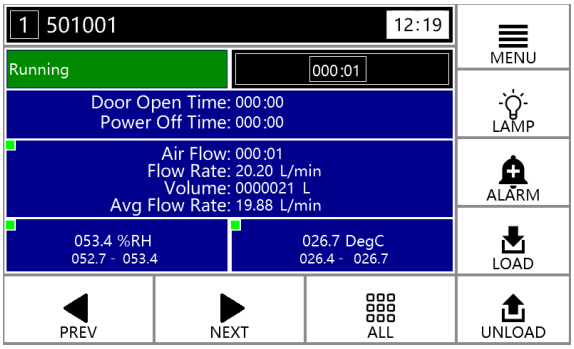
The bar graphs show the proportion of the maximum time allowed that the scope has been in the machine. The maximum time is set by the 'Max Dry Time' machine parameter.

During operation the bar graph itself will be **Black/White**. The bar to the left will have the following colours.

Green	Scope in Position and cycle is running with no faults/alarms.
Red	Scope in Position but there is an acknowledged fault/alarm.
Orange	The max storage time is approaching 90% of 'Max Dry Time'.
Red/White *<Flashing>*	The 'Max Dry Time' has expired. This will continue to flash even if the alarm it causes has been acknowledged.

Detailed Display Information

Depending on features installed the detailed screen may differ.



The screens display panel colours are as follows:

Blank	Empty Position.
Yellow	Awaiting Door Operation.
Green	Scope in Position and cycle is running with no faults/alarms.
Red	Scope in Position but with faults/alarms.

This section does not flash with the exception top section where the bar graph is located. It follows the colour scheme of the line on the Multiple Scope Display.

Other information is as follows:

Door Open Time

The total time the door has been open during the cycle.

Air Flow Time

The total time air has been pumped through the scope.

Flow Rate

Current flow rate, only shows whilst air is actively being pumped through that scope, a zero reading indicates that the scope is awaiting its sequence.

Volume

The total volume of air that has been pumped through the scope.

Average Flow Rate

The average flow rate through the scope based on the volume and the Air Flow Time.

RH Information

This panel display the current Relative Humidity the scope is exposed to and it will show the maximum and minimum values it has been while the scope has been in.

Temp Information

This panel display the current Temperature the scope is exposed to and it will show the maximum and minimum values it has been while the scope has been in.

Scope Sequencing

Air is delivered through one scope at a time in sequence, allowing the system to monitor and record the air through each scope accurately.

Air is delivered through each scope sequentially for a parameter usually set 30 seconds. Newly loaded scopes take priority and will receive an initial purge with a time usually set to 5 minutes.

For example: scopes are loaded in positions 1, 2 and 7. They will be purged and sequenced as follows:

1, 2, 7, 1, 2, 7, 1, 2, 7…. changing every 30 seconds once they have all received their 5 min purge.

However if another pair of scopes is added mid-way through sequence such as in positions 3 and 8, it will immediately stop that sequence and purge 3 and 8 for their 5 minutes initial purge.

Once complete it will continue the original sequence where it left off. But now contain the new scopes. 1, 2, 3, 7, 8, 1, 2, 3, 7, 8…..

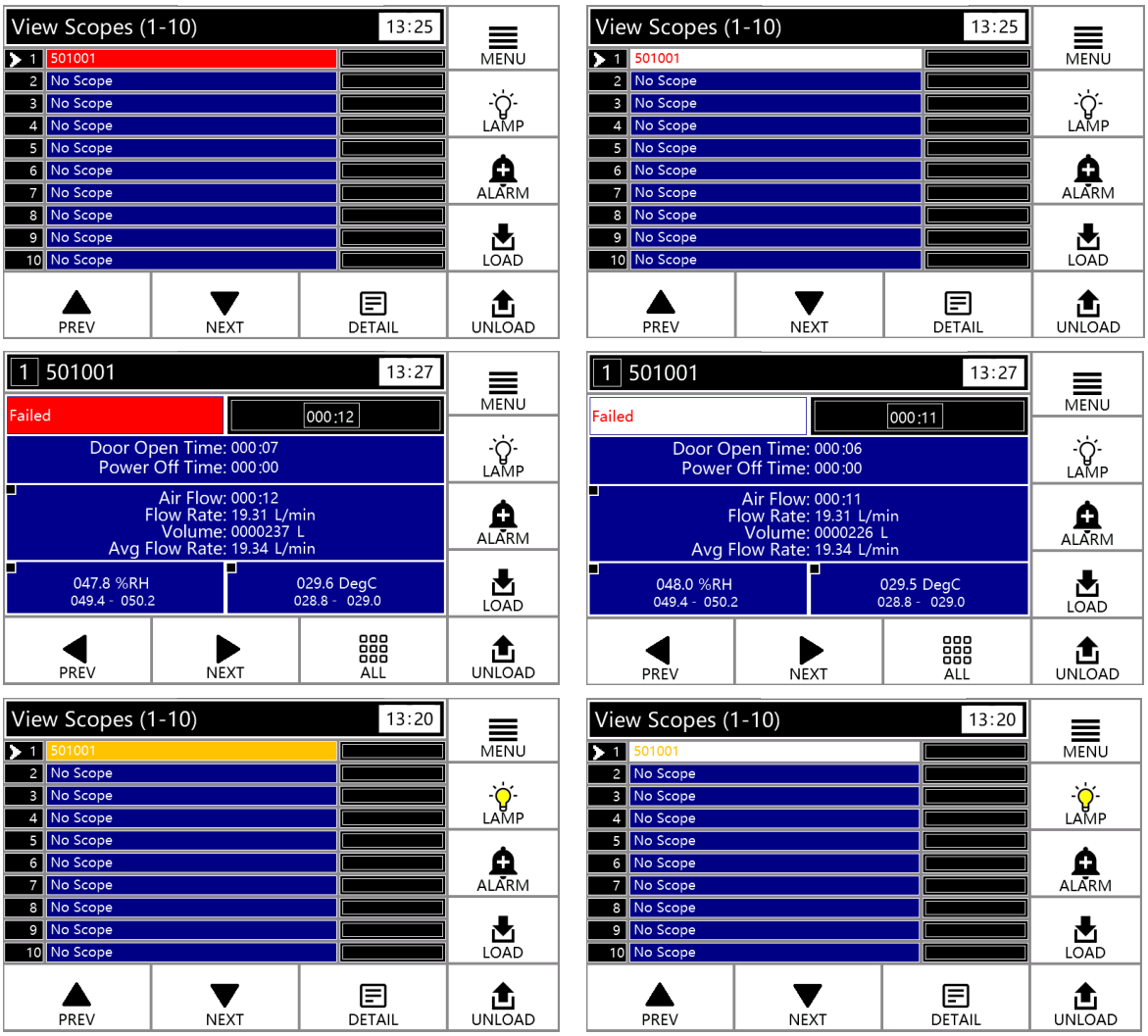
Alarm / Warnings

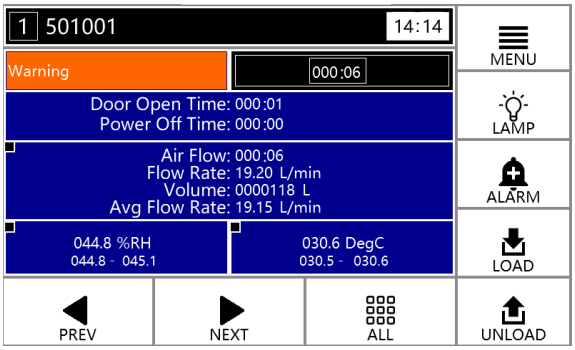
All alarms / warnings are unique to each position and will only occur whilst that position is loaded. An alarm is fatal to the processing cycle for the scope and it must be reprocessed. However a warning can be ignored but will be recorded.

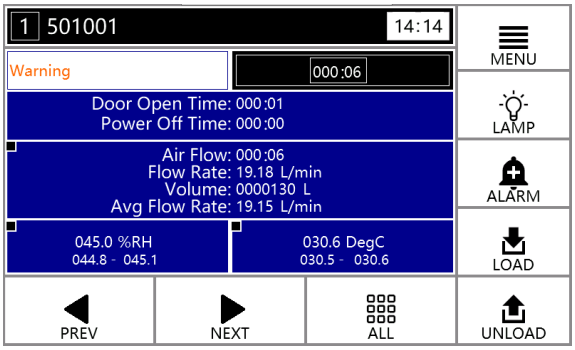
If an alarm or warning condition occurs it will require acknowledgment. This is indicated by because the line on the multi scope display and the top section of the detail screen will flash:

Amber/White<*Flashing*> An unacknowledged warning is active.
Red /White<*Flashing*> An unacknowledged fault/alarm is active.

If there are both unacknowledged alarms and warnings the alarms will take priority and therefore flash Red.







Alarm Screen Navigation

If you press the Alarm Button you will be taken to the alarm screen.

Each Alarm will be show with a colour background:

Red/White *<Flashing>* This is an Unacknowledged Alarm.
Amber/White *<Flashing>* This is an Unacknowledged Warning.
Red This is an Acknowledged Alarm.
Amber This is an Acknowledged Warning.



If you pressed the Alarm button on the Multi Scope Display you will be shown by default what alarms and warnings are happening on all scopes. It does not indicate where or on how many scopes it is active on.

If you pressed the Alarm button on the Detailed Display you will be shown by default what alarms and warnings are happening on the selected scope.

There are three buttons on this screen.

All List All Scopes Alarms/ Warnings
Selected List Selected Scopes Alarms / Warnings.
Acknowledge Acknowledge All Displayed Alarms / Warnings.

Alarm Descriptions

These are fatal to the scope cycle. The scope **will** have to be reprocessed.

Main Time Exceeded

The scope has been stored beyond its maximum storage time and should be reprocessed.

Door Time Exceeded

Door Time Exceeded alarm is triggered when the door has been open for a total time that has exceeded the value set by the parameter “Max Door Time”. This is an accumulation of periods of time the door has been open while the particular scope has been loaded into the scopestore.

Flow Too Low

Air flow through the scope channels too low.

Flow Too High

Air flow through the scope channels too high.

Power Failure

The total time of power outage has exceeded a client chosen time.

Scope Blocked

The pressure in the flow line is too high tripping the pressure switch. This indicates a blocked scope, incorrectly fitted scope or defective component. In this situation the air pump stops for 15 seconds and moves on to next scope if applicable.

Warning Descriptions

These are not fatal to the cycle scopes **WILL NOT** need reprocessing.

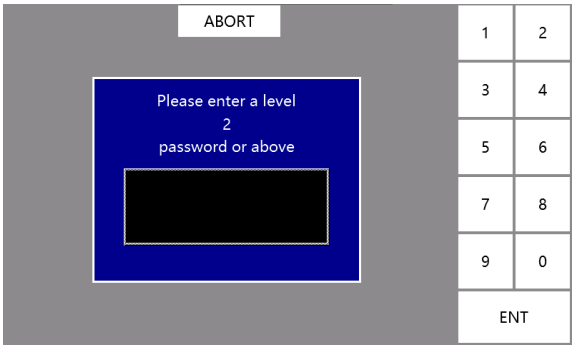
Door Left Open

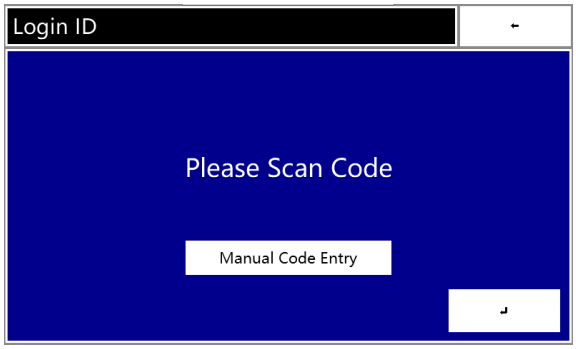
This warning is triggered when the door has been open for a period of time that exceeds the value set in the “Door Warning Time” parameter. The purpose of this is to warn the user that the door has been open for a significant period of time and acts as a prompt that the door should be closed.

NOTE: Alarm parameters require high access level passwords in order to be changed. Changing of these parameter values will affect the operation of the Scopestore and should NOT be changed.

Main Menu Operations

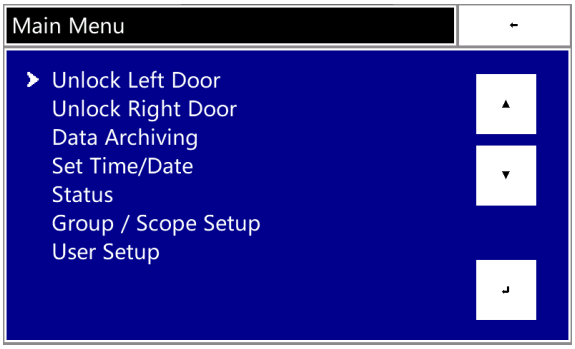
Press **Menu**:





Enter a Supervisor (or above) PIN. Operators have no access to the main menu.

The main supervisor menu is as follows:



Supervisors can access the following functions:

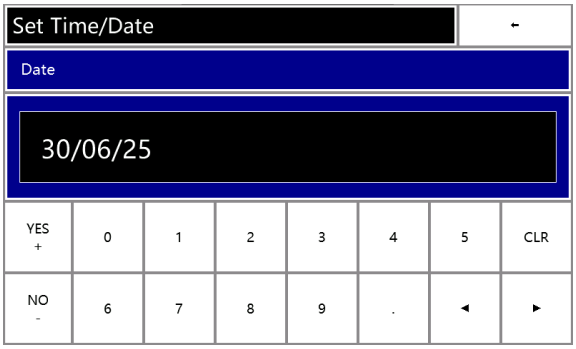
Unlock Door	Operate Door mid-cycle
Data Archiving (View/Print last run)	View/Print historical data if available
Set Time / Date	Configuring the clock
Status	View information about machine and scopes
User Setup	Configure Security (see page 42)
Group / Scope Setup	Configure Scopes (see page 45)

Unlock Door

The door can be released at any time by pressing **Door Open** in the main menu screen.

Set Time / Date

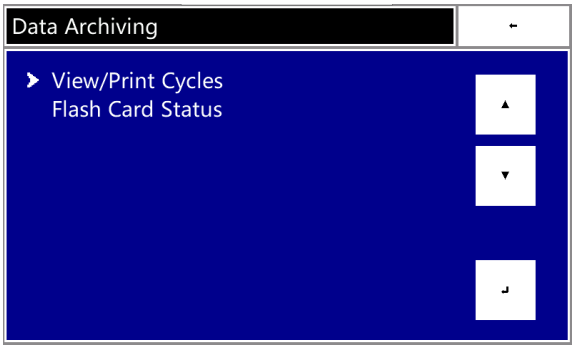
Press **Set Date/Time** in the main menu screen.



Press the left and right buttons to move between time and date.

Data Archiving

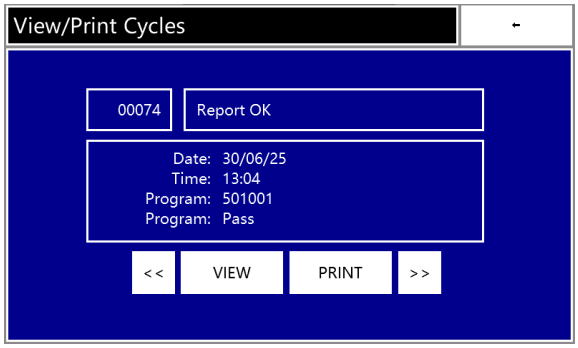
Press **Data Archiving** in the main menu screen.:



View / Print cycle and Flash card status are explained in the following pages

View Print Cycles

This allows the reprint of any stored cycle.

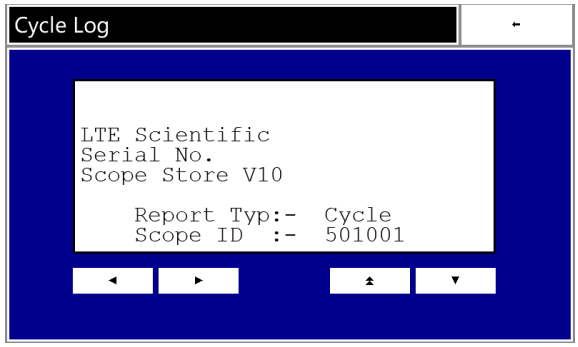


Press the arrow buttons to select a cycle log.

Once selected, wait for the status bar to read Report OK as above.

Press **Print** if required

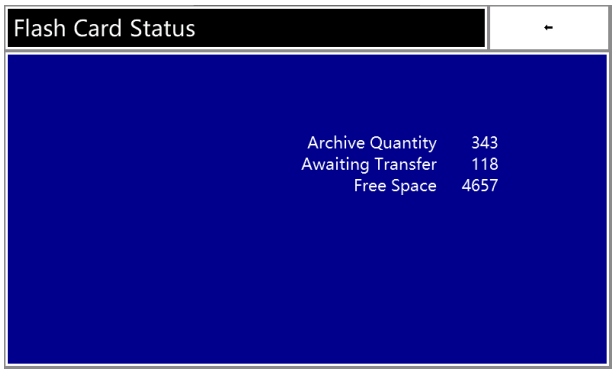
To view the cycle log, press **View**



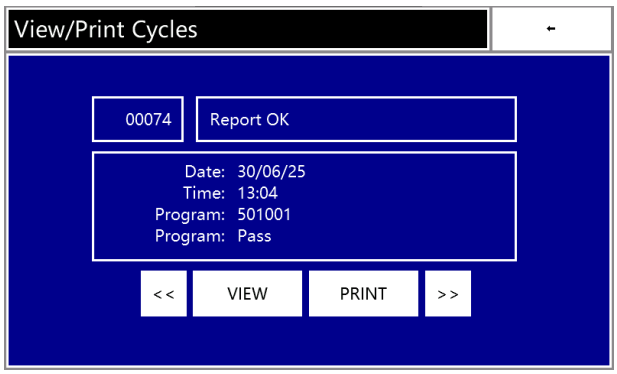
Scroll using arrows as required. The double up arrow goes back to top of log.

Flash Card Status

This screen the number of stored cycle logs and available free space

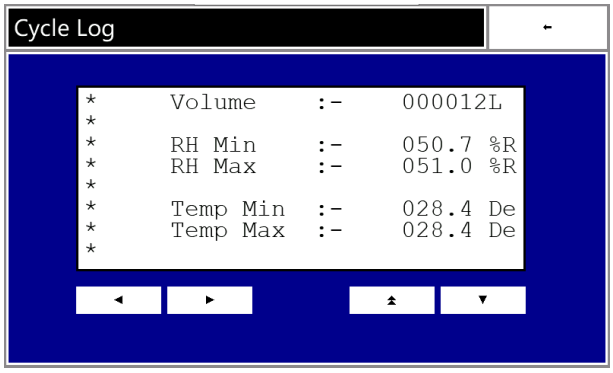


View Print Last Run



Press **Print** if required

To view the cycle log, press **View**

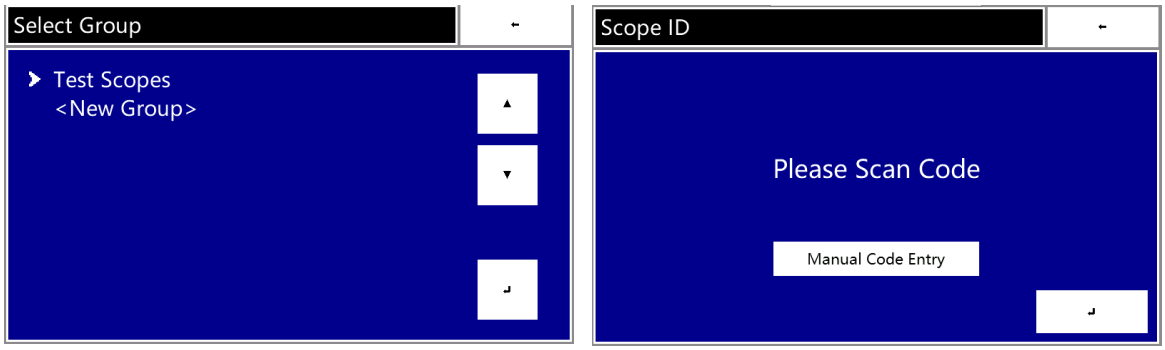


Scroll using arrows as required. The double up arrow goes back to top of log.

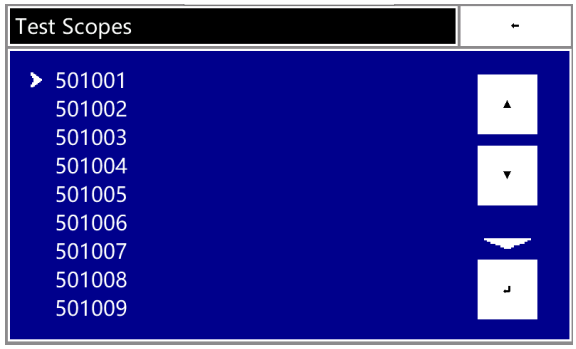
Status

Scope Statistics

This option allows you to view the cycle information for each stored endoscope.

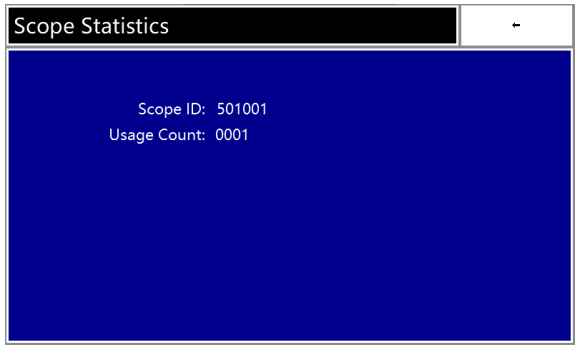


Select the group you wish to view and press **Enter**.



Select the scope you wish to view and press **Enter**

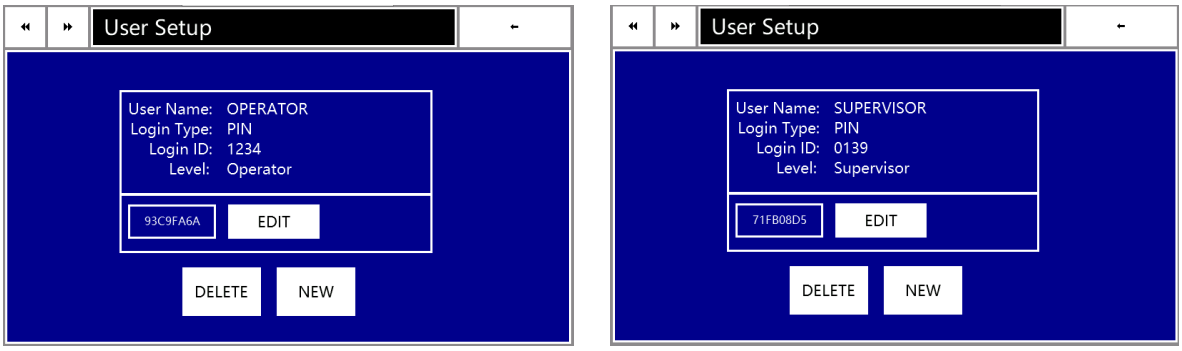
The following screen will appear



User Setup

There are three types of user **PIN**, **Barcode** and **Two Part**. Each of these types behaves slightly differently. This document covers PIN and Barcode.

Select **User Setup** in the Main Menu:



This screen allows us to add and edit user's security.

Press the left and right buttons to move between the users.

Press **Edit** to change the settings for that user as long as it is not you (see Editing buttons – Edit.)

Press **Delete** to remove the selected user as long as it is not you (see Editing buttons – Delete.)

Press **New** to Create a New User of the Default Type (see Editing buttons – New.)

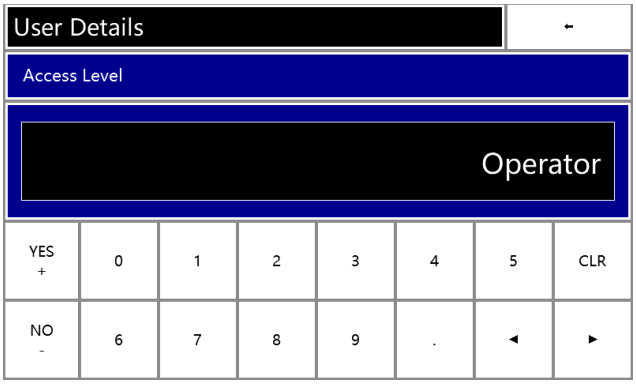
Press **Password** (only on Two Part Login Type) to change a users or your own password (see Editing buttons – Password.)

Editing Buttons

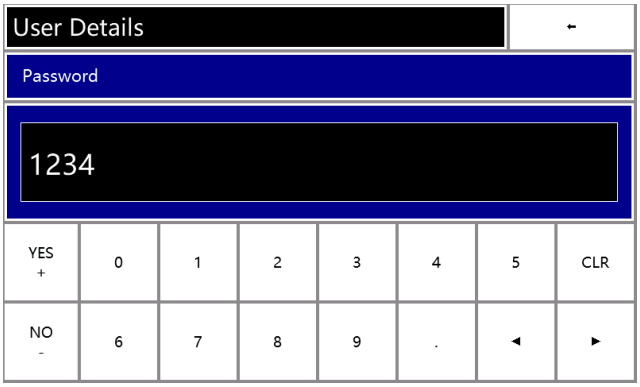
Edit

There can be one or more items you can edit. Use the left and right buttons if there is more items to change.

With all types you can change the access level of the user.

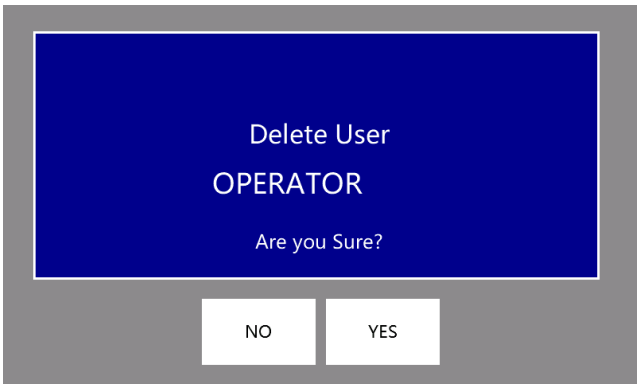


If the user type is PIN then you will also be able to edit the code.



Delete

This option will allow you to remove a user from the list.

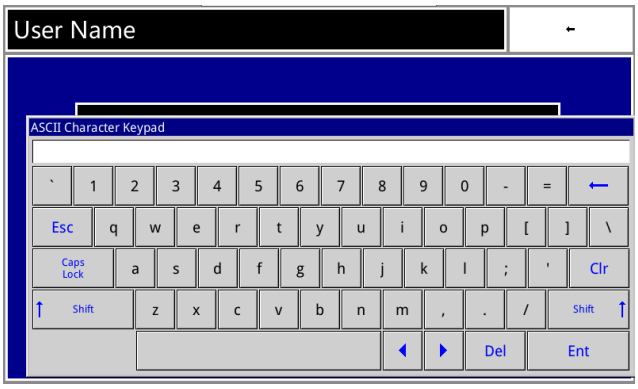


Press '**Yes**' to confirm the deletion.

New

This will create a user of the type will match the current logon method.

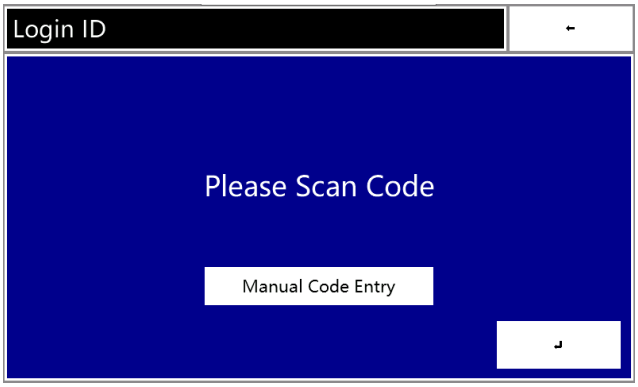
With all types the first thing you are asked for is the Users Real Name.



Press ENT to confirm.

If the user type is PIN then that's all that is required.

If the user type is Barcode you will then be asked to scan it.



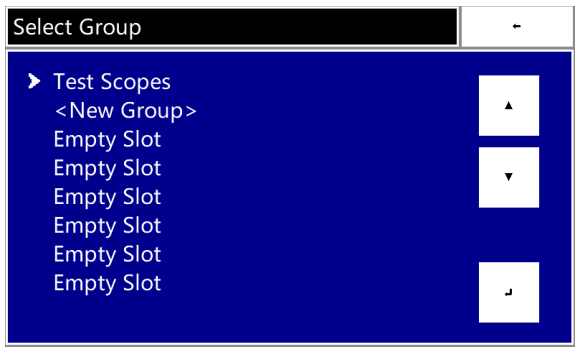
You can enter the code manually by pressing the ‘Manual Code Entry’ button on and the screen will be replaced by this one:



Press ENT to confirm.

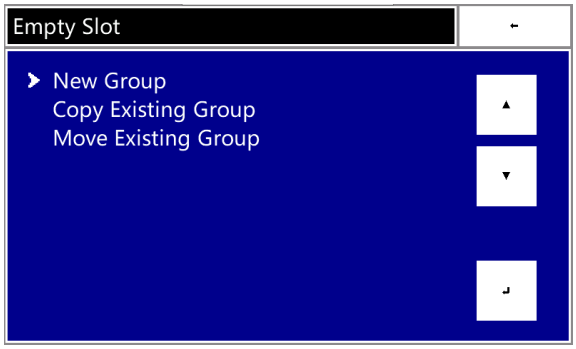
Group/Scope Setup

Select group/Scope setup from the main menu and you will be presented with a menu with all groups and empty slots available.



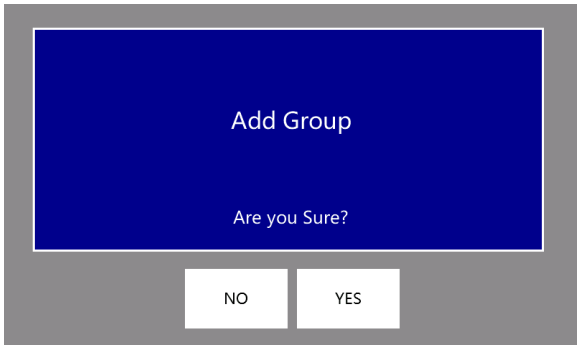
Empty Slot

If you select an empty slot then you will be presented with the following screen.



New Group

This option allows you to create a new group and the screen will indicate the following:

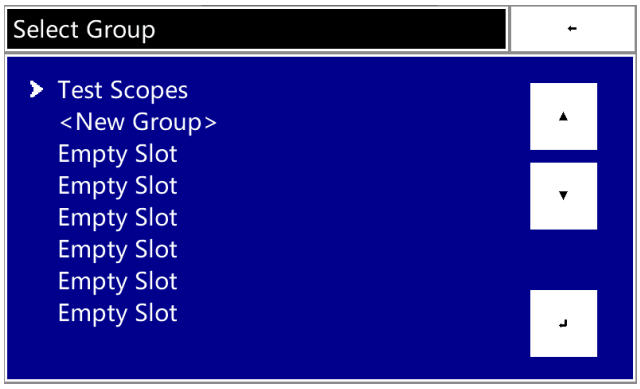


If you select 'YES' the system will create a new group and takes you to the new groups used menu.

Move / Copy Existing Group

These options allow us to select another group that we want to copy / move the configuration from.

If you click either of these options you will be given the list of groups you can copy from.

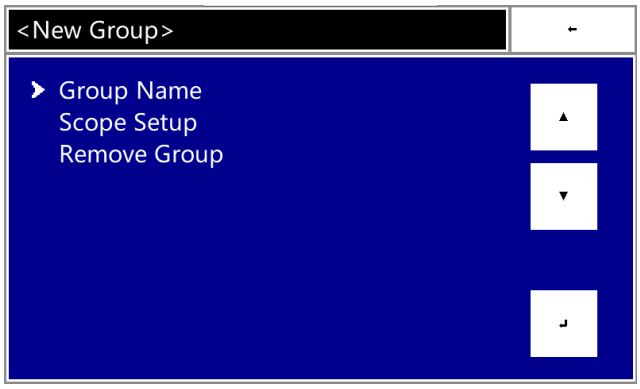


Select a group and that group will then copy / move into the new position.

It will then automatically select it and you will be given the usual menu as if it was selected but it is now in new position.

Used Slot

If you select an already used slot then you will be given the following menu:



Group Name

This option allows us to rename our Group



Remove Group

This option allows us to remove our group altogether including all its scopes.



Press yes to remove the entire group.

SCOPE-STORE DECONTAMINATION/CHECKS

USE A APPROPRIATE METHOD OF HAND DECONTAMINATION ACCORDING TO YOUR LOCAL POLICY BEFORE DECONTAMINATION COMMENCES

EQUIPMENT REQUIRED

RECOMMENDED DISINFECTANT WIPES
DISPOSABLE APRON
DISPOSABLE GLOVES
SCOPE STORAGE CABINET LOG BOOK FOR RECORD KEEPING

1. DECONTAMINATE ALL SURFACES OF THE CABINET INSIDE AND OUT BY USING THE RECOMMENDED DISINFECTANT WIPES - RECORD IN THE LOG BOOK - **MINIMUM WEEKLY**

2. DECONTAMINATE THE BASKETS (SHELF LOADED MODELS ONLY) USING A RECOMMENDED DISINFECTANT SPRAY THEN WIPE THE SURFACE, ALTERNATIVELY USE RECOMMENDED DISINFECTANT WIPES OR SEND FOR STERILISATION **MINIMUM DAILY**

3. ENSURE THE AIR VENTS ARE DUST & OBSTRUCTION FREE **MINIMUM WEEKLY**

4. CHECK THE DOOR LOCKS ARE FUNCTIONING BY A GENTLE PULL ON THE DOOR HANDLE WHEN THE MACHINE IS IN USE - RECORD IN THE LOG BOOK **DAILY**

5. CHECK THE AIRFLOW STATUS PER PROTOCOL IN LOG – RECORD IN LOG BOOK – **DAILY/WEEKLY**

6. CHECK THE PRINTER VERIFICATION STATUS – ENSURE THAT THE PRINT PAPER IS IN PLACE CORRECTLY AND THE PRINT QUALITY IS SUFFICIENT – RECORD IN THE LOG BOOK – **DAILY**

7. WHEN CLEANING/ MAINTAINING YOUR CONNECTOR SETS PLEASE ENSURE YOU FOLLOW SEPARATE INSTRUCTIONS AS RECEIVED WITH YOUR CONNECTOR SETS

Technical Support and Services

Commissioning

At the point of installation, the cabinet must be tested to the manufacturer's protocol which includes microbiological testing.

Servicing - first year

The cabinet will require a 1 x 6 monthly service check with the necessary consumables replaced if required in order to ensure the performance of the cabinet. Microbiological testing is also recommended.

Servicing - subsequent years

The cabinet will require a 2 x 6 monthly service check with the necessary consumables replaced which ensures the performance of the cabinet. Microbiological testing is also recommended

Warranty

The cabinet will be guaranteed for a period of 12 months from date of shipment. The guarantee covers all non-consumable parts and labour (parts only if exported).

LTE Endoscopy services

LTE have a nationwide service team which carries out all installations, emergency callouts, servicing and validation.

If you require assistance please contact **LTE Scientific Ltd, 'service department'** on

Tel: 01457 876221 Email: www.lte-scientific.co.uk

Consumable Parts

5, 8 &10 Way Parts

Part No.	Description
1500004	PRE FILTER
1500040	CHAMBER HEPA FILTER
1500006	INLINE FILTER DISPOSABLE
251474	PRINTER PAPER ROLL

Maintenance of your scope store

To assist trouble free operation, LTE recommends that the following consumable items be replaced at regular intervals throughout the year.

Replacement parts period –

Part	3 Months	6 Months	9 Months	12 Months
Inline HEPA Filter	✓	✓	✓	✓
Chamber HEPA Filter	✓	✓	✓	✓
Pre Filter	✓	✓	✓	✓
Compressor Filter	✓	✓	✓	✓

Depending on how regularly the scope-store is disinfected, LTE also recommend changing square rubber foot pads (Part number:600133) every 6-8 years.