



NewGen ^{NDT}
NEXT GENERATION NDT SOLUTIONS

Innovation in NDT

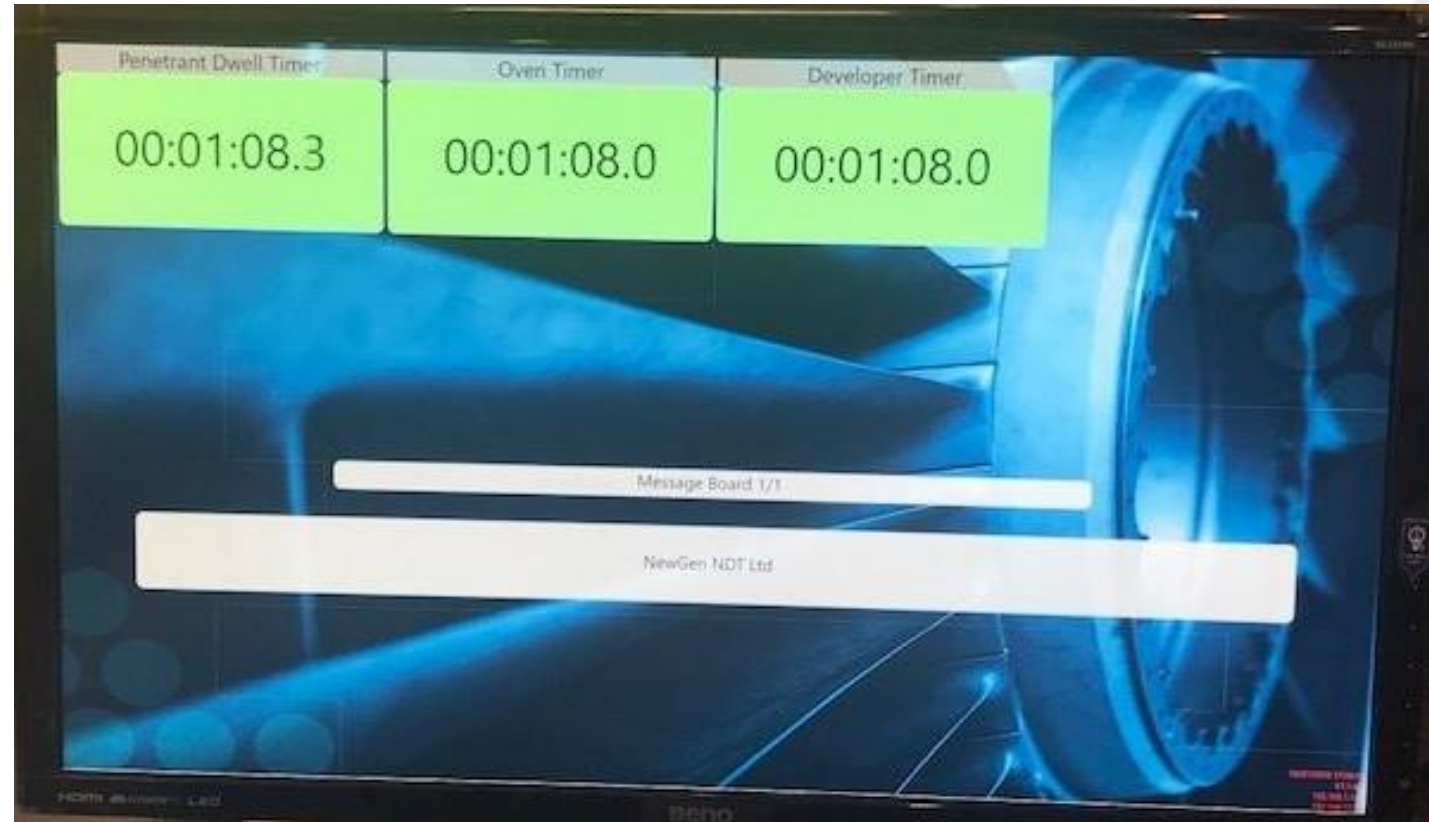
**Paint shop process management
systems**

Live screen in Paint shop area

Live screen gives the user a visual aid for all timers in use.

When a timer is out of tolerance the live screen will visually represent this & an audio alarm will sound to alert operators.

All timer alerts can be configured to send automated emails containing key details of the event.



Oven temperature data

Oven sensor data allows users to view temperature data of the oven at an time of processing , during processing or after the processing of parts.

Store historical temperature data for traceability/conformance compliance.

Automatic populates control check with temperature at the time operator completes the control check.



Configuration- Overview

Configuration enables the user to set up the system to their own specification requirements & monitor real time live data.

Functions available

Enter the users details

Set up user alert contacts

Set up document alerts

Set up machine alerts

Once all the above is set up the user will receive automatic emails on the set dates which have been inputted.

CONFIGURATION

SENSORS MACHINE ALERTS DOCUMENT ALERTS ALERT CONTACTS USERS

Create new Show Archive

Id	Username	Role	Fullname	Stamp
2	Admin	Supervisor	NewGen Admin	Edit Delete Archive
10	MervynAS	Supervisor	Mervyn Ashford	Edit Delete Archive
11	KieranR	Supervisor	Kieran Rigby	Edit Delete Archive
1011	Admin	Supervisor	NewGen Admin	Edit Delete Archive

SENSOR ANALYSIS CONFIGURATION DOCUMENT STORAGE OPERATOR STATISTICS REPORTS

Document Storage- Overview

Collate all documents in one centralised area.

C.O.C'S, P.O's, specifications, work instructions, operators certifications, calibration certifications & many more.

Set expiry dates and count down dates in order to have automatic email reminders.

Search function enables users to find the key documents within seconds.

Perform your audits from one centralised location instead of running round from department to department.

DOCUMENT STORAGE All

[Upload new](#) [Manage Folders](#)

Details

Name Show Archive

Id	Name	Folder	Description	Expiry	
4	trail	Procedures and W.I.	PDF DOC TRIAL	15/08/2016	Edit Download Delete Archive
9	PT operators Skills matrix	Skills Matrix	AI PT operators	08/10/2017	Edit Download Delete Archive
10	Water pressure product impact report	Reports	0001		Edit Download Delete Archive
11	1	Reports	11		Edit Download Delete Archive
12	Defect report	Reports	xxx		Edit Download Delete Archive
13	test 1	Reports	test 1		Edit Download Delete Archive

SENSOR ANALYSIS **CONFIGURATION** **DOCUMENT STORAGE** **OPERATOR** **STATISTICS** **REPORTS**

Operator- Overview

Enables users to perform control checks, communicate through message board via the live screen.

Log book can be pre populated via uploading .CSV file.

Generate priority lists of work & log work in log book.

Control checks- Eliminate human error.

Digital log cure/temperature data, shelf-life control information & any other checks required.

Messages – Communicate with a simple message or priority list between management or shift to shift.

All messages appear on live screen.

The screenshot displays the OPERATOR control panel interface. At the top, there are three buttons: CONTROL CHECK, MESSAGES, and LOG BOOK. Below these are tabs for Shift Checks, Weekly Checks, and Show Archive. An Add button is visible. The main area contains a table with the following columns: Date, UVA Intensity Wash Off μW/cm², Ambient White Light LUX, Penetrant contamination check, Performance system check (TAM Panel), Developer contamination, Developer caking, Airline Cleanliness, FPI Area cleanliness, UV Inspection Lamp μW/cm², Ambient White Light Wash Off LUX, Water Temperature °C, Water Pressure PSI, Air Pressure PSI, User, and Stamp. The table lists several entries with their respective values and status. At the bottom, there is a navigation menu with icons and labels for SENSOR ANALYSIS, CONFIGURATION, DOCUMENT STORAGE, OPERATOR, STATISTICS, and REPORTS.

Date	UVA Intensity Wash Off μW/cm²	Ambient White Light LUX	Penetrant contamination check	Performance system check (TAM Panel)	Developer contamination	Developer caking	Airline Cleanliness	FPI Area cleanliness	UV Inspection Lamp μW/cm²	Ambient White Light Wash Off LUX	Water Temperature °C	Water Pressure PSI	Air Pressure PSI	User	Stamp
03/01/2017 10:28:04 AM	100	1	OK	1	1	OK	OK	OK	1200	1	21.74	31.93	23.75	NewGen Admin	Archive
31/12/2016 11:33:47 AM	1959	19	OK	5	9	OK	OK	OK	1232	5	null	null	null	NewGen Admin	Archive
30/11/2016 11:21:47 AM	234	18	OK	6	7	OK	OK	OK	1857	5	null	null	null	NewGen Admin	Archive
28/11/2016 12:52:59 PM	134	13	OK	5	5	OK	OK	OK	1234	5	null	null	null	NewGen Admin	Archive
28/11/2016 12:38:42 PM	150	18	OK	5	9	OK	Fault	OK	1234	100	null	null	null	NewGen Admin	Archive
17/11/2016	12		Fault			Fault	OK	Fault	1.5		null	null	null	NewGen Admin	Archive

Log book enables users to track the work through the process giving specific location and times of process along with predicated finish times.

All control checks are configurable to users requirements.

All the features are accessible remotely from any computer/laptop within the facility.

Stats - overview

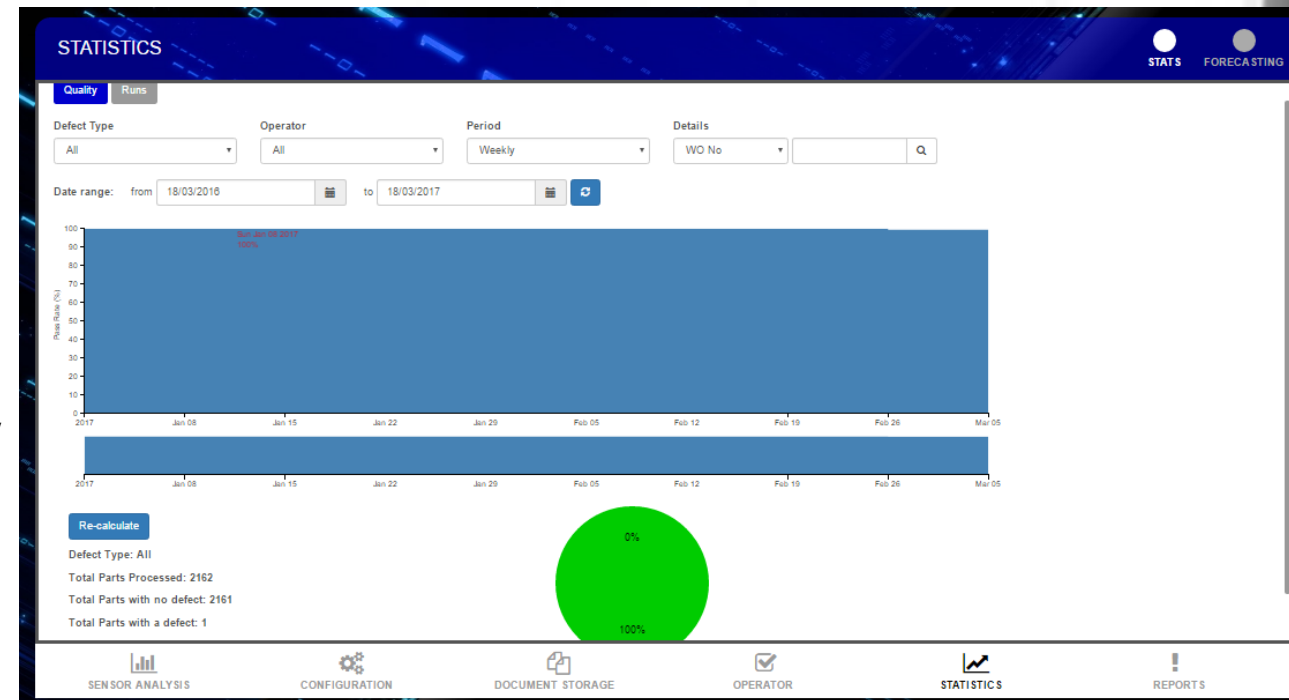
Control all your statistical data covering quality, production runs & use the forecasting tool.

Quality stats give you the following benefits:

Number of parts processed in set period ranges define by users. Filter to enable operators pass/failure rates, specific part numbers & specific defect types.

Monitor amount of runs performed by each shift, set the number of runs required, number of shifts and compare run rates shift by shift.

Forecasting tool enables users to forecast time taken to do incoming work. Input number of parts, number of operators & period range to give you instant results of time taken to process the work.



Reports- Overview

Generate & review reports for defects and out of tolerance sensors & review any email notifications which have been received.

Search function enable users to enter key words to search specific items

All reports are semi populated with key data of the event such as part numbers, out of tolerance times of events etc.

All data is presented to the user in order to conduct reports without the hassle of gathering the data.

The screenshot displays the 'ALERT MESSAGES' interface. At the top right, there are buttons for 'REPORTS' and 'NOTIFICATIONS'. Below the header, there is a search bar with a dropdown menu set to 'Issued', a search icon, and a 'Show Archive' checkbox. The main content is a table with the following columns: 'Id', 'Issued', 'Recipient', 'Subject', and a column with links for 'Details | Archive'.

Id	Issued	Recipient	Subject	
1	07/08/2016 2:47:05 PM	Marc Berry	Air Pressure on Hycrome has gone out of tolerance!	Details Archive
2	08/08/2016 12:28:27 PM	Marc Berry	NxtGen Utilisation of Hycrome from 07/08/2016 to 08/08/2016	Details Archive
3	08/08/2016 12:28:34 PM	Marc Berry	NxtGen Utilisation of Hycrome from 01/08/2016 to 07/08/2016	Details Archive
4	08/08/2016 12:28:53 PM	Marc Berry	NxtGen Utilisation of Hycrome from 01/07/2016 to 01/08/2016	Details Archive
5	08/08/2016 12:28:53 PM	Marc Berry	NxtGen Control Check count for 01/08/2016 was 0	Details Archive
6	08/08/2016 12:28:55 PM	Marc Berry	NxtGen Control Check count for 06/08/2016 was 0	Details Archive
7	08/08/2016 12:28:55 PM	Marc Berry	NxtGen Control Check count for 07/08/2016 was 0	Details Archive
8	08/08/2016 12:35:24 PM	Marc Berry	Water Pressure on Hycrome has gone out of tolerance!	Details Archive
9	09/08/2016 12:00:05 AM	Marc Berry	NxtGen Utilisation of Hycrome from 06/08/2016 to 07/08/2016	Details Archive
10	10/08/2016 12:00:05 AM	Marc Berry	NxtGen Utilisation of Hycrome from 06/08/2016 to 07/08/2016	Details Archive
11	10/08/2016 12:00:09 AM	Marc Berry	NxtGen Utilisation of Hycrome from 07/08/2016 to 08/08/2016	Details Archive
12	10/08/2016 12:00:10 AM	Marc Berry	NxtGen Control Check count for 09/08/2016 was 1	Details Archive
13	10/08/2016 6:39:32 AM	Marc Berry	Air Pressure on Hycrome has gone out of tolerance!	Details Archive
14	11/08/2016 12:00:05 AM	Marc Berry	NxtGen Utilisation of Hycrome from 06/08/2016 to 07/08/2016	Details Archive
15	11/08/2016 12:00:09 AM	Marc Berry	NxtGen Utilisation of Hycrome from 07/08/2016 to 08/08/2016	Details Archive

At the bottom of the interface, there is a navigation bar with five icons and labels: 'SENSOR ANALYSIS' (bar chart icon), 'CONFIGURATION' (gear icon), 'DOCUMENT STORAGE' (folder icon), 'OPERATOR' (checkbox icon), and 'REPORTS' (exclamation mark icon).

Benefits of Paint shop process management system



- Digitalisation of Paint shop process.
- Continuous record of oven temperatures with email alerts if out of tolerance events occur.
- Log cure times, humidity, temperature or any other important checks required via configurable digital control checks.
- Real time data tracking of components in paint process.
- Control statistical data covering quality & production runs.
- Digital control checks configurable to customer requirements.
- Remote access from any location within the facility(system has to be on the same network for remote access).
- Centralised location for all Paint related documents.
- Reduces human error.
- Generate & review reports for defects.
- Email reminder notification for key events.
- No licence required.

MK2 system

The following equipment is supplied with the mk2 system:

- Industrial computer housing software & SQL server with 10GB data storage capability.
 - Storage is estimated to last 2 years after that supplier can transfer to an external hard drive. (Instruction are in the user guide provided).
 - OS Windows 10
- 28" Monitor
- Timer pack
- Temperature sensor for over.
- User manuals & 1 year support certification.
- All housed within compacted unit.
- All supporting ancillary equipment (ethernet cables. HDMI leads etc.)

Note: Internet access point, electrical point & a separate computer will be required within the paint shop area to access the software which is the responsibility of the customer.