



# INSPECTOR i.10

## INSPECTION OF COOLING CHANNELS


INSPECTOR i.10 is an industrial equipment specifically developed for the inspection and pre-cleaning of all type of cooling channels, even the most challenging ones.



# WITH JUST ONE CLICK

## IT'S POSSIBLE...

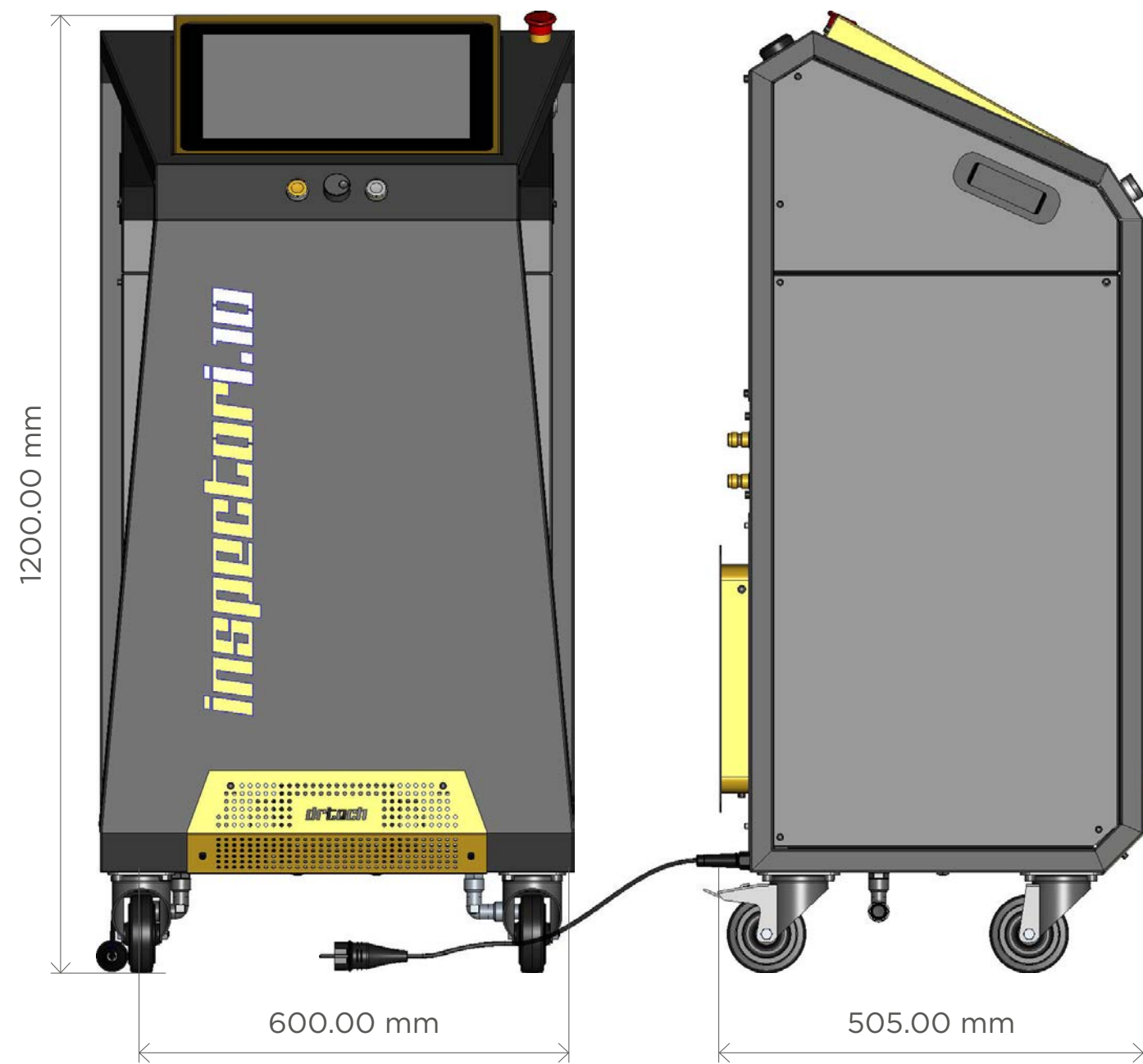
- Analyse possible leaks
- Verify flow rates
- Identify possible leaks at bottle necks in the cooling channel

- 
- 1 Compressed air purging
  - 2 Water purging
  - 3 Water tightness testing
  - 4 Water flow rate measurement
  - 5 Clean and protection of the cooling channels

## WHY i.10?

### MAIN FEATURES

This device enables the accurate verification of the flow rate for each circuit to a pre-set pressure, providing the mould maker with a clear report of the performance of the cooling channels and directly reducing costs related to water leakage during the start-up of the mould.

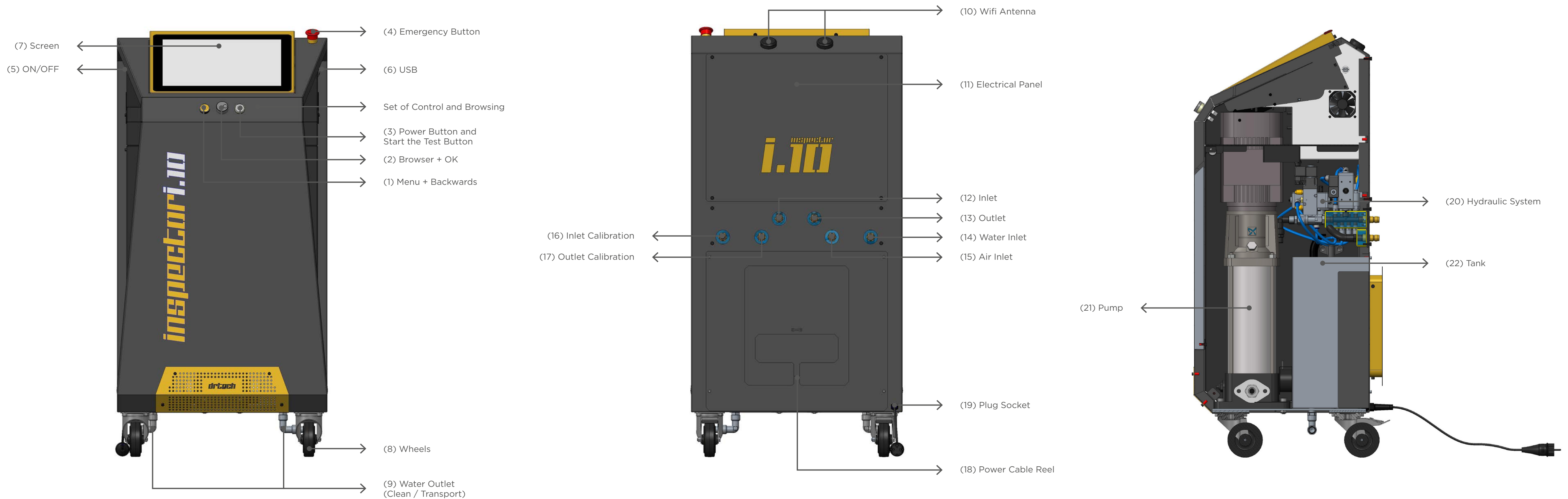


# GENERAL INFORMATION

## GENERAL SCHEME OF THE EQUIPMENT

# GENERAL INFORMATION

## EQUIPMENT DESCRIPTION

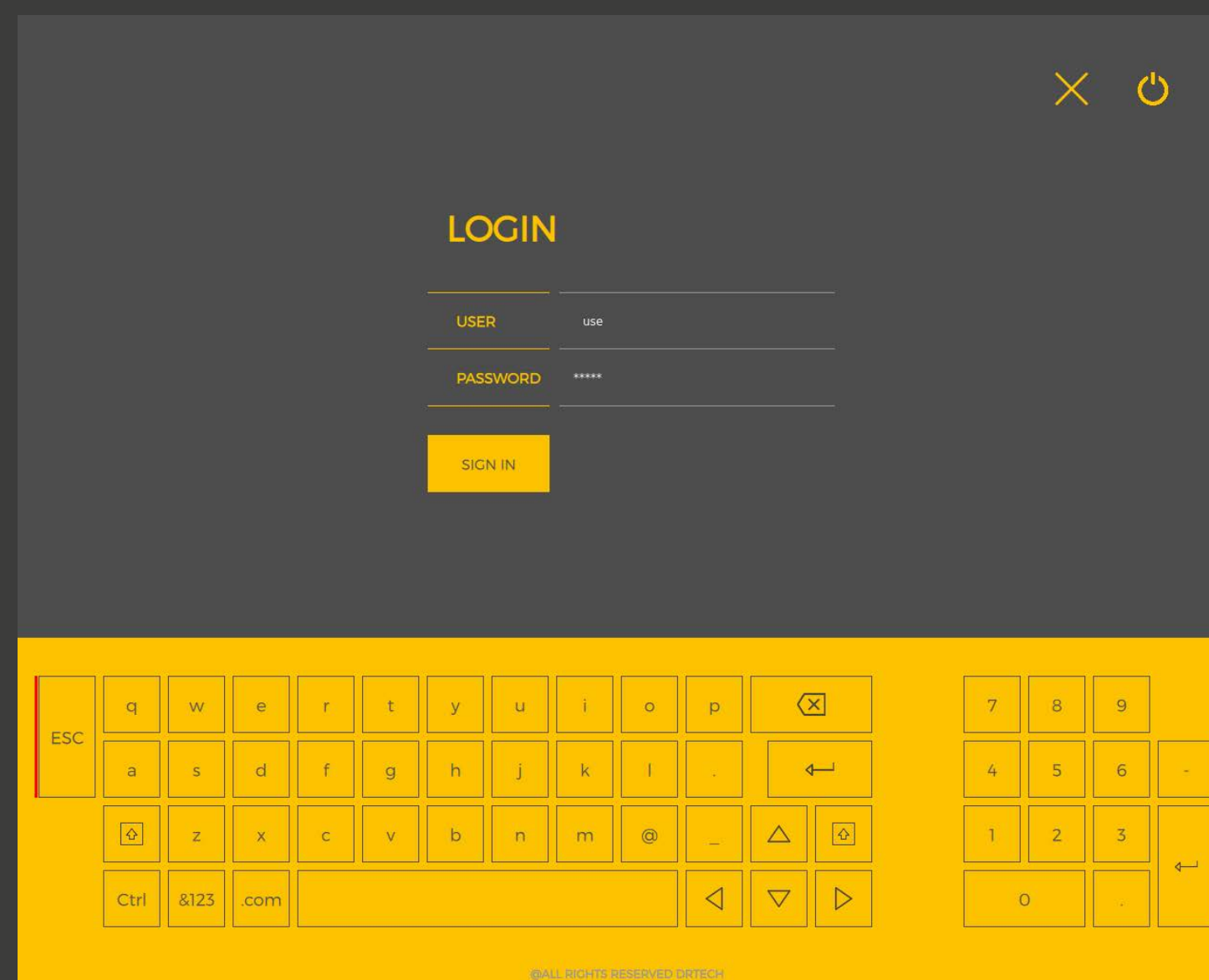


# USER INTERFACE

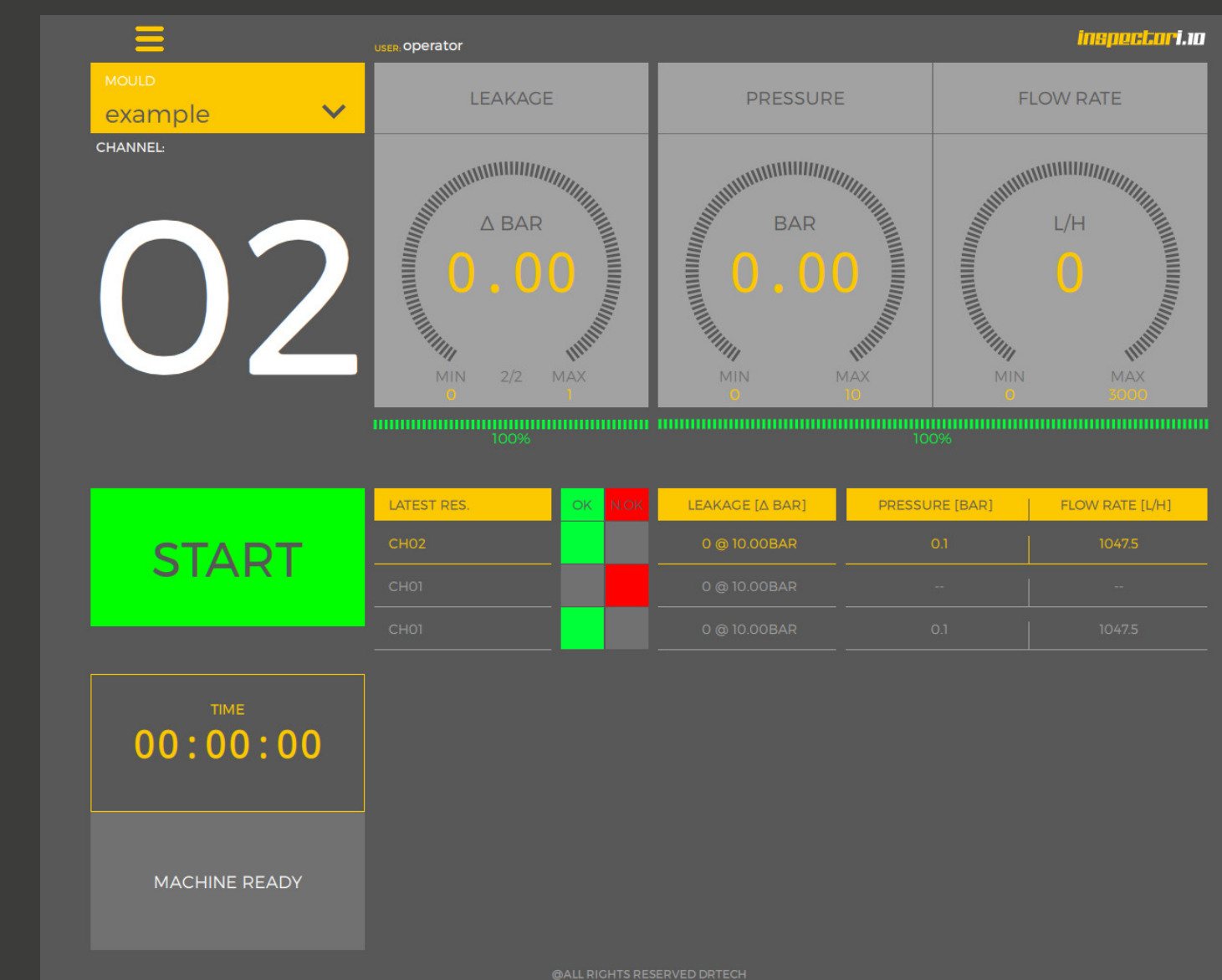
## EASY SET UP BY INTUITIVE SCREEN



Initialization



Login View



Homepage

# USER INTERFACE

## EASY SET UP BY INTUITIVE SCREEN

**Inspector.i.10**  
COOLING CHANNEL INSPECTOR

PLEASE  
DO NOT MOVE MACHINE

CANCEL

5%

- ✓ CONNECTION TEST OF HOSES
- ✓ CLEANING WITH AIR IN REVERSE DIRECTION
- CALIBRATION WITH WATER FLOW
- LEAKAGE TEST WITH WATER -#1
- DRAINING WATER FROM THE CIRCUIT -#1
- LEAKAGE TEST WITH WATER -#2
- DRAINING WATER FROM THE CIRCUIT -#2

CALIBRATION WITH WATER FLOW

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Calibration

user: operator

MOULD: example

CHANNEL:

01

LEAKAGE: 0.00 BAR

PRESSURE: 2.43 BAR

FLOW RATE: 2553 L/H

STOP

TIME: 00:00:00

WATER FLOW TEST

LATEST RES.	LEAKAGE [Δ BAR]	PRESSURE [BAR]	FLOW RATE [L/H]
OK			

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Pressure vs Flowrate Test

user: admin

MOULD: M034

CHANNEL:

01

LEAKAGE: 0.30 Δ BAR

PRESSURE: 2.90 BAR

FLOW RATE: 2996 L/H

STOP

TIME: 00:03:31

LEAKAGE TEST WITH WATER

LATEST RES.	LEAKAGE [Δ BAR]	PRESSURE [BAR]	FLOW RATE [L/H]
OK	0.1 @ 2.00BAR	2.9	2996

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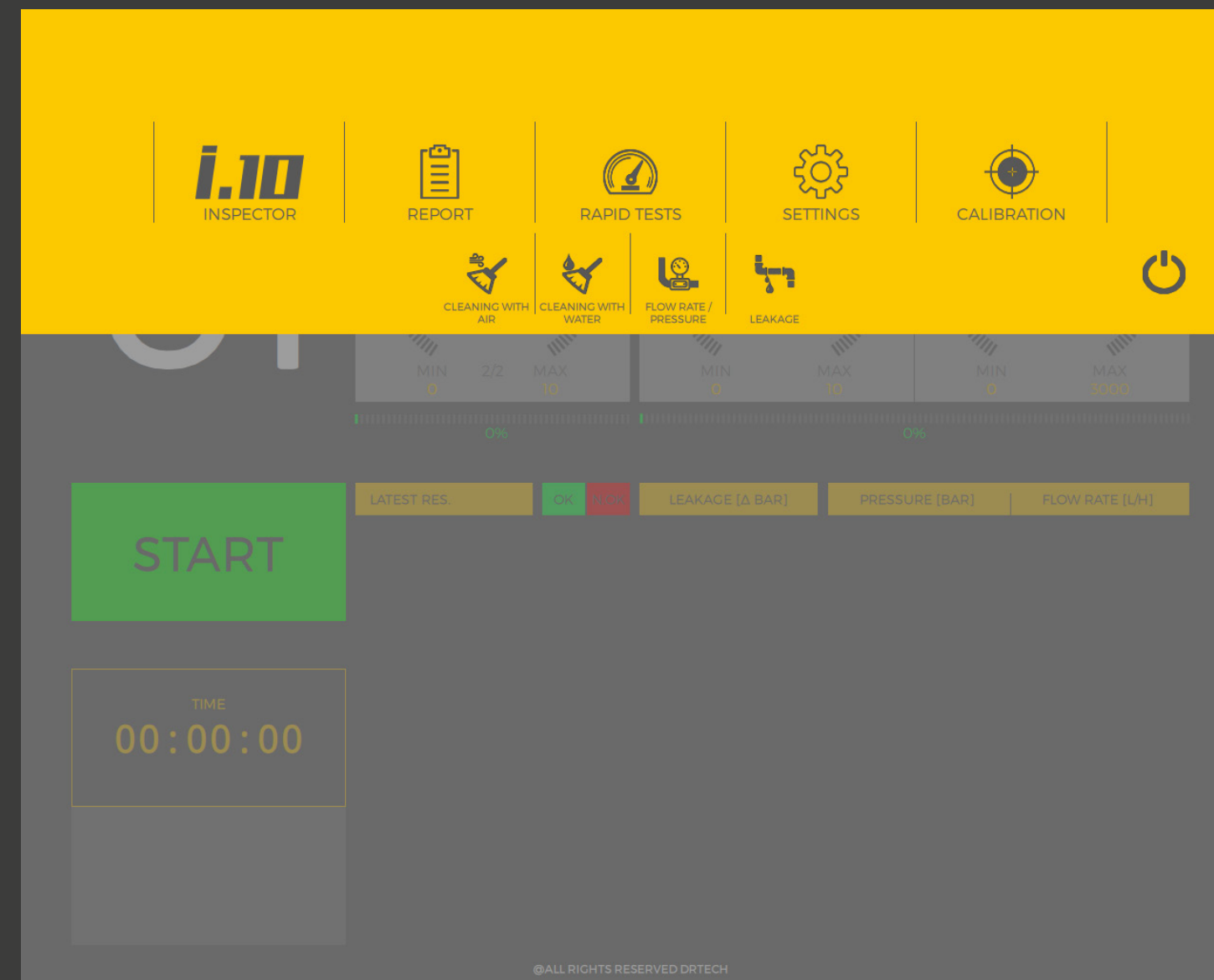
Leakage Test

# USER INTERFACE

## EASY SET UP BY INTUITIVE SCREEN



Report Page



Menu and Quick Test

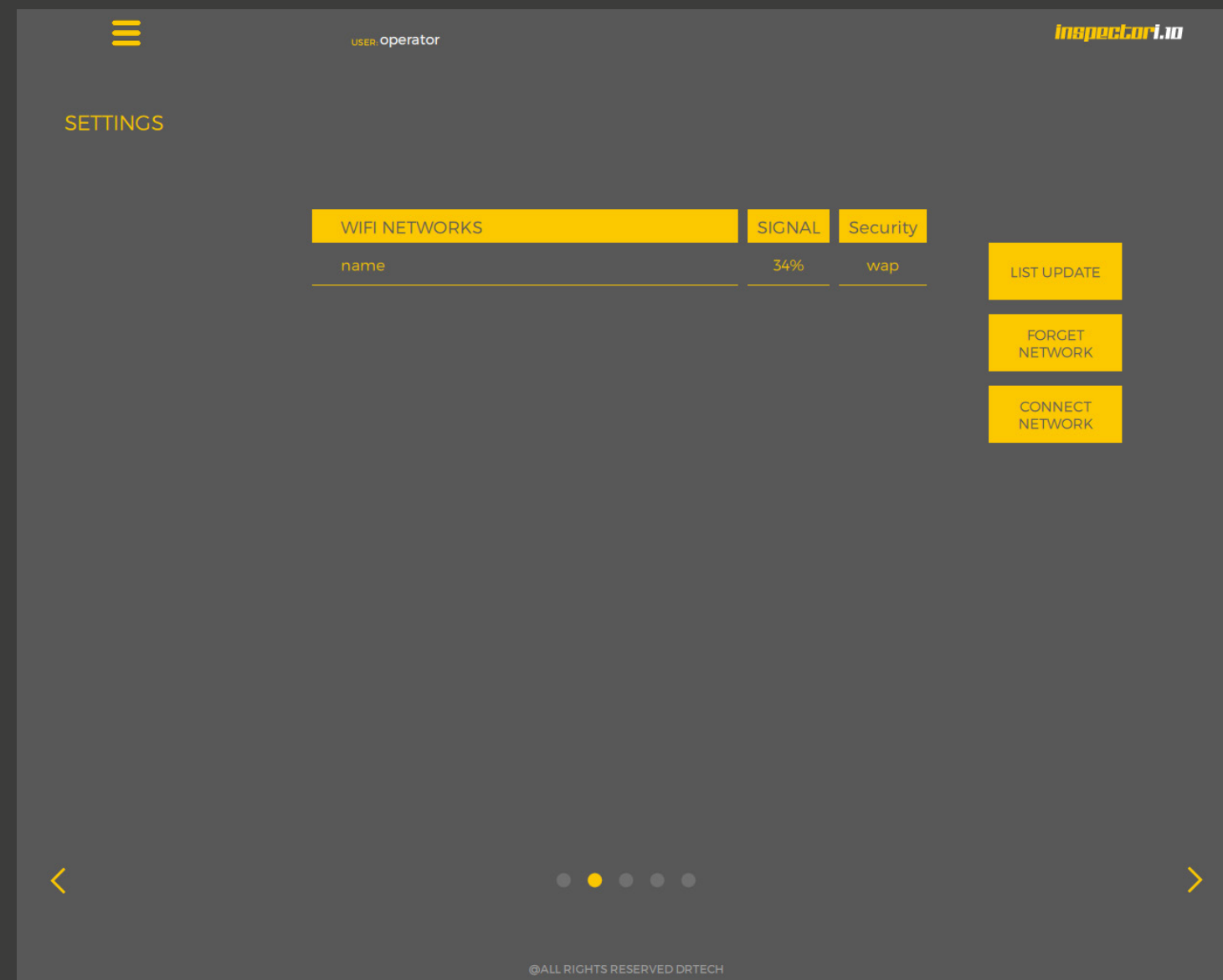
**Backoffice Settings**

SETTING	UNIT	VALUE	FACTORY DEFAULT
<b>SETTINGS</b>			
1.6. PRESSAO MAXIMA DE AR	BAR	8.0	FACTORY DEFAULT
<b>PHASE 2 CLEANING IN REVERSE DIRECTION</b>			
2.1. DURATION	Seconds	5.0	
2.2. DURATION OF CLOSURE OF INLET VALVE	Seconds	0.5	
<b>PHASE 5 DIRECT CLEANING</b>			
3.1. DURATION	Seconds	5.0	
<b>PHASE 5A LEAKAGE TEST WITH AIR</b>			
4.1. DURATION OF INITIAL AIR CIRCULATION	Seconds	3.0	
4.2. DURATION OF CLOSING THE OUTLET VALVE	Seconds	1.0	
4.3. DURATION OF CLOSURE OF INLET VALVE	Seconds	1.0	
4.4. Duração do decaimento de pressão	Seconds	2.0	
4.5. MAXIMUM DECAY IN PRESSURE	BAR	0.30	

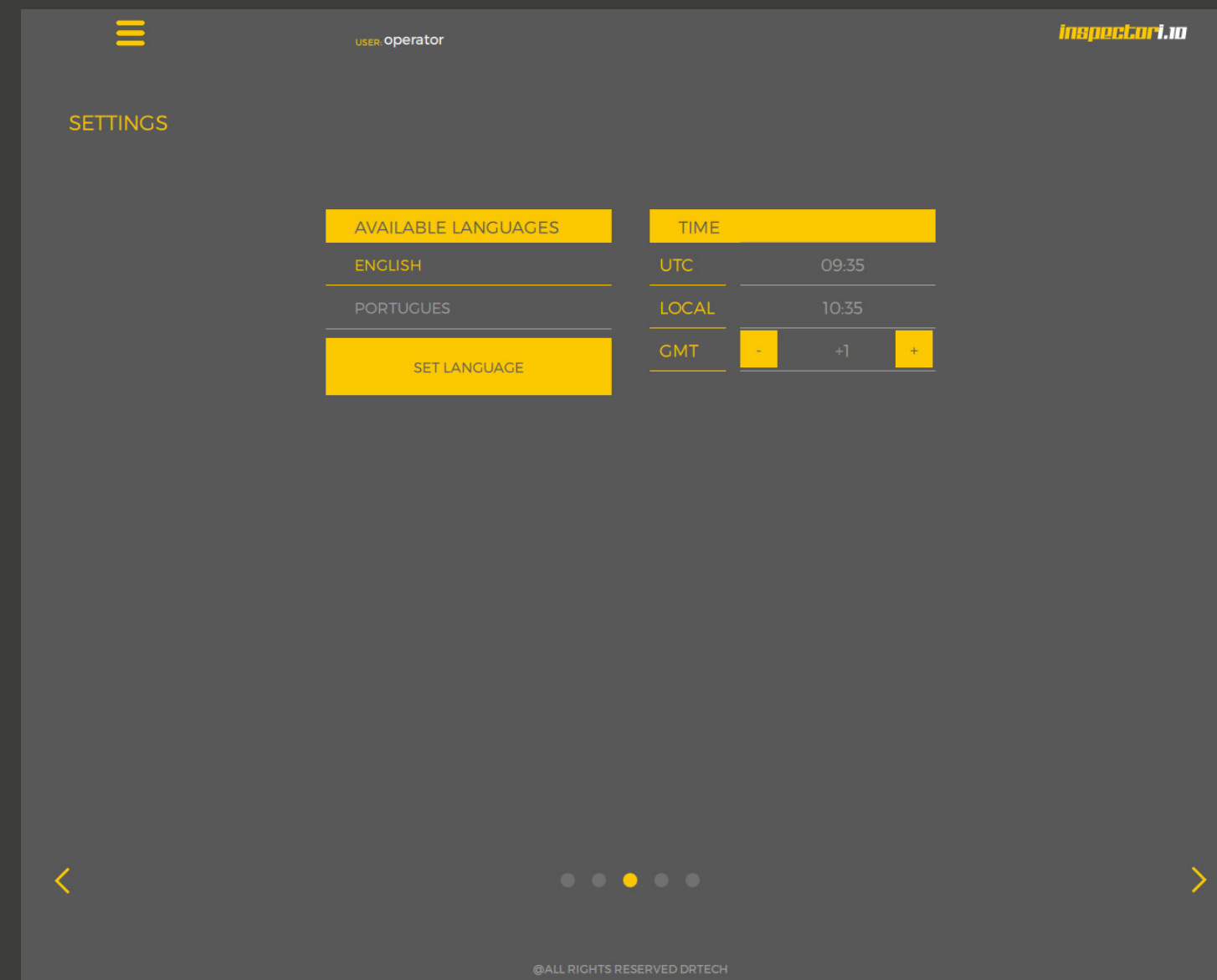
Backoffice Settings

# USER INTERFACE

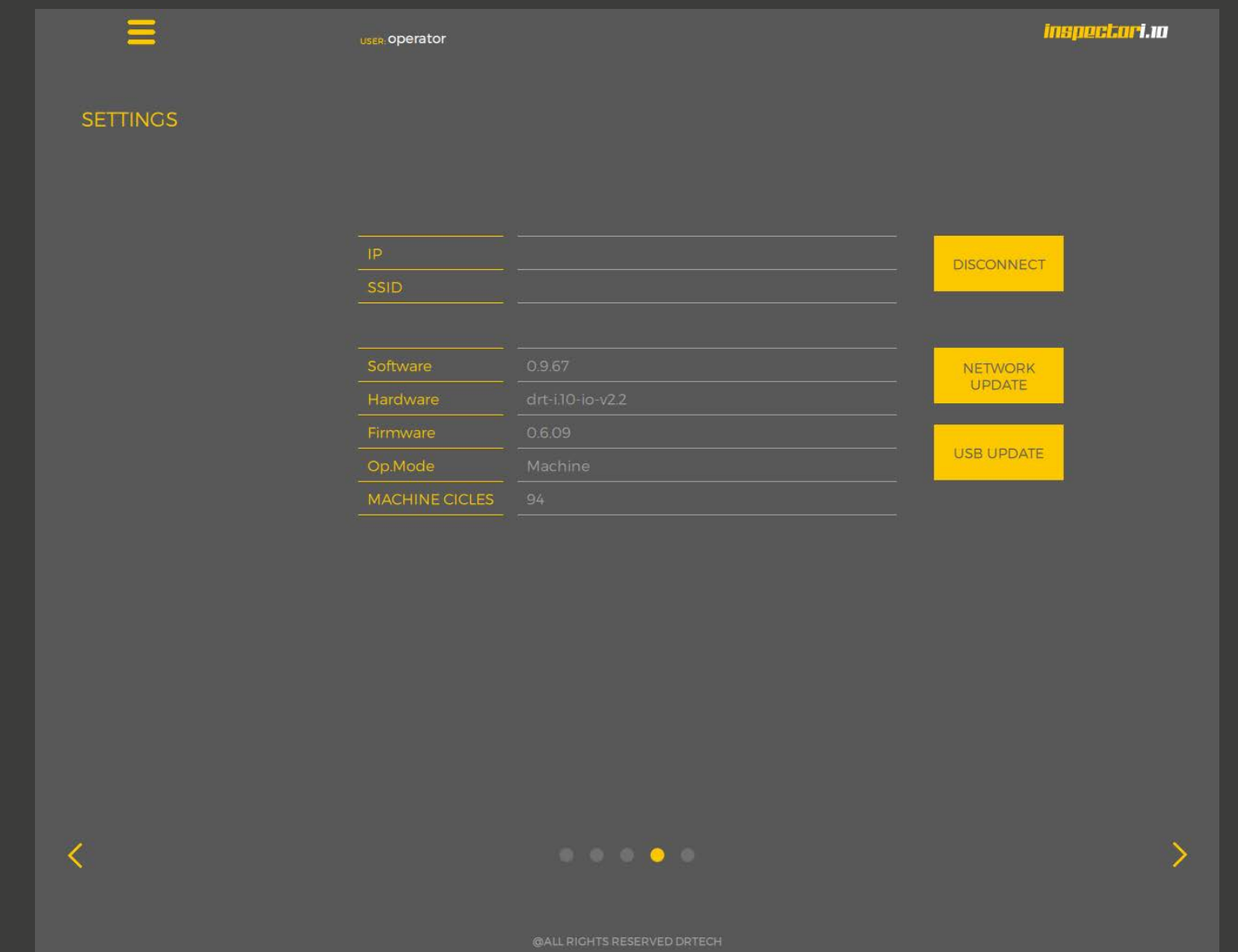
## EASY SET UP BY INTUITIVE SCREEN



Backoffice  
Wi-Fi List



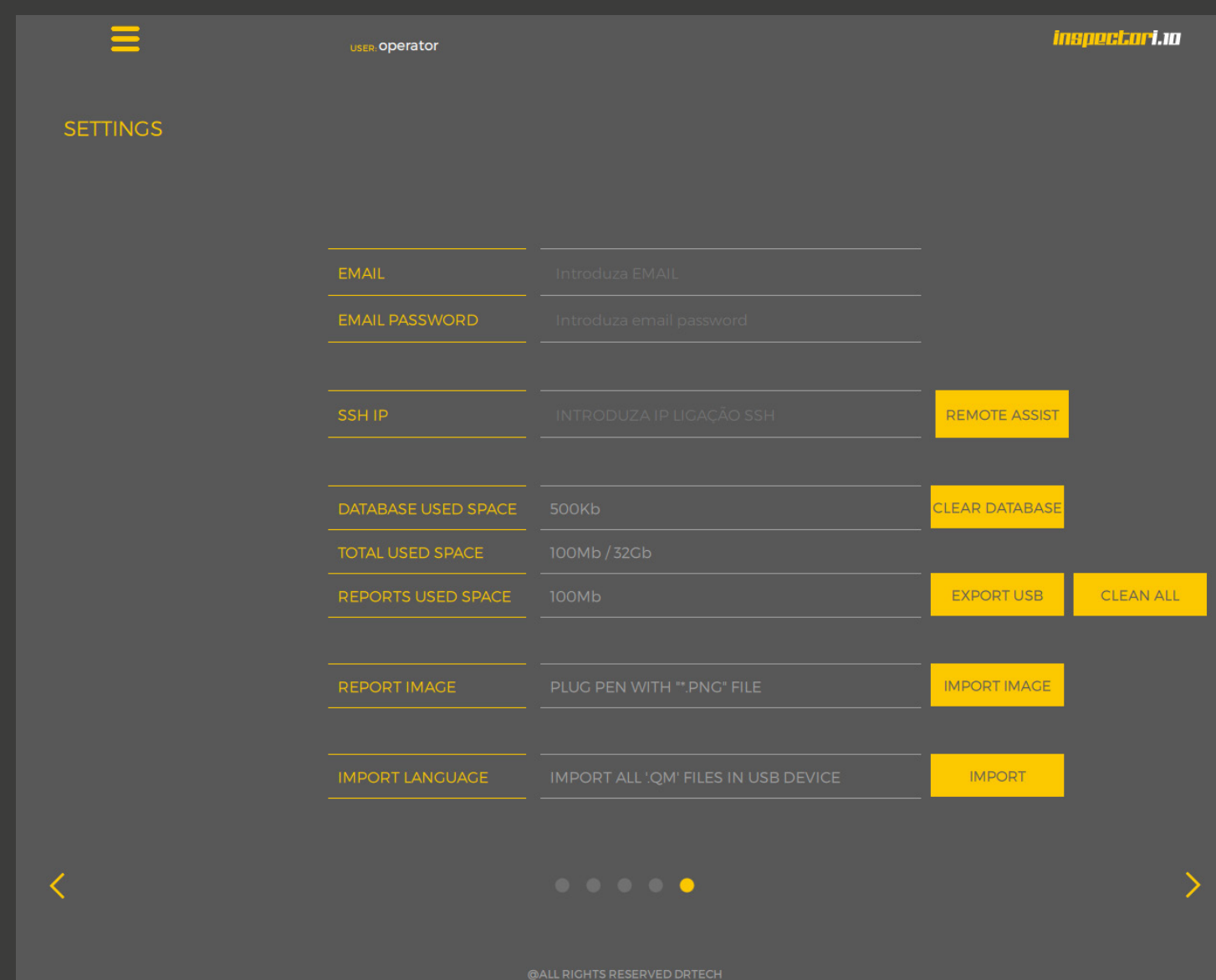
Backoffice  
Language and time settings



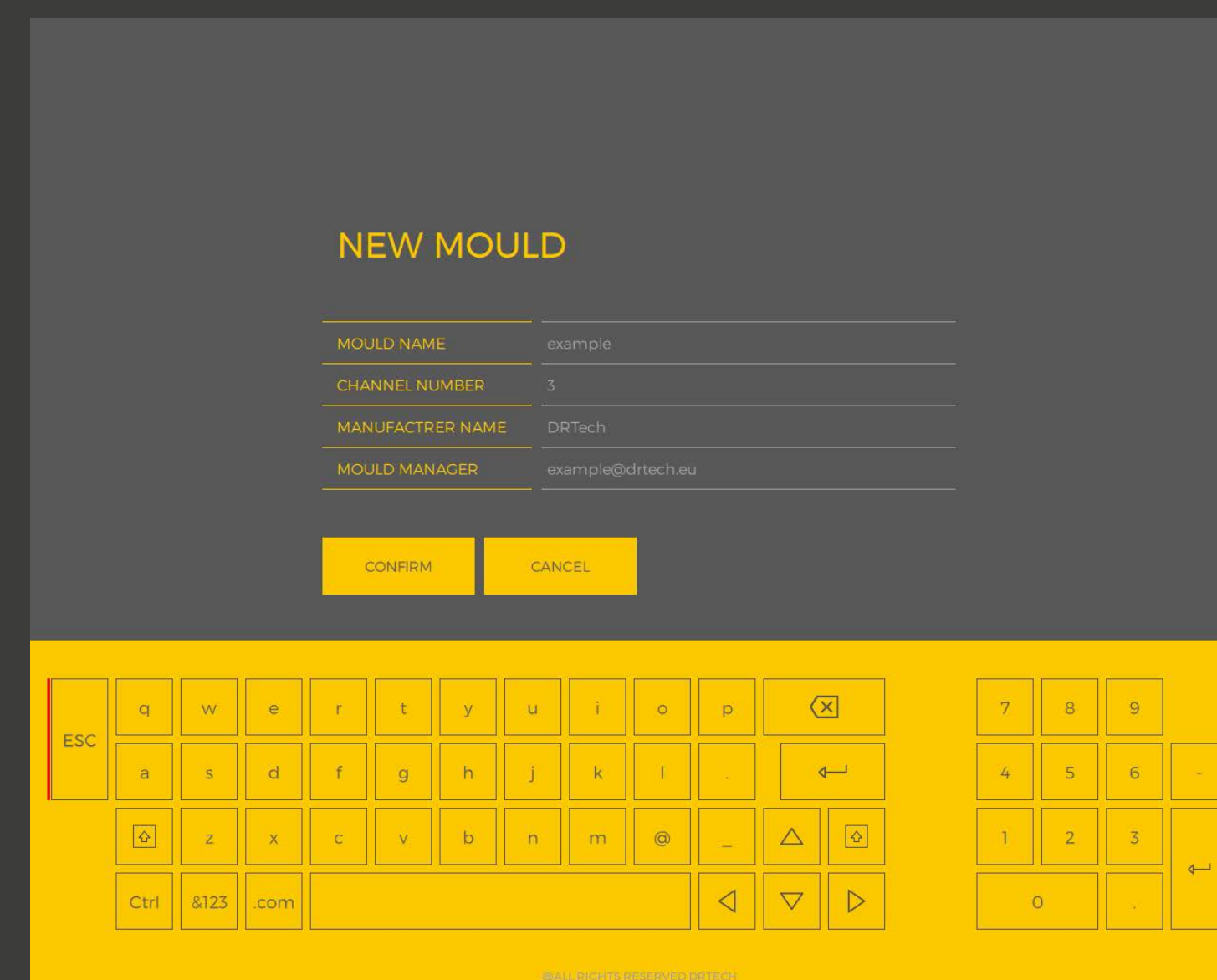
Backoffice  
System information

# USER INTERFACE

## EASY SET UP BY INTUITIVE SCREEN



Backoffice  
UI confirmations



New Mould

# OTHER CAPABILITIES



- Measurement, data storage and documentation
- Sensor monitored fill level control
- Automatic refill 40 liters water tank
- Pump with the testing and working pressure adjustable up to 10 bar (depending on the volume flow capability)
- Internal data storage with 100GB memory

# REAL TIME REPORTS

## EASY TO USE

With INSPECTOR i10 you can also send the reports directly to your e-mail address or to a Backup server so that you can have future access to all the data.

It is also possible to compare or to analyse the reports automatically saved in the equipment.



WI-FI



EMAIL



USB



TOUCH  
SCREEN



# TECHNICAL SPECIFICATIONS



<b>HMI</b>	Touch technology	Projected Capacitive - possibility to use with work gloves
	Display	17", 16.7 million colors
	Viewing Angle	Horizontal: 85°/170°; Vertical: 80°/160°
<b>Operating features</b>	Channel test	Up to 10 Bar (defined by user)
	Flow rate	Up to 3000 L/H
	Oil absorvent filter	
<b>Environment</b>	Filter	Magnetic filter for metal particles
	Working temperature	15 - 25 °C (recommended)
	Humidity	20% - 80%
<b>Supply</b>	Electric Supply	230 V, 50 Hz, 2000 W, standard Schuko male plug (2P+T)
	Air Supply	4 - 8 Bar, dry air 20 °C
	Water supply	Automatic refill 40 Litres water tank
<b>Data Communication</b>	WiFi	
	e-mail	
	USB	Port type A
<b>Dimensions</b>	Firmware update	Via WiFi and USB
	Unpackaged	60(L) x 50(W) x 107(H) cm
	Packaged	73(L) x 73(W) x 145(H) cm
<b>Weight</b>	Unpackaged	90 Kg
	Packaged	160 Kg



The simplicity and effectiveness that INSPECTOR i10 provides during the assembly of injection moulds is simply remarkable, thus offering a return on investment in just a few months.

[www.drtech.eu](http://www.drtech.eu)

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