



# VISULOG

Configuration and data acquisition  
software for monitoring and  
supervision

VISULOG is an easy-to-use yet powerful software to use in combination with AOIP acquisition systems, calibration and measurement instruments. The software allows data to be acquired, managed, and stored on a computer.

- Measurement and calculation channels
- Edition of comprehensive and customizable calibration reports
- Customizable visualization panel
- 4 optional modules for advanced use:
  - Calibration module
  - Module of advanced management of access rights (21 CFR Part 11)
  - Chamber mapping module
  - Remote access and control module

## Description

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VISULOG allows acquisition on a computer to be performed over more than 5000 channels. It provides calculation channels, for statistics and advanced calculation as, for instance, required in oven mapping applications.

Users can define result files, audit trails and manage the acquisitions.



### Build your own screen

Measurements can be displayed as a list of results, curves, bargraphs and high definition diagrams.

Pictures or schematic of your installation can be set as a background of the screen, then you can place curves, channels values close the real points.

All the results can be exported to spread sheets as excel or other softwares. Alarms can be also defined by the user (4 alarms per channel). These alarms can generate pop up windows on the control screen. Emails to one or several users in charge of supervision can also be generated.

## VISULOG-PHARMA: Optional module for advanced management of access rights – Compliance to 21 CFR part 11 - FDA Standard

VISULOG software can be configured to fulfil all the 21 CFR part 11 requirements:

- Security Management

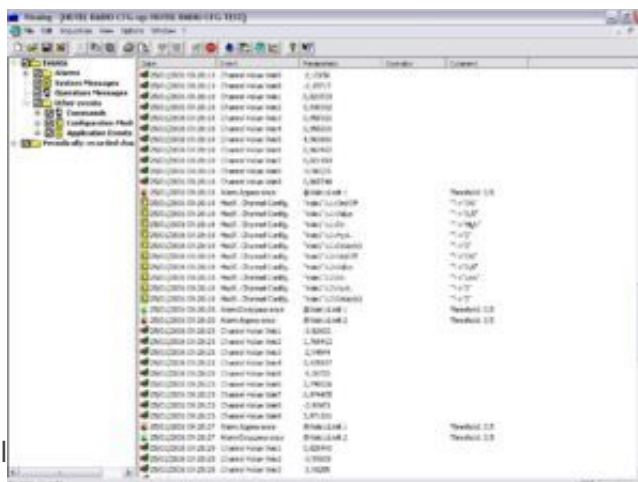
- Personal login and password
- 3 levels of rights: Administrator, Super-User, User

Each level gives specific rights. Passwords will automatically expire unless renewed within a configurable time.

User accounts are disabled after a number of failed login attempts and failures are logged into the audit trail

An acknowledgment, or signature, is required for every action including alarms validation.

Results files are stored in a VISULOG format: \*.vgc



Date	Event	Parameters	Comments
2025/07/01 10:00:00	Channel Setup	Channel 1: 10.0000	
2025/07/01 10:00:01	Channel Setup	Channel 2: 10.0000	
2025/07/01 10:00:02	Channel Setup	Channel 3: 10.0000	
2025/07/01 10:00:03	Channel Setup	Channel 4: 10.0000	
2025/07/01 10:00:04	Channel Setup	Channel 5: 10.0000	
2025/07/01 10:00:05	Channel Setup	Channel 6: 10.0000	
2025/07/01 10:00:06	Channel Setup	Channel 7: 10.0000	
2025/07/01 10:00:07	Channel Setup	Channel 8: 10.0000	
2025/07/01 10:00:08	Channel Setup	Channel 9: 10.0000	
2025/07/01 10:00:09	Channel Setup	Channel 10: 10.0000	
2025/07/01 10:00:10	Channel Setup	Channel 11: 10.0000	
2025/07/01 10:00:11	Channel Setup	Channel 12: 10.0000	
2025/07/01 10:00:12	Channel Setup	Channel 13: 10.0000	
2025/07/01 10:00:13	Channel Setup	Channel 14: 10.0000	
2025/07/01 10:00:14	Channel Setup	Channel 15: 10.0000	
2025/07/01 10:00:15	Channel Setup	Channel 16: 10.0000	
2025/07/01 10:00:16	Channel Setup	Channel 17: 10.0000	
2025/07/01 10:00:17	Channel Setup	Channel 18: 10.0000	
2025/07/01 10:00:18	Channel Setup	Channel 19: 10.0000	
2025/07/01 10:00:19	Channel Setup	Channel 20: 10.0000	
2025/07/01 10:00:20	Channel Setup	Channel 21: 10.0000	
2025/07/01 10:00:21	Channel Setup	Channel 22: 10.0000	
2025/07/01 10:00:22	Channel Setup	Channel 23: 10.0000	
2025/07/01 10:00:23	Channel Setup	Channel 24: 10.0000	
2025/07/01 10:00:24	Channel Setup	Channel 25: 10.0000	
2025/07/01 10:00:25	Channel Setup	Channel 26: 10.0000	
2025/07/01 10:00:26	Channel Setup	Channel 27: 10.0000	
2025/07/01 10:00:27	Channel Setup	Channel 28: 10.0000	
2025/07/01 10:00:28	Channel Setup	Channel 29: 10.0000	
2025/07/01 10:00:29	Channel Setup	Channel 30: 10.0000	
2025/07/01 10:00:30	Channel Setup	Channel 31: 10.0000	
2025/07/01 10:00:31	Channel Setup	Channel 32: 10.0000	
2025/07/01 10:00:32	Channel Setup	Channel 33: 10.0000	
2025/07/01 10:00:33	Channel Setup	Channel 34: 10.0000	
2025/07/01 10:00:34	Channel Setup	Channel 35: 10.0000	
2025/07/01 10:00:35	Channel Setup	Channel 36: 10.0000	
2025/07/01 10:00:36	Channel Setup	Channel 37: 10.0000	
2025/07/01 10:00:37	Channel Setup	Channel 38: 10.0000	
2025/07/01 10:00:38	Channel Setup	Channel 39: 10.0000	
2025/07/01 10:00:39	Channel Setup	Channel 40: 10.0000	
2025/07/01 10:00:40	Channel Setup	Channel 41: 10.0000	
2025/07/01 10:00:41	Channel Setup	Channel 42: 10.0000	
2025/07/01 10:00:42	Channel Setup	Channel 43: 10.0000	
2025/07/01 10:00:43	Channel Setup	Channel 44: 10.0000	
2025/07/01 10:00:44	Channel Setup	Channel 45: 10.0000	
2025/07/01 10:00:45	Channel Setup	Channel 46: 10.0000	
2025/07/01 10:00:46	Channel Setup	Channel 47: 10.0000	
2025/07/01 10:00:47	Channel Setup	Channel 48: 10.0000	
2025/07/01 10:00:48	Channel Setup	Channel 49: 10.0000	
2025/07/01 10:00:49	Channel Setup	Channel 50: 10.0000	
2025/07/01 10:00:50	Channel Setup	Channel 51: 10.0000	
2025/07/01 10:00:51	Channel Setup	Channel 52: 10.0000	
2025/07/01 10:00:52	Channel Setup	Channel 53: 10.0000	
2025/07/01 10:00:53	Channel Setup	Channel 54: 10.0000	
2025/07/01 10:00:54	Channel Setup	Channel 55: 10.0000	
2025/07/01 10:00:55	Channel Setup	Channel 56: 10.0000	
2025/07/01 10:00:56	Channel Setup	Channel 57: 10.0000	
2025/07/01 10:00:57	Channel Setup	Channel 58: 10.0000	
2025/07/01 10:00:58	Channel Setup	Channel 59: 10.0000	
2025/07/01 10:00:59	Channel Setup	Channel 60: 10.0000	
2025/07/01 10:01:00	Channel Setup	Channel 61: 10.0000	
2025/07/01 10:01:01	Channel Setup	Channel 62: 10.0000	
2025/07/01 10:01:02	Channel Setup	Channel 63: 10.0000	
2025/07/01 10:01:03	Channel Setup	Channel 64: 10.0000	
2025/07/01 10:01:04	Channel Setup	Channel 65: 10.0000	
2025/07/01 10:01:05	Channel Setup	Channel 66: 10.0000	
2025/07/01 10:01:06	Channel Setup	Channel 67: 10.0000	
2025/07/01 10:01:07	Channel Setup	Channel 68: 10.0000	
2025/07/01 10:01:08	Channel Setup	Channel 69: 10.0000	
2025/07/01 10:01:09	Channel Setup	Channel 70: 10.0000	
2025/07/01 10:01:10	Channel Setup	Channel 71: 10.0000	
2025/07/01 10:01:11	Channel Setup	Channel 72: 10.0000	
2025/07/01 10:01:12	Channel Setup	Channel 73: 10.0000	
2025/07/01 10:01:13	Channel Setup	Channel 74: 10.0000	
2025/07/01 10:01:14	Channel Setup	Channel 75: 10.0000	
2025/07/01 10:01:15	Channel Setup	Channel 76: 10.0000	
2025/07/01 10:01:16	Channel Setup	Channel 77: 10.0000	
2025/07/01 10:01:17	Channel Setup	Channel 78: 10.0000	
2025/07/01 10:01:18	Channel Setup	Channel 79: 10.0000	
2025/07/01 10:01:19	Channel Setup	Channel 80: 10.0000	
2025/07/01 10:01:20	Channel Setup	Channel 81: 10.0000	
2025/07/01 10:01:21	Channel Setup	Channel 82: 10.0000	
2025/07/01 10:01:22	Channel Setup	Channel 83: 10.0000	
2025/07/01 10:01:23	Channel Setup	Channel 84: 10.0000	
2025/07/01 10:01:24	Channel Setup	Channel 85: 10.0000	
2025/07/01 10:01:25	Channel Setup	Channel 86: 10.0000	
2025/07/01 10:01:26	Channel Setup	Channel 87: 10.0000	
2025/07/01 10:01:27	Channel Setup	Channel 88: 10.0000	
2025/07/01 10:01:28	Channel Setup	Channel 89: 10.0000	
2025/07/01 10:01:29	Channel Setup	Channel 90: 10.0000	
2025/07/01 10:01:30	Channel Setup	Channel 91: 10.0000	
2025/07/01 10:01:31	Channel Setup	Channel 92: 10.0000	
2025/07/01 10:01:32	Channel Setup	Channel 93: 10.0000	
2025/07/01 10:01:33	Channel Setup	Channel 94: 10.0000	
2025/07/01 10:01:34	Channel Setup	Channel 95: 10.0000	
2025/07/01 10:01:35	Channel Setup	Channel 96: 10.0000	
2025/07/01 10:01:36	Channel Setup	Channel 97: 10.0000	
2025/07/01 10:01:37	Channel Setup	Channel 98: 10.0000	
2025/07/01 10:01:38	Channel Setup	Channel 99: 10.0000	
2025/07/01 10:01:39	Channel Setup	Channel 100: 10.0000	

- Audit trail

All the events are recorded into a protected file: connections, disconnections, alarms appearance/clearance, configuration modifications, results readings...

*Please do not hesitate to contact AOIP to ask for our "white paper", explaining step by step the compliance of VISULOG to the FDA 21 CFR PART 11 requirements, regarding data saving, access restrictions and audit trails.*

## VISULOG-ETAL : Optional module for sensor calibration

This module enables sensor calibration to be managed and fully automatized. An unlimited number of calibration procedures can be created.

Every sensor can be automatically calibrated after configuration by comparison either to a standard sensor connected to a channel of an acquisition system, either to an external reference. Results are registered and integrated into VISULOG software: applied corrections, standard references, calibrated values...

After calibration, the user can create a customized calibration report.

### Applications :

Autoclave validation

With the sensor calibration facility, full autoclave validation can be performed with VISULOG software and an AOIP data acquisition system:

Process description:

- Pre calibration of the temperature sensors, adjustment performed into the data-logging system, BEFORE the validation process
- Autoclave validation with real-time monitoring and F0 calculation
- Post calibration of the temperature sensors

### **Monitoring**

Monitoring of chambers, cooler, cool rooms in R&D or production processes within pharmaceutical / medical environments, food industry...in order to control the non-drift of chambers and ensure the traceability of the environment in which tests are performed.

## VISULOG-CARTO : Optional module for mapping of thermal & climatic chambers and storage rooms

VISULOG-CARTO can perform in real time characterization, qualification, mapping and validation of a chamber or a storage room according to IEC60068-3-11.

Mapping allows characteristics of room to be precisely defined in terms of stability, homogeneity and horizontal and vertical thermal gradients between measurement points within the chamber.

### Applications :

#### **Storage rooms**

In case of storage applications and depending on the type of products stored, it is necessary to define with accuracy the climatic conditions at every part of the room. Knowing the temperature and humidity differences inside the room, sensitive products can be stored according to their storage and behavior specifications.

Once the sensors are placed, the room is controlled and monitored in real time during days and nights and eventually warns the supervisor of changing conditions with alarm emails.

#### **Climatic and thermostatic chambers**

VISULOG mapping facilities will perform all the necessary operations according the standard IEC60068-3-11.

For every sensor and between all sensors, values of stability, homogeneity, maximum, minimum, mean and standard deviation are calculated and displayed.

Deviations to the set point and to the indicator are also taken into account.

VISULOG mapping of climatic chambers is integrated for chambers with volume required  $2\text{ m}^3$  and between  $2\text{ m}^3$  and  $20\text{ m}^3$  and

## VISULOG-WEB : Optional module for remote control and monitoring

This module enables users to have a real-time remote control and monitoring of the acquisition and to access data under acquisition and stored in VISULOG.

Via any network, VISULOG-WEB is accessible from any Internet browser to real time display channels, result files, alarms and log files.



Access is protected by ID and password.

# Specifications

## Instruments supported by VISULOG

**AOIP acquisition  
systems**

**AOIP measuring and  
calibrating  
instruments**

**Further instruments**

## Models and accessories

For all instruments except FD 5 / 10 / 15, PC 10 and T2RN:

### Software and optional modules:

VISULOG Monitoring & data processing software full version – 1 licence

VISULOG-ETAL Monitoring & data processing software full version – 1 licence  
+ Calibration module

VISULOG-PHARMA Monitoring & data processing software full version – 1 licence  
+ Module for advanced management of access rights, 21 CFR Part 11  
compliant

VISULOG-ETAL-PHARMA Monitoring & data processing software full version – 1 licence  
+ Calibration module  
+ Module for advanced management of access rights, 21 CFR Part 11  
compliant

### Software licenses :

LIC VISU Additional license for VISULOG

LIC VISU ETAL Additional license for VISULOG with ETAL optional module

LIC VISU PHARMA Additional license for VISULOG with PHARMA optional module

LIC VISU ETAL PHARMA Additional license for VISULOG with ETAL and PHARMA optional  
module

LIC VISULOG WEB License for VISULOG WEB

For FD 5 / 10 / 15, PC 10 and T2RN:

### Software and optional modules:

VISULOGTM Monitoring & data processing software light version – 1 licence

VISULOGTM-ETAL Monitoring & data processing software light version – 1 licence  
+ Calibration module

VISULOGTM-PHARMA Monitoring & data processing software light version – 1 licence  
+ Module for advanced management of access rights, 21 CFR Part 11  
compliant

VISULOGTM-ETAL-PHARMA Monitoring & data processing software light version – 1 licence  
+ Calibration module



compliant + Module for advanced management of access rights, 21 CFR Part 11

Software licences:

LIC VISU TM Additional license for VISULOGTM

LIC VISU TM ETAL Additional license for VISULOGTM with ETAL optional module

LIC VISU TM PHARMA Additional license for VISULOGTM with PHARMA optional module

LIC VISU TM ETAL PHARMA Additional license for VISULOGTM with ETAL and PHARMA optional module