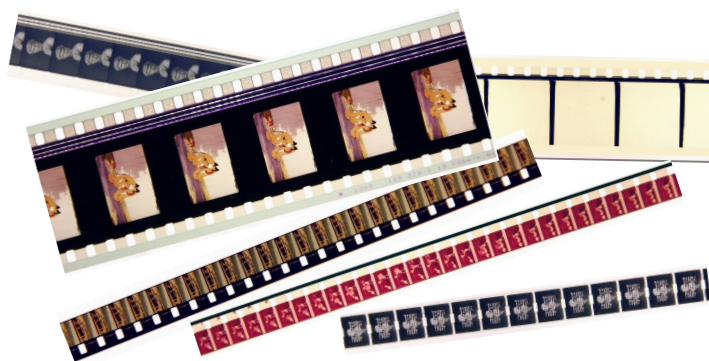


# D-Observer Cat.Cine 3

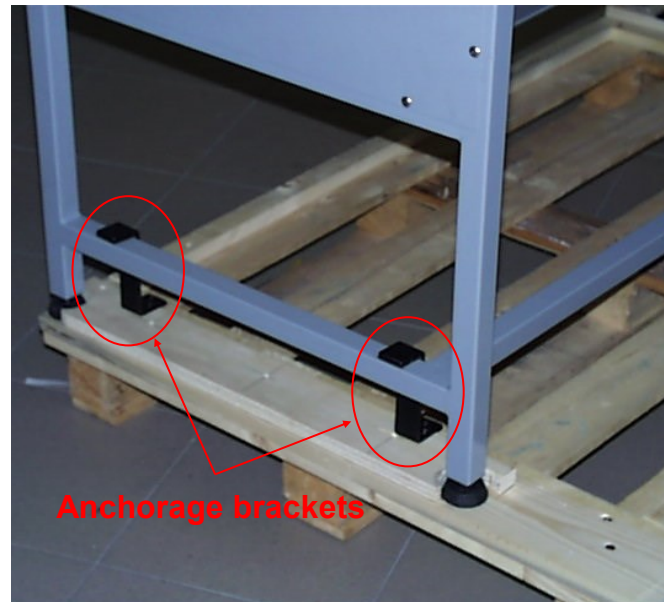


## User's Guide

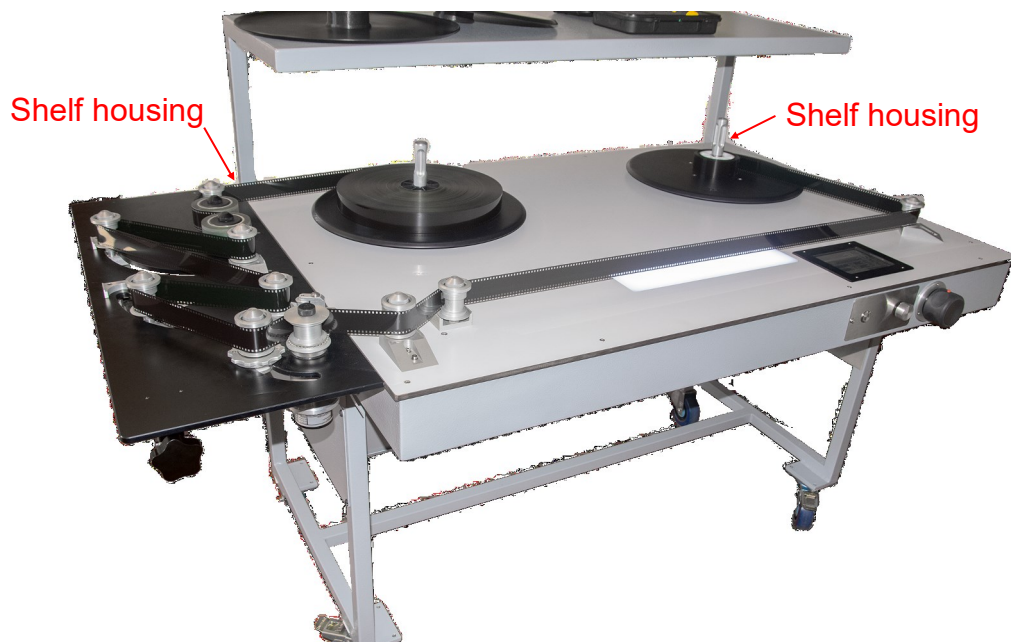


## Packaging basement

To take out the D-Observer from the packaging basement, release it first unscrewing the anchorage brackets!



Insert the shelf supports into their housing as shows the following picture.



## Security

The D-Observer functionality and quality are factory tested. Read carefully the user's guide to ensure security and accuracy of operations. The assembling and initialization of the equipment require people expert in the know-how.

Please attend to the following precautions for your safety:

1. place the equipment on a flat-bottomed floor, eventually compensating differences in level by regulating the little screw-feet.
2. do not obstruct the ventilation outlets (see image).

Inner logic protection algorithm automatically intervene for the safeguard of both film and operator, in case of mishandling.

Fuse has been installed for the protection of the electronic cards, of the motors and of the power supply feeders.

An emergency button, handy placed, provides for an immediate stop.

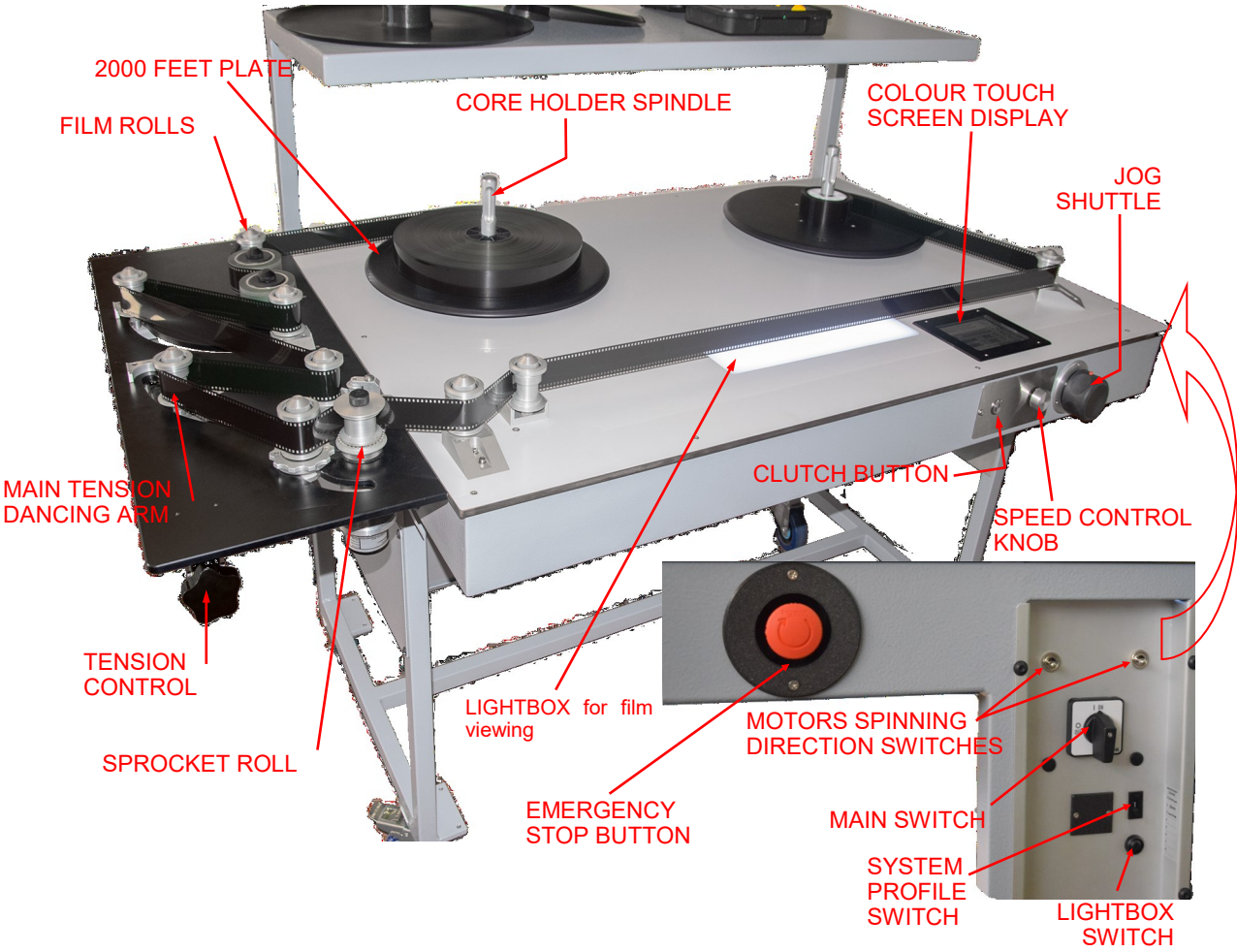


D-Observer is equipped with a set of wheels useful for an easy management of its positioning.

Once it is placed as desired, remember to activate its brakes to avoid undesired slidings/drifts of the equipment.

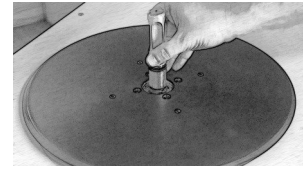


# EQUIPMENT LAYOUT

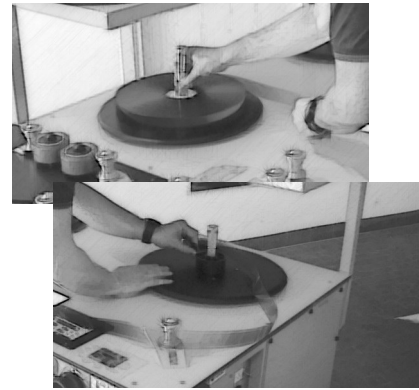


## Film loading

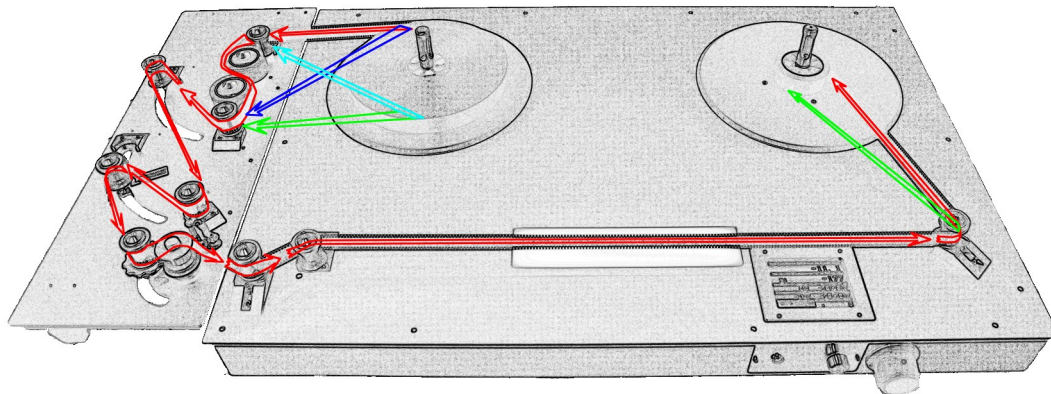
- Install on both plates the reel expansion axis aligning and inserting them into the square fitting slots.



- Place the job roll on the left plate.
- Place the film take-up spool on the table right plate.



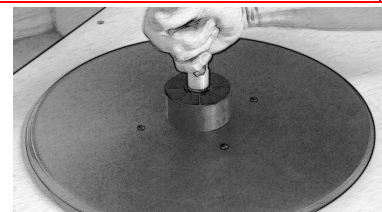
- Unroll film from left roll and load it on the right one following the direction indicated by the red line.



### LEGENDA:

<b>RED path</b>	Counter clock wise plates spinning, PTR passing though.
<b>BLUE/RED path</b>	Counter clock wise plates spinning, PTR bypass (left plate).
<b>CYAN/RED/GREEN path</b>	Clock wise plates spinning, PTR passing through.
<b>GREEN/RED/GREEN path</b>	Clock wise plates spinning, PTR bypass (left plate).

- Hook up the film to the right film take-up spool.
- Tight the right roll on its axis rotating it clockwise.



- Stretch the film till the main dancing tension arm reaches the marked reference.



It is possible to invert the plates spinning direction through the dedicated switches from byside panel.

## Film winding

DObserver offers three different type of controls for moving the film.

- **Speed control knob:** this three positions switch rolls forward (three positions clock wise) or backward (three positions counter clock wise) the film reels. Every single position represents a customisable reference speed to run the film at.



As reference:

- Factory default for 35mm (profile 1, profile 3 Oz.):  
Pos1 = 16fps  
Pos2 = 24fps  
Pos3 = 50fps
- Factory default for 16mm (profile 2, profile 4 Oz.):  
Pos1 = 18fps  
Pos2 = 24fps  
Pos3 = 200fps
- **Jog shuttle:** this variable position knob, offers a free speed film movement control. Clock wise turns for going forward, counter clock wise for backward (central stops). As reference for the top (customisable) speed reference (end or the rotation path):
  - Factory default for 35mm (profile 1, profile 3 Oz.): 160 fps.
  - Factory default for 16mm (profile 2, profile 4 Oz.): 200 fps.
- **Frame search function:** this equipment function activates a frame (or optionally feet) reasearch procedure that will activate motors winding and film movement toward the selected target.

Function can be used for:

- Absolute values (PRESET A): equipment rolls film to the frames entered target position.
- Relative values (PRESET R): equipment will generate the target position (Preset as positive or negative) **adding** (for positive values) or **subtracting** (for negative values) to the actual counter value the inserted one.



**Note:** By pushing the ENTER key, once the goal in absolute mode A is achieved, the system will restart to search with more precision the preset goal (considering that the machine stop precision is inversely proportional to the film running speed, the system will never stop at first exactly on the wanted frame, but will approach it with a +/-5 fr margin; an additional pushing of the ENTER key is therefore necessary to remove. By pushing the ENTER key, once the goal in relative value R is achieved, the system will start the search of a new goal equivalent to the algebraic addition of the actual film position (Ft) and the wanted value (Preset).

SEEKING FUNCTION MENU  
INPUT THE DESIRED VALUE USING THE KEYBOARD AND  
PRESS "ENTER" TO MOVE THE FILM TO THE REQUIRED FRAME.



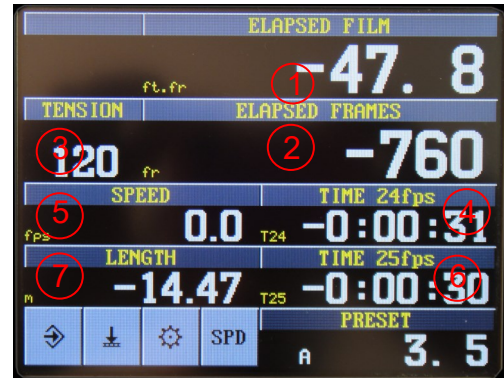
ESC : Abort and exit  
+/- : Positive/Negative values  
A/R: Absolute/Relative modality  
CANC: Delete last entered digit  
ENTER: Start seeking

**Interrupting the frame research process:** the **STOP** appeared button (on touch screen) will immediately interrupt the function and stop the motors.



## Touch Screen functions - Display Indications

The system display always shows in real-time the position reference and running speed as:

1. Feet.frames (ft.fr) elapsed film lenght.
2. Total elapsed frames (fr) counting.
3. Applied tension reference :
  - profile 0, profile 2 g Hg. unit of weight.
  - profile 1, profile 3 g Oz. unit of weight.
4. Checked Time Code film duration at 24 fps (T24)
5. Current film running speed (fps)
6. Checked Time Code film duration at 25 fps (T25)
7. Metres elapsed film lenght.



Other functions are also accessible from it just touching the proper menu button:

- Counter set/reset menu. 
- Frame search menu. 
- ~~Steadiness functions~~(feature not useful with Cine3).

## System parameters

The D-Observer behaviour is strictly related to some parameters that can be stored/changed from 8 different flashed profiles. From the right side panel, through the dedicated numeric switch, you can select the desired set of setting needed for the style of job you're going to start.

Cine3 is supplied with 4 for standard optimised settings:

- 1: 35mm films. Hectogram unit of weight.
- 2: 16mm films. Hectogram unit of weight.
- 3: 35mm films. Ounces unit of weight.
- 4: 16mm films. Ounces unit of weight.
- 5 to 8 : free profiles

SYSTEM  
PROFILE  
SWITCH



**Switch in between memory profiles having equipment OFF.**

## Maintenance

Thanks to its solid design and to the high quality of its materials, this equipment does not require any periodical maintenance as all its parts are not subject to specific wearing and the electronic components are long-use and particularly resistant.