



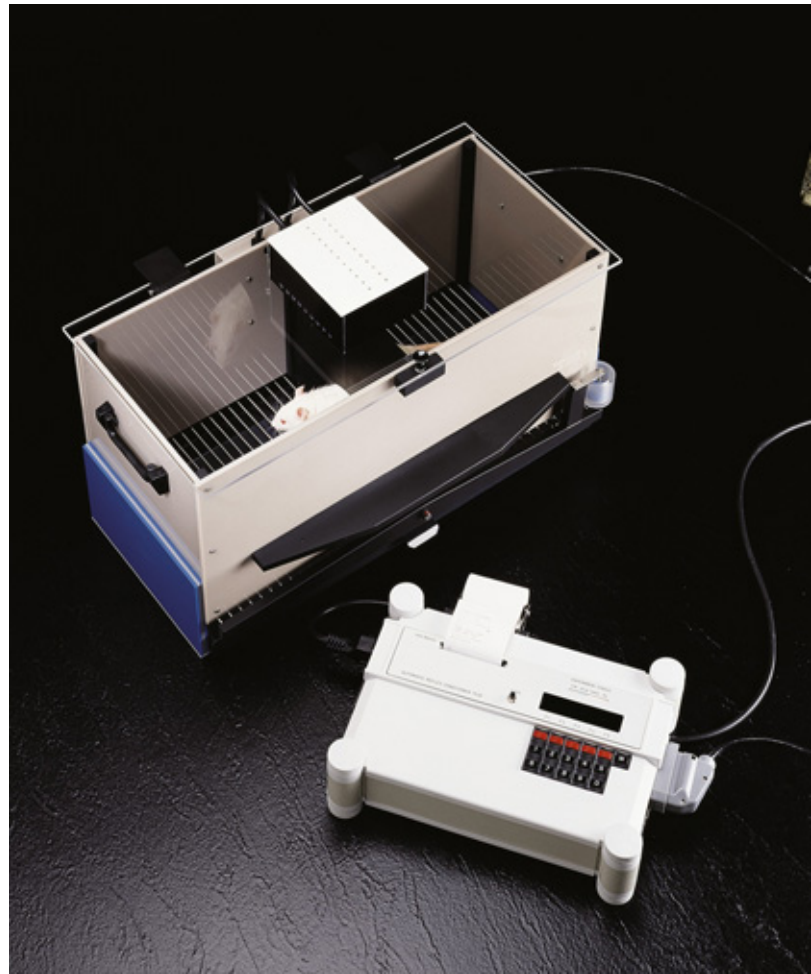
## Automatic Reflex Conditioner (Active Avoidance)

Cat. No. 7530 Rats   Cat. No. 7530-M Mice

### General

The new model of Ugo Basile Automatic Reflex Conditioner Cat. 7530 is a microprocessor controlled unit, designed to enable the researcher to perform a wide range of avoidance experiments, each according to a flexible schedule, namely the shuttle-box classical test in its various modes:

- The classic **Shuttle Box Test** with shock delivered with or without the presence of the **Conditioning Stimulus**.
- The **Timing Experiment**, in which the animal always gets the shock until it crosses, one or more time, as pre-set. This is a useful schedule, which allows the operator to condition the animal in a short time, before passing to the classic Shuttle-Box Test.
- The **Crossing Test**, which is in practice a Shuttle-Box experiment, the difference being that the animal has to cross more than once (as pre-set) to stop the trial.
- The **Conflict Test** in which the animal always gets the shock for the preset duration, even if it crosses several times.



## Active Avoidance set-up

### Main Features

- Flexible Avoidance-Experiment Schedules: Shuttle Box, Timing, Conflict, Crossings Test
- Embedded printer, stand-alone memory and software: all included!
- Reliable and durable tilting-floor detection mechanism

The 7530 consists of a Programming-Recording Unit (Cat. 7531) and a Cage divided into two sections by a partition with an intercommunicating door at floor level.

## Animal Cage

Two types of cages are available:

- **7532** designed for **Rats**, dimensioned 52x30x35 (h) cm, inside dimensions 40x20x22 (h) cm (see model **7550**)
- **7533**, designed for **Mice**, dimensioned 47x18x26 (h) cm (inside dimensions 39x9.5x16.5 (h) cm (see **7550-M**))

Both cages are provided with acoustic and visual conditioning stimulators. The reinforcement consists of an electrical stimulus applied to the floor bars of the cage by an incorporated 8-pole "scrambling" circuit.

When the animal passes through the door, the floor of the cage tilts, thus operating a reed contact/magnet arrangement, which cuts out all the stimuli or, if the crossing takes place during the pause, records the intertrial crossing.

## Programming/Recording Unit

The **Programming** circuits of the 7531 supply the stimuli, the magnitude, rate and duration of which can be varied, while the **Recording** section records the animal responses in several selectable analog and digital formats.

The trials can be adjusted on what concerns their number, the acoustic/visual stimulus, delay, shock intensity, inter-trial pause duration.

The recording, both analog and digital, discriminates between responses caused by acoustic and/or visual stimuli (**conditioned reflexes**) and those requiring an electrical stimulus as well (**reinforcements**).

The Programming/Recording Unit is provided with a key-board and a display window

## Data Acquisition

The 7530 Automatic Reflex Conditioner is a microprocessor controlled unit. The experimental data, stored in its internal memory can be directly exported to the PC USB or serial ports.

Communication is managed by the dedicated CUB Data Acquisition Software Package, Cat. 52050-05, included as standard or by the 52010 Win-DAS Software. The CUB Windows®-based Software Package enables

the user to route to the PC the data originated by UB instruments and store them into individual files, ready to be easily managed by most statistical analysis packages available on the market. Ask for details!

## Ordering Information

**7530 Automatic Reflex Conditioner, for Rat, standard package**, including:-

- 7531** Programming Recording Unit
- 7532** Rat Cage, complete
- 37400-302** Package of 10 Heat Sensitive Paper Rolls
- 7537** 8-Pole Connection Cable
- 7520** Spare Bulb for 7532 & 7533 cages
- 7513** Dust Cover for Cage 7532
- 7526** Dust Cover for 7531
- 7538** Instruction Manual
- 52050-05** CUB Software Package, with serial cable
- 52010-320** Serial to USB adaptor

Set of fuses for either 230 V or 115V operation

**7530-M Automatic Reflex Conditioner, for Mice, standard package**, including same accessories as the rat model, except:

- 7533** Mouse Cage, complete
- 7514** Dust Cover for Cage 7533

### OPTIONS:

- 7534** 8-Pole Switching Box for 2-cage operation

## Bibliography

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