

# Digital Stimulators

Precise and easy-to-use stimulators for organ bath studies

**NEW**

**Now 50 W!**

until 500 mA Output  
per channel



## Key Features

- Allows stimulation of more than one isolated tissue preparation
- Stimulation by Voltage and Current
- Visual short-circuit security warning
- Square-wave pulse
- Built-in isolated output circuit (not related to ground)
- Selected-parameters violation warning
- Monopulse, Continuous and Train stimulations
- TTL signal allowing for the external control of the pulse onset
- DC Output
- 125/220-50/60Hz power supply

## PRODUCT OVERVIEW

Panlab provides a complete set of precise, compact and easy-to-use single-, double- or four-channels digital stimulators for general pharmacology and physiology.

With a wide range of stimulation parameters, these stimulators offer an excellent and low priced alternative when single pulse and train stimulation is required.

## APPLICATIONS

Organ Bath studies, cardiovascular diseases...

## Basic stimulator LE12006: IDEAL SOLUTION FOR TEACHING PURPOSE!

- Square-wave pulse
- Built-in isolated output circuit (not related to ground)
- TTL signal allowing for the external control of the pulse onset



### SPECIFICATIONS

Number of Channels	1 channel
Pulse Frequency	0.01 - 99.99 Hz (0.01 Hz step)
Pulse Duration	0.1 - 9.9 ms (0.1 ms step)
OUTPUT Voltage	0 - 50 V (1 V resolution)
OUTPUT Max. Power	15 W (250 mA)
Accuracy	≤ 4% for timings and output
Power Supply	125/220V, 50/60Hz



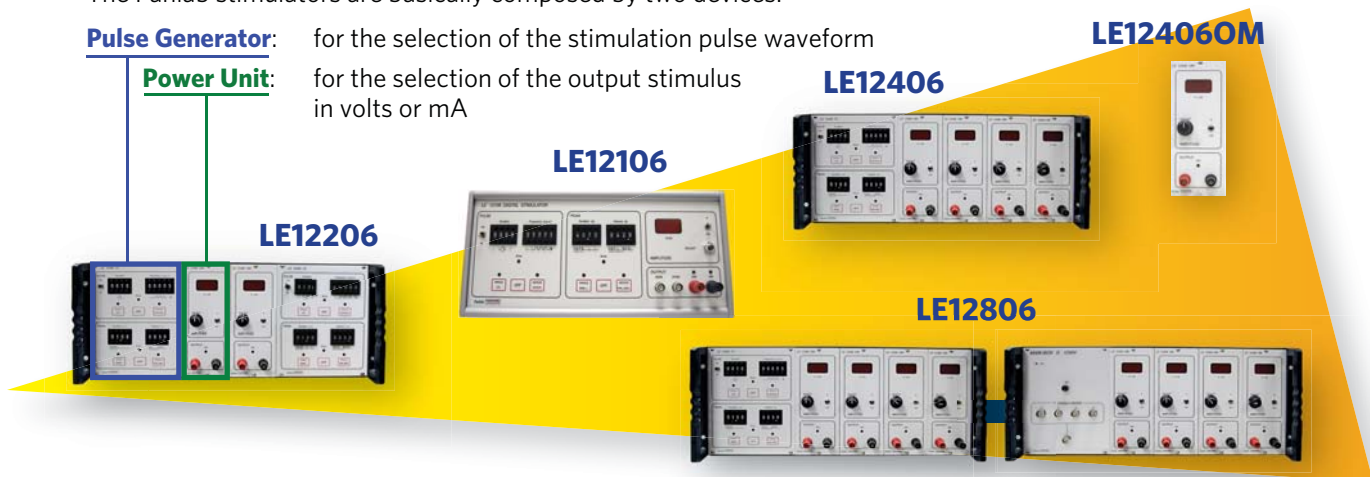
# Digital stimulators

## ONE CONFIGURATION FOR EACH NEED!

The Panlab stimulators are basically composed by two devices:

**Pulse Generator:** for the selection of the stimulation pulse waveform

**Power Unit:** for the selection of the output stimulus in volts or mA



SPECIFICATIONS	
<b>PULSE GENERATOR</b>	
PULSE Frequency	1 Hz - 10 KHz (1 Hz step)
PULSE Duration	1 - 9999 $\mu$ s (1 $\mu$ s step); 1 - 9999 ms (1 ms step)
TRAIN Interval	0.1 - 999.9 s (1 s step)
TRAIN Duration	1 - 99.99 s (0.01 s step)
FIXED OUTPUT	5 V (TTL)
Accuracy	$\leq$ 2% for timings and output
<b>POWER UNIT</b>	
OUTPUT Voltage	0 - 100 V (1 V resolution); constant voltage (automated short circuit security)
OUTPUT Current	0 - 500 mA (5 mA resolution); constant current (automated short circuit security)
OUTPUT Max. Power	50 W per channel (500 mA)

ORDERING INFORMATION				Dimensions
COMPACT SYSTEMS				(W x D x H)
LE12006	76-0061	1-Channel Basic Stimulator for teaching purpose		29 x 27 x 7 cm
LE12106	76-0055	1-Channel Digital Stimulator including 1 Pulse generator and 1 Power unit		34 x 31 x 15 cm
LE12206	76-0057	2-Channels Stimulator including 2 Pulse generators and 2 Power units		45 x 35 x 19 cm
LE12406		4-Channels Stimulator including 1 Pulse generator and 4 Power units		45 x 35 x 19 cm
MODULAR SYSTEMS				
LE12406OM	76-0058	Power Unit module (LE12406TC needed)		7 x 12 x 17 cm
LE12406TC	76-0059	Pulse Generator & Mainframe module for up to 4 LE12406OM units		45 x 35 x 19 cm
LE12404	76-0060	Mainframe module for up to 4 LE12406OM units (External Pulse generator needed)		45 x 35 x 19 cm
LE12806		8-Channels Stimulator package including 1 LE12406TC, 1 LE12404 and 8 LE12406OM		2 x (45 x 35 x 19 cm)
OTHER ACCESSORIES				
OPTION	TRS081	76-0114	Nerve Electrode	
OPTION	TRS082	76-0114	Bipolar Electrode	