



# CRONO *five*

## DESCRIPTION OF THE PUMP

CRONO Five is a new, innovative PCA pump that is very appreciated by health care professionals and patients due to its small size and technical features.

CRONO Five is an ambulatory infusion pump especially suited for controlled drug administration on patients in hospital or undergoing a therapy at home. The pump is suitable for subcutaneous, intra-venous, epidural and intrathecal infusions allowing 4 different administration modalities:

1. Continuous
2. Bolus dose upon request (PCA)
3. Clinician bolus (managed by clinician)
4. Combined (continuous + bolus upon request + clinician bolus)

The pump is provided with key-pad lock-out functions in order to avoid un-authorized reprogramming of the drug administration protocol. The liquid crystal display (LCD) shows the information which are helpful both for the clinician and the patient like programming, reading of administered drug volumes and control functions of the pump.

## TECHNICAL FEATURES

<b>Pump size</b>	77 x 47 x 29 mm.
<b>Weight</b>	115 g (battery included).
<b>Battery</b>	CR 123A 3V Lithium battery (battery life: about 6 months).
<b>Syringe</b>	Dedicated 10 and 20 ml capacity with luer-lock connector.
<b>Administration volumes</b>	From 1 ml to 20 ml with increments of 1 ml.
<b>Priming</b>	Available only at the beginning of an infusion or partial infusion. The maximum deliverable volume is 1.5 ml with 0.5 ml increments.
<b>Flow rate</b>	Programmable from 5 to 5000 µl/h with the following increments: - from 5 to 1000 µl/h with 5 µl/h increments; - from 1000 to 5000 µl/h with 10 µl/h increments; The flow rate can be programmed to 0 ml.
<b>Bolus dose</b>	Programmable from 0.01 to 2.00 ml with 0.01 ml increments: The bolus dose can be programmed to 0 ml.
<b>Clinician bolus</b>	Programmable from 0.01 to 2.00 ml with 0.01 ml increments: This function is always locked.
<b>Minimum time between bolus doses</b>	Programmable from 5' to 24 h as follows: - from 5' to 1h with increments of 5'; - from 1 h to 24 h with increments of 15'; - this function can be deactivated by programming 0.
<b>Number of boluses doses per hour</b>	- from 1 to 12 boluses. - this function can be deactivated by programming 0.
<b>Flow accuracy</b>	+/-2% (observation period 40 minutes).
<b>Max. occlusion pressure</b>	2.2 +/-0.8 bar.
<b>Data storage</b>	The selected data are automatically stored in the pump memory and they are not lost when the battery is removed.
<b>Motor</b>	DC coreless motor microprocessor controlled, equipped with optical encoder.
<b>Safety circuits</b>	To monitor the correct working of the device intervening in case of anomalies with acoustic warnings and error messages.
<b>Anti free-flow system</b>	To avoid a non controlled flow inside the delivery set due to the force of gravity.
<b>Standard equipment supplied</b>	Fabric holder, elastic belt, collar strap, two batteries, tool to open battery compartment, user guide.
<b>Manufacturer's guarantee</b>	CANÈ S.p.A. guarantees that this product is free from defects in materials and workmanship for a period of 2 (two) years beginning from the date of purchase.