

Target Controlled Infusion
PION™ TCI System

SPECIFICATIONS

Display and Input	Output : 3.5 " Color TFT LCD, LED (Alarm, Power, Battery) Input : Encoder, 7 Keys(Power, Alarm, Start, Stop, New, Prime, Information)
Compatible Syringe	10, 20, 30, 50 ml (BD Plastipak, Omnifix, Terumo and Specified Brands)
Range of Flow Rate	0.1 ~ 1200 ml/h (Accuracy 3%)
Occlusion Pressure	1~8 level (125mmHg steps)
Alarm	NEOI(Near End Of Infusion), EOI(End Of Infusion), Occlusion, Battery Discharge, Syringe Status
Power Supply	AC 100 ~ 240 VAC/50 ~ 60Hz
Battery and Life	DC 12V/2200mAh Ni-MH Battery 2 Hours at 10ml/h (Discharged), Over 6 Hours (Fully-Charged)
Communication	RS-232 for Communication USB for S/W Upgrade
Function	- Automatic Calculation of Infusion (Setting of Patient, Drug and Target) - History Save and View (Max. 160 Hours, Cursor Analysis) - Global View Graph and Text for Infusion Parameter (Blood Concentration, Effect Site Concentration, Infusion Rate, Target Concentration, Wakeup Time, Total Infused Dosage, Total Infused Time, Drug and Patient Information)
Dimension	250(W) x 190(H) x 150(D) mm
Weight	2 Kg
Mounting	Clamp on Pole
Environment	Operating Temperature: 10 ~ 40°C Operating Humidity : 30 ~ 85 % Storage : -10 ~ 60°C, 10 ~ 90%
Accessories	AC Power Cord, Operation Manual

*Specifications can be changed without prior notification.



- TCI of Intravenous Anesthesia !!
- Selectable Drug Library and Without Calculation by Anesthetist !!
- Superior Color TFT LCD and Concentration Graph !!
- User-Friendly for Setting and Controlling !!

- * Superior Advantages and Quality
 - 3.5 inch Color TFT LCD(640x480)
 - Global View Graph
 - 2 Induction Mode : Flash / Gradual Induction
 - Recovery Time Prediction and Total Dosage

- * Flexibility
 - Selectable Drug Library and Concentration
 - Automatic Syringe Size Detection and Selectable Syringe Maker

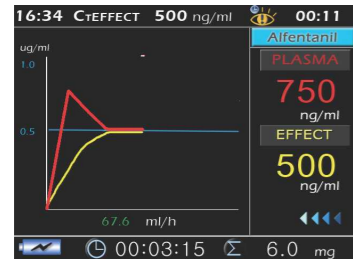
- * Easy-to-Use
 - Trim Knob for Easy Setting and Direct Keys
 - Automatically Calculation for Infusion Control

- * Management
 - 160 hours History
 - Alarm : NEOI, EOI, Occlusion, Battery Discharge, Syringe Status
 - RS-232 Communication

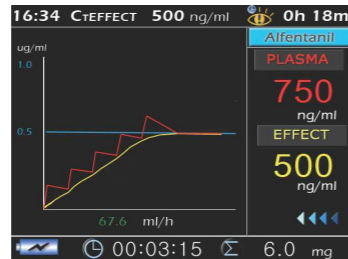
Pion TCI[®] is an infusion system developed for Target Controlled Infusion(TCI) of IV anesthetics. It is designed to be used easily without the calculation of infusion rate by anesthetists. Pion TCI[®] allows the anesthetist to set the target blood concentration to achieve a desired anesthetic depth. Pion TCI[®] controls infusion rate by an algorithm based on the pharmacokinetic model for an anesthetic.

*** Superior Advantages and Quality**

- 3.5 inch Color TFT LCD(640x480)
- Global View Graph of Blood and Effect Site Concentration, Infusion Rate and Alarm
- Recovery(Wakeup) Time Prediction and Total Infused Dosage
- 2 Induction Mode : Flash Induction, Gradual Induction



[Flash Induction]



[Gradual Induction]

*** Flexibility**

- Selectable Drug Library and Drug Concentration (Propofol, Remifentanyl, Sufentanyl, Alfentanil, ...)
- Automatically Syringe Size Detection and Selectable Syringe Maker

PATIENT	
ID	0810091319
AGE	40 yrs
SEX	MALE
HEIGHT	170 cm
WEIGHT	70 kg
DRUG	
Alfentanil	500 ug/ml
Maitre	Vc=7.77 L
	k10=0.0458m; k12=0.1040m; k13=0.0170m;
	k21=0.0673m; k31=0.0126m; keo=0.7700m;
SYRINGE	
BD PLASTIPAK	50 ml
00:03:15 6.0 mg	

[Infusion Information]

INFUSION SET		EFFECT
DRUG NAME	ALFENTANIL	
DRUG CONC.	500.0	ug/ml
TARGET MODE	EFFECT	
TARGET CONC.	500.0	ng/ml
WAKEUP CONC.	50.0	ng/ml
MAXIMUM CP	4000.0	ng/ml
INDUCTION TIME	FLASH	
SYRINGE MAKER	BD PLASTIPAK	
OCCLUSSION LIMIT	1000	mmHg

[Infusion Setting]

*** Management**

- Max. 160 hours History (Save, View, Cursor Analysis)
- RS-232 Communication



[History Mode]

*** Easy-to-Use**

- Trim Knob(Encoder) for Easy Setting Menu and Direct Keys for Operation
- Automatically Calculated Infusion according to the Target Concentration
- Audible and Visible Alarm Monitor
- Hand-Free Bolus



*** Pole Stacking**



* Easy to load syringe 3 holders for safety

*** Alarm Monitor**

- (Nearly)End of Infusion, Occlusion, Battery Discharge, Syringe Status

