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Mindray Medical Netherlands B.V.
Drs.W.van Royenstraat 8, 3871 AN Hoevelaken, The Netherlands
Voice: (31-33) 254-4911
Fax: (31-33) 253-4280

Mindray Medical Italy S.r.l.
Via Leonardo DA Vinci, 158, 20090 Trezzano Sul Naviglio (MI), Italy
Voice: (39-02) 5737-401
Fax: (39-02) 5523-2018

Mindray Medical España S.L.
Avenida Manteras 38, Edificio B, Bajo B008.28050-Madrid Spain
Voice: (34-91) 392-3754
Fax: (34-91) 392-3756

Mindray Medical Germany GmbH
Zwischen den Bächen 4, 64625 Bensheim, Germany
Voice: (49) 6251-17524-0
Fax: (49) 6251-17524-20

Mindray (UK) Limited
3 Percy Road, St Johns Park, Huntingdon, Cambs, PE29 6SZ United Kingdom
Voice: (44) 1480-416-840
Fax: (44) 1480-436-588

Mindray Medical France SARL
Europarc Creteil 1 allée des cerisiers 94000 CRETEIL, France
Voice: (33-1) 4513-9150
Fax: (33-1) 4513-9151

Mindray Medical Sweden AB
Risseleden 136, 174 57 Sundbyberg, Sweden

Voice: (46) 8 555 54 121
Fax: (46) 8 555 54 101
Mindray Medical Rus Co.Ltd
2 Zvenigorodskaya Street, 13, bld 41, 123022 Moscow, Russia
Voice: (7-499) 553-6036
Fax: (7-499) 553-6039

Mindray Medical Colombia S.A.S
Room No.702, Torre UNIKA, Carrera 9 No.77-67, Bogota, Colombia
Voice: (57-1) 3130892 / 3210916

Mindray do Brasil - Comércio e Distribuição de Equipamentos Médicos Ltda.
Rua Tavares Bastos, 329, Perdizes, São Paulo - SP, CEP 05012-020
Voice: (55-11) 3124-8026
Fax: (55-11) 3078-8035

Mindray Medical Mexico S. de R.L. de C.V.
Félix Parra # 175 Colonia. San José Insurgentes Sur Delegación Benito Juárez 03900 México, D. F.
Voice: (52-55) 5661-9450 / (52-55) 5662-6620
Fax: (52-55) 5662-6597

PT.Mindray Medical Indonesia
The East 11th Floor, Unit 08Jl. Dr. Ide Anak Agung Gde Agung Kav. E 3.2 No.1 Jakarta 12950
Voice: (6221) 2902-7280
Fax: (6221) 2902-7283

Mindray Medical Egypt
Ground Floor -11 El Imam Metwally El Sharawi Street, Sheraton Heliopolis - El Nozha, Cairo, Egypt
Voice: (2) 02 22691047
Fax: (2) 02 22691046

Mindray Medical Australia
ADD: 19 Harker St, Burwood VIC 3125, Australia
Voice: (61-3) 9830 6610
Fax: (61-2) 9550 2841

Mindray Medical Nigeria
ADD: 1004 Estate, Victoria Island, Lagos, Nigeria
Voice: (+234) 7030682053

Mindray Medical India Pvt. Ltd. (Delhi Office)
16th floor, Building No. 9-B, DLF Cyber City, DLF Phase- 3, Gurgaon- 122002, Haryana
Voice: (91-124) 4632-488
Fax: (91-124) 4632499

Mindray Medical India Pvt. Ltd. (Mumbai office)
B-404, City Point, Andheri Kurla Road, Andheri East, Mumbai, 400 059, India
Voice: (91-22) 4020-0000
Fax: (91-22) 4020-0011

Mindray Medikal Teknoloji Istanbul Ltd. Sti.
KÖYALTI MEVKİLİ 29 EKİM CAD.N.1 KUYUMÇUKENT 2.NO.PLZ.3.KT. D.1- 9 34520 BAĞÇELİEVLER/YENİBOSNA, İSTANBUL, TÜRKİYE
Voice: (90-212) 482 08 77
Fax: (90-212) 482 08 78

Mindray Medikal Teknoloji Istanbul Ltd. Sti. Branch Office Ankara
TURAN GÜNEŞ BULVARI ALEKSANDER DÜBÇEK CAD. NO:18/A ÇANKAYA/ANKARA, TÜRKİYE
Voice: (90-312) 441 96 92
Fax: (90-312) 441 96 93

Mindray Medical Vietnam Co.,Ltd.
Unit 2, 4th Floor, "B" Building, Broadway Office Park, 102 Nguyen Luong Bang Blvd., Tan Phu Ward, Dist. 7, HCMC, Vietnam
Voice: (84) 8 5413-6970
Fax: (84) 8 5413-6971

Mindray Medical Thailand Limited
1768 Thai summit Tower Room 407, 4th floor, New patchaburee Road, Kwaeng Bangkapi, Khet Hual Khwang, Bangkok 10320, Thailand
Voice: (66) 2652-7288
Fax: (66) 2652-7266



BeneFusion SP5 TCI Advanced Anesthesia Syringe Pump

Mindray Building, Keji 12th Road South,
High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China
Tel: +86 755 8188 8998 Fax: +86 755 26582680
E-mail: intl-market@mindray.com www.mindray.com

Mindray is listed on the NYSE under the symbol "MR"

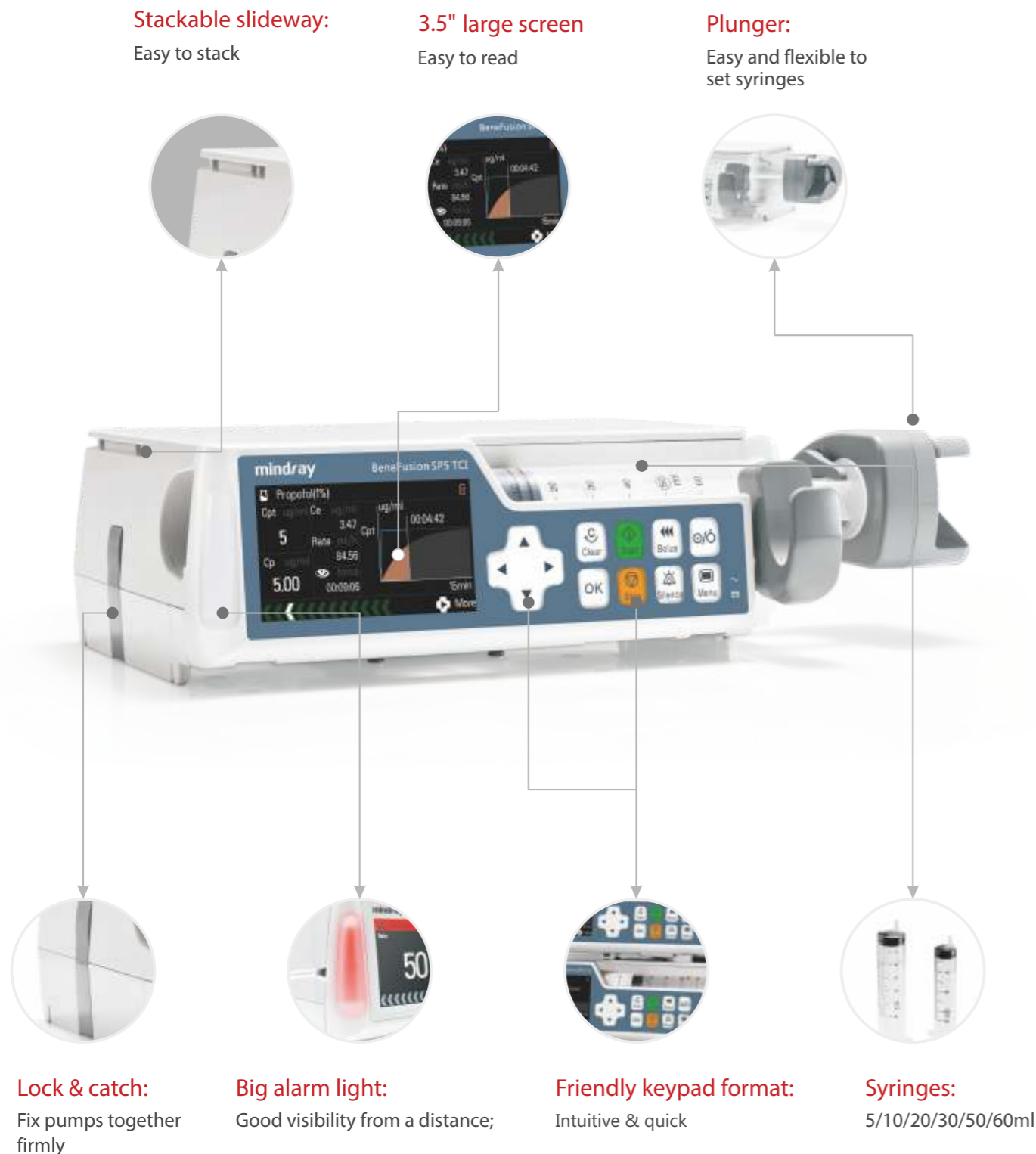
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P/N:ENG-BeneFusion SP5 TCI-210x285x8P-20150911



mindray
healthcare within reach

Ease of use



Powerful Function for Anesthesia

BeneFusion SP5 TIVA and BeneFusion SP5 TCI is our new advanced solution for intravenous anesthesia. It combines ease of use and advanced safety feature as well as powerful anesthesia functions in one single pump, making intravenous anesthesia much safer and easier. Anesthetists could choose either TCI (target control infusion) mode or TIVA (total intravenous anesthesia) mode according to patient need or personal preference.

TCI - Target Controlled Infusion

The TCI mode provides confident pharmacokinetics (PK) model for both adult and child.

Drug Name	PK Model	Drug concentration	Target	Age (years)	Cpt/Cet
Propofol	Marsh	10.0 mg/ml (1%) 20.0 mg/ml (2%)	Plasma	16 - 150	0.0 - 15.0ug/ml
	Schnider		Plasma/Effect Site	16 - 94	
	Kataria (Pedia)		Plasma	3 - 16	
	Paedfusor (Pedia)		Plasma	1 - 18	
Remifentanyl	Minto	20.0 - 50.0 ug/ml	Plasma/Effect Site	12 - 100	0.0 - 20.0 ng/ml
Sulfentanyl	Gepts	0.20 - 5.00 ug/ml	Plasma/Effect Site	12 - 150	0.0 - 20.0 ng/ml
Alfentanil	Maitre	100 - 500 ug/ml	Plasma/Effect Site	18 - 95	0.0 - 500 ng/ml

* Cpt: target plasma concentration

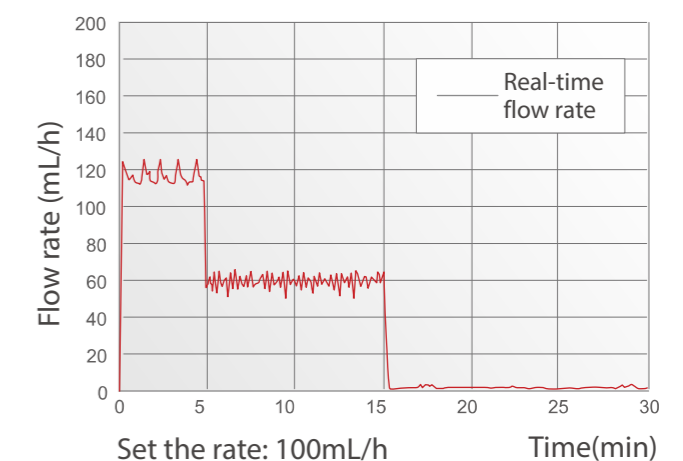
* Cet: target effect site concentration

TIVA

Total Intravenous Anesthesia

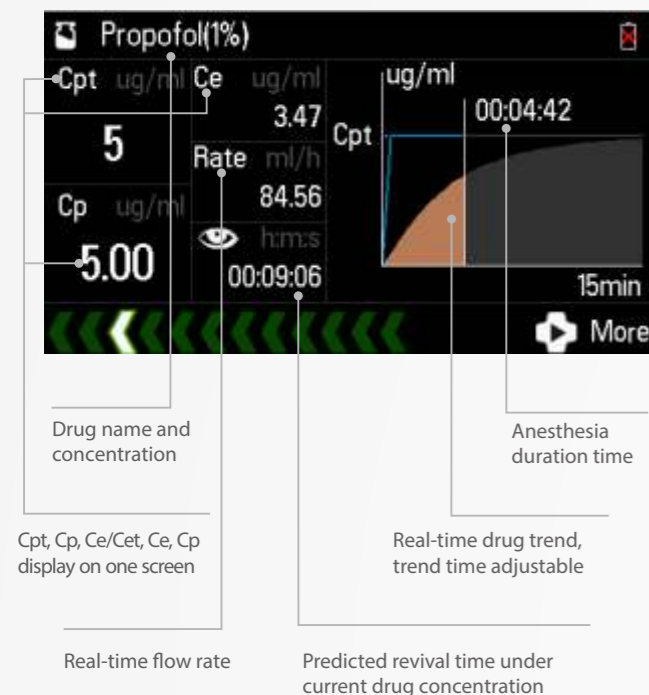
The smart TIVA pump helps to administer anesthesia drugs so that the anesthetists can concentrate on improving patient care.

TIVA Mode



Intuitive Display

The 3.5" TFT color screen allows for multi-information display on one screen.



Users could check the therapy details anytime during the running process. Full detailed information will be displayed on one screen, including drug name and concentration, PK model, patient's information, used drug amount, volume and current dose, revival drug concentration and total duration time.

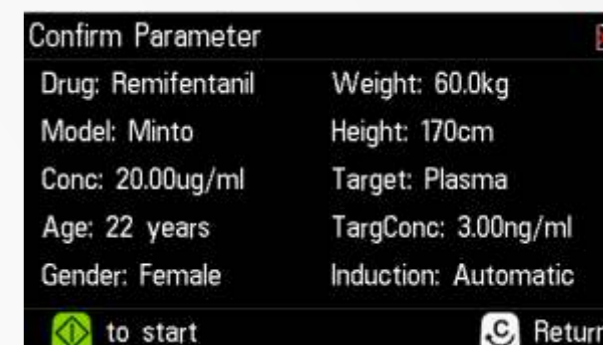
Patient Concern

4 Induction pattern




Choose the induction pattern according to patient condition, and operation requirement.

Confirm parameter page



Confirm parameter page before starting, allowing you to double confirm the information for both patient and drug.

OTCI

Optimised TCI function allows you to eliminate individual differences caused by population error. Anesthetists can lock Ce by pressing and holding the  button if the ideal anesthetic depth is being reached.

Intuitive Operation

Step-by-step set-up process, so you don't need to remember every step and possible mis-operation is greatly reduced.



Convert target/ Convert TCI -> TIVA

BeneFusion SP5 TCI allows you to convert between plasma target and effect site target when you pause the pump, and also allows you to convert easily from TCI mode to TIVA mode and back again. The PK calculation will not stop until end of operation.



Accuracy

High accuracy

High accuracy is achieved within $\pm 2\%$ when flow rate is $\geq 1\text{ml/h}$; and 5% when flow rate is $< 1\text{ml/h}$.

Safety

Automatic drug compensation

Professional algorithm ensures precise target concentration. It supports automatic drug compensation to re-reach the target concentration after syringe change or any other incident that results in the infusion being suspended or stopped.

Titration function

Titration makes it possible to change target concentration during operation without stopping the pump, guaranteeing continuous infusion.

End operation

Re-selection of PK model or other infusion mode is allowed only after the end of operation or the pump is turned off. This ensure correct continuous calculation will not be interrupted until the end of the operation.

History record

Up to 2000 pieces of infusion information will be stored automatically. The latest records are listed at the top with specific date and time, helping care givers to analyse patients' clinical conditions and to provide good treatment references.

Powerful battery

Powerful battery delivers more than 10 hours battery operating time with only 6 hours charging time. The long run battery is designed to continue through major operations as well as extended post-operative sedation and analgesia infusion.



Experience every drop of care.
Your expert partner for intravenous anesthesia.