## **Vetpump Pro VP-50**





Vetl Vetpump Pro VP-50 Infusion Pump works both on battery and mains power supply, which is perfectly adapted for veterinary use. Our multi-function infusion pumps bring precision, ease of use, safety and versatility for your day to day fluid therapy requirements.

- Uses any standard IV sets and stores up to 20 editable brands
- 4.3 inch color touch screen, parameter setting and editing directly
- Multi-function operation with 4 modes:
- Rate Mode, Time Mode, Body-weight mode and Drip mode
- Micro Mode specifically designed for small animals
- Flow rates range from 0.1 ml/h to 1,500ml/h with increment of 0.01 ml/h
- Double CPU for increased safety, Ultrasonic air-in-line detector
- IrDA, Wifi, Nurse Call, RS232, data export etc
- Historic record more than 5000 entries
- Battery Standard: 4.5 hours; Optional: 9 hours (@25ml/h)
- IP34 waterproof, handle included and inter-lockable design
- 4 of the most common IV sets used in Australian Vet clinics are pre-loaded in settings.
- System will Store 20 IV sets for instant set selection.
- Complete with IV pole clamp
- New" Cage door" clip mounting system now available.
- Both VP50 infusion and SP 50 Syringe pumps are stackable
- 2 year warranty



## Vetpump Pro VP-50



Weight   1.4kg   Standard accessory, up loaded   Dockable   Yes   Door   manual   CPU   Double CPU   Pressure sensor   Up & down air bubble detectory   Air bubble detector   Up & down air bubble detectory   Air bubble detector   Up & down air bubble detectory   Ambulance us   Apply GBRT 14710-2009 transport test   P Level   P34   Screen   4.3 " Color TFT touch screen   Language   English and other 8 languages   Input interface   Touch screen Numeric& Alphanumeric keyboard & keypad   V Set   Openclose system   Open system/close system   V Set   Openclose system   Openclose system   Openclose system   V Set   Openclose system   Openclose system   Openclose system   V Set   Openclose system   Openclose system   Openclose system   Openclose system   V Set   Openclose system   Ope	Physical Parameters	
Dockable Door manual CPU Double CPU Double CPU Pressure sensor Up & down pressure sensors Air bubble detector Apply GBT 14710-2009 transport test IP Level IP-14710-2009 transport test IP Level IP-248 Sereen 4.3 " Color TFT touch screen Language English and other 8 languages Input Interface Touch screen Numeric& Alphanumeric keyboard & keypad  V Set Open/close system Open system/dose system IV set apply to all IV sets with GB 3368 standard, with multiple brand names stored Intusion Mode Relay Mode Pas Relay Mode Ves Micro mode Intusion Mode Rate, Time, Body-weight, drip, Drug Ibrary, Ramp-up/down, Loading-dose, Sequence mode Relay Mode Ves Micro mode Intusion theory Linear peristables Rate Range 0.1-1500/n/h Rate incresement 0.1-mikh (100-39.9 mikh) 0.1-mikh (10	Weight	1.4kg
Door manual CPU Double CPU Ambulance use Apply GBIT 14710-2009 transport test PP34 Display Screen Language English and other 8 languages Input interface Touch screen Numeric& Alphanumeric keyboard & keypad Input interface Touch screen Numeric& Alphanumeric keyboard & keypad Input interface Touch screen Numeric& Alphanumeric keyboard & keypad Input interface Touch screen Numeric& Alphanumeric keyboard & keypad Input interface Infusion Prameter Infusion Mode Rate, Time, Body-weight, drip, Drug Ibrary, Ramp up/down, Loading-dose, Sequence mode Rate Ange Infusion theory Linear peristalisis Rate Range On-Infusion Or-99-98rikh) On-Infusion Or-99-98rikh On-Infusion Or-99-98rikh) On-Infusion Or-99-98rikh On-99-99-99-99-99-99-99-99-99-99-99-99-99	Handle	Standard accessory, up loaded
CPU Double CPU Pressure sensor  Up & down pressure sensors  Alr bubble detector  Up & down air bubble detectop  Ambulance use Apply GB/T 14710-2009 transport test P Level P34  Screen 4.3 * Color TFT touch screen Language Engish and other 8 languages Input interface Touch screen Numenc& Alphanumeric keyboard & keypad  V Set Open/close system Open system/dose system Open system/dose system/dose system Iffusion Parameter Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes Micro mode Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes Micro mode Infusion Mode Rate incresement O.11500m/h Rate incresement O.1160m/h Changerate during infusion Vev O.1-5m/h dajustable Botus maua/Fautomatic an mm/ k j Purge 1500m/h Selety Occlusion units mihigk/Parbaripsi Occlusion display yes Anti-bolus yes Anti-bolus Anti free flow mechanical  Alarm Alarm display audible, visible alarm with text and image Alarm volume 10 levels adjustable: Soul, 100ul, 200ul, 300ul, 450ul, 600ul, 800ul, default: Soul Sensitivity: 20ul Antimory Ders yes Information Database Database capacity more than 5000 history records! 30 tast therapies Ders yes Battery Type Rechargeable Lithium ion polymer battery Battery Ifle Changing time Shris Others Automatic keypad lock Yes nurse call optional	Dockable	yes
Pressure sensor  Air bubble detector  Air bubble detector  Air bubble detector  Apply GB/T14710-2009 transport test  IP Level IP34  Display  Sereen 4.3 * Color TFT touch screen Language English and other 8 languages Input interface Touch screen Numeric& Alphanumeric keyboard & keypad  IV Set  Open/close system Open system/close system  IV Set apply to all IV sets with GB 8368 standard, with multiple brand names stored  Infusion Parameter  Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes  Infusion theory Linear peristalsis Rate Range 0,1150m/h Rate incresement 0,01m/h(100-999.9m/h) 1ml/h(1000-1500m/h)  Changerate during infusion  KVO 0,1-5m/h adjustable  Boltus maual/automatic sn rm/kj  Purge 1500m/h Sariety  Occlusion display yes Anti-bolus yes  Air bubble detection Alexandra with text and image Alarm volume 10 levels adjustable: 50ut,100ut,200ut,300ut,45out,60out,80out, default: 50ut Sensitivity; 20uf And tree flow mechanical  Alarm volume 10 levels adjustable: 50ut,100ut,200ut,300ut,45out,60out,80out, default: 50ut Sensitivity; 20uf And rife eflow mechanical  Alarm volume 10 levels adjustable: 50ut,100ut,200ut,300ut,45out,60out,80out, default: 50ut Sensitivity; 20uf And rife eflow mechanical  Alarm volume 10 levels adjustable: 50ut,100ut,200ut,300ut,45out,60out,80out, default: 50ut Sensitivity; 20uf And rife eflow mechanical  Alarm volume 10 levels adjustable: 50ut,100ut,200ut,300ut,45out,60out,80out, default: 50ut Sensitivity; 20uf And rife eflow mechanical  Alarm volume 2 detable, no less than 2000 drug information  DERS yes  Information Database  Ders yes  Information Database yes  De	Door	manual
Air bubble detector Up & down air bubble detectop Ambulance use Apply GBR 14710-2009 transport test   PLevel	СРИ	Double CPU
Ambulance use   Apply GB/T 14710-2009 transport test   P Level   P Level   P 34	Pressure sensor	Up & down pressure sensors
P Level   IP34   IP34   IP34   IP34   IP34   Screen   4.3 "Color TFT touch screen   Language   English and other 8 langages   Input interface   Touch screen Numeric& Alphanumeric keyboard & keypad   V Set   Open/close system   Open system/close system   Open sys	Air bubble detector	Up & down air bubble detectop
Screen	Ambulance use	Apply GB/T 14710-2009 transport test
Screen 4.3 "Color TFT touch screen Language English and other 8 languages Input interface Touch screen Numeric& Alphanumeric keyboard & keypad  V Set OpenVictose system Open system/dose system IV Set apply to all IV sets with GB 8368 standard, with multiple brand names stored influsion Parameter Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes Infusion theory Linear peristalais Rate Range 0.1-1500m/th Micro mode yes Infusion theory Linear peristalais Rate Range 0.1-1500m/th Rate incresement 0.01-mit/h0 0.1-99.99m/th) 1m/h/(100-1500m/th) Changerate during infusion yes NVO 0.1-5m/th adjustable Bolus maual/automatic sn rm/ k j Purge 1500m/th Safety Occlusion levels 0.2 levels, 75-900 mmHg Occlusion display yes Anti-bolus mechanical  Alarm Malarm display audible, visible alam with text and image Alarm volume 10 levels adjustable: 50ul, 100ul, 200ul, 450ul, 600ul, 800ul, default: 50ul Sensitivity: 20ul Anti-free flow mechanical  Alarm otome 10 levels adjustable: 50ul, 100ul, 200ul, 300ul, 450ul, 600ul, 800ul, default: 50ul Sensitivity: 20ul Anti-free flow more than 5000 history records! 30 last therapies DPS yes Information batabase Database capacity more than 5000 history records! 30 last therapies Drug library Editable, no less than 2000 drug information DERS Battery Type Rechargeable Lithium ion polymer battery Battery Type Rechargeable Lithium ion polymer battery Battery Type Rechargeable Lithium ion polymer battery Battery Iffe Charles Yes Information deathers	IP Level	
English and other 8 langages   Input Interface   Touch screen Numeric& Alphanumeric keyboard & keypad	Display	
Injust interface IV Set  Open/close system Open system/close system IV Set apply to all IV sets with GB 8368 standard, with multiple brand names stored Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Ralay Mode yes Micro mode yes Infusion theory Linear peristalsis Infusion theory Linear peristalsis Rate Range 0,1-1500m/th 0,1-mih/(100-999.9mi/h) 0,1-mih/(100-999.9mi/h) 1,1-mih/(100-999.9mi/h) 1,1-mih/(100-999.9mi/h) 1,1-mih/(100-999.9mi/h) 2,1-mih/(100-999.9mi/h) 3,1-mih/(100-999.9mi/h) 3,1-mih/(100-999.9mi/h) 3,1-mih/(100-999.9mi/h) 3,1-mih/(100-999.9mi/h) 3,1-mih/(100-999.9mi/h) 3,1-mih/(100-999.9mi/h) 3,1-mih/(100-1999.9mi/h) 3,1-mi	Screen	4.3 " Color TFT touch screen
Input interface Touch screen Numeric& Alphanumeric keyboard & keypad  IV Set OpenvClose system Open system/close system  IV Set apply to all IV sets with GB 8368 standard, with multiple brand names stored  Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes  Micro mode yes  Infusion theory Linear peristalsis  Rate Range 0.1-1500m/lh  Rate incresement 0.01ml/h(0.01-99.99ml/h) 1ml/h(1000-1500ml/h)  Changerate during infusion yes  KVO 0.1-5ml/h adjustable  Bolus maual/automatic sn rm/ k j  Purge 1500ml/h  Safety  Occlusion units mmHg/kPa/bad/psi  Occlusion teyets 12 levels, 75-900 mmHg  Occlusion teyets 12 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti-bolus yes  Anti-bolus yes  Alarm display audible, visible alarm with text and image  Alarm olume 10 levels adjustable  Dres information Database  Database capacity more than 5000 history records! 30 last therapies  Dres information Database  Database capacity more than 5000 history records! 30 last therapies  Dres information Database  Database capacity more than 5000 history records! 30 last therapies  Dres information Database  Database capacity more than 5000 history records! 30 last therapies  Dres Safetry  Battery Type Rechargeable Lithium ion polymer battery  Battery Type  Battery Type  Safetry Ses Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time 5 hrs  Others  Automatic keypad lock Yes  nurse call optional	Language	English and other 8 langages
V Set		Touch screen Numeric& Alphanumeric keyboard & keypad
IV Set infusion Parameter Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes Micro mode yes Infusion theory Linear peristalsis Rate Range 0.1-1500ml/h Rate incresement 0.01ml/h(0.01-99.99ml/h) 0.1ml/h(1000-1500ml/h) Rate incresement 0.01ml/h(0.01-99.99ml/h) 1.1ml/h(1000-1500ml/h) Rate incresement 0.1-5ml/h adjustable Bolus maual/automatic sn rm/kj Purge 1500ml/h Safety Occlusion levels 12 levels, 75-900 mmHg Occlusion display yes Air bubble detection 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow mechanical  Alarm Alarm display audible, visible alarm with text and image Alarm volume 10 levels adjustable reminder yes DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies DERS yes Battery Battery Type Rechargeable Lithium ion polymer battery Battery Type Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h Charging time 55 hrs Gutes automatic keypad lock Yes nurse call optional	•	
IV Set infusion Parameter Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes Micro mode yes Infusion theory Linear peristalsis Rate Range 0.1-1500ml/h Rate incresement 0.01ml/h(0.01-99.99ml/h) 0.1ml/h(1000-1500ml/h) Rate incresement 0.01ml/h(0.01-99.99ml/h) 1.1ml/h(1000-1500ml/h) Rate incresement 0.1-5ml/h adjustable Bolus maual/automatic sn rm/kj Purge 1500ml/h Safety Occlusion levels 12 levels, 75-900 mmHg Occlusion display yes Air bubble detection 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow mechanical  Alarm Alarm display audible, visible alarm with text and image Alarm volume 10 levels adjustable reminder yes DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies DERS yes Battery Battery Type Rechargeable Lithium ion polymer battery Battery Type Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h Charging time 55 hrs Gutes automatic keypad lock Yes nurse call optional	Open/close system	Open system/close system
Infusion Parameter Infusion Mode Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode Relay Mode yes Infusion theory Linear peristalsis Rate Range 0.1-1500ml/h 0.1ml/h(100-99.9ml/h) 0.1ml/h(100-99.9ml/h) 0.1ml/h(100-99.9ml/h) 1.ml/h(100-99.9ml/h) 0.1ml/h(100-99.9ml/h) 0.1ml/h(100-99.9ml/h) 0.1ml/h(100-99.9ml/h) 0.1ml/h(100-99.9ml/h) 0.1ml/h(100-1500ml/h)  Changerate during infusion VO 0.1-5ml/h adjustable Bolus maual/automatic sn rm/kj  Purge 1500ml/h Safety Occlusion units mmHg/kPa/bar/psi Occlusion levels 12 levels, 75-900 mmHg Occlusion display yes Anti-bolus 12 levels, 75-900 mmHg Occlusion display yes Anti-bolus Anti free flow mechanical  Alarm Alarm display Alarm volume 10 levels adjustable: 50ul,10ul,20ul,30ul,45ul,60ul,80ul, default: 50ul Sensitivity: 20ul mechanical  Alarm volume 10 levels adjustable reminder yes DPS yes Information Database DPS prug library Editable, no less than 2000 drug information DERS Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Rechargeable Lithium ion polymer battery Battery Type Battery Type Rechargeable Lithium ion polymer battery		
Relay Mode  Micro mode  Micro mode  Jes  Infusion theory  Linear peristalsis  Rate Range  0.1-1500ml/h  Rate incresement  0.0/ml/h(0.01-99.99ml/h) 0.1ml/h(100-999.9ml/h) 1 ml/h(100-1500ml/h)  Changerate during infusion  yes  KVO  0.1-5ml/h adjustable  Bolus  maual/automatic sn m/ k j  Purge  1500ml/h  Safety  Occlusion units  mmHg/kPa/bat/psi  Occlusion levels  12 levels, 75-900 mmHg  Occlusion display  yes  Anti-bolus  yes  Anti-bolus  Anti bubble detection  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul, default: 50ul Sensitivity: 20ul Anti free flow  Alarm  Alarm  Alarm display  audible, visible alarm with text and image  Alarm volume  10 levels adjustable  reminder  yes  DPS  yes  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  yes  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  25 hrs  Others  Automatic keypad lock  Yes  nurse call  optional		appy to an it does man do dood dantada, man manpio bland named deloca
Relay Mode  Micro mode  Micro mode  Jes  Infusion theory  Linear peristalsis  Rate Range  0.1-1500ml/h  Rate incresement  0.0/ml/h(0.01-99.99ml/h) 0.1ml/h(100-999.9ml/h) 1 ml/h(100-1500ml/h)  Changerate during infusion  yes  KVO  0.1-5ml/h adjustable  Bolus  maual/automatic sn m/ k j  Purge  1500ml/h  Safety  Occlusion units  mmHg/kPa/bat/psi  Occlusion levels  12 levels, 75-900 mmHg  Occlusion display  yes  Anti-bolus  yes  Anti-bolus  Anti bubble detection  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul, default: 50ul Sensitivity: 20ul Anti free flow  Alarm  Alarm  Alarm display  audible, visible alarm with text and image  Alarm volume  10 levels adjustable  reminder  yes  DPS  yes  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  yes  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  25 hrs  Others  Automatic keypad lock  Yes  nurse call  optional	Infusion Mode	Rate, Time, Body-weight, drip, Drug library, Ramp up/down, Loading-dose, Sequence mode
Micro mode  Jes  Infusion theory  Linear peristalsis  Rate Range  0.1-1500ml/h  Rate incresement  0.01ml/h(0.01-99.99ml/h) 0.1ml/h(100-999.9ml/h) 0.1ml/h(100-999.9ml/h) 0.1-5ml/h adjustable  Bolus  maual/automatic sn mr/kj  Purge  1500ml/h  Safety  Occlusion units  mml+g/kPa/ba/rpsi  Occlusion levels  12 levels, 75-900 mml+g  Occlusion display  yes  Anti-bolus  yes  Alf bubble detection  A levels adjustable: 50ul,10uul,20uul,30uul,45uul,60uul,80uul, default: 50ul Sensitivity: 20ul  Anti free flow  mechanical  Alarm  Alarm display  Alarm volume  10 levels adjustable  reminder  yes  DPS  yes  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Edikable, no less than 2000 drug information  DERS  yes  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  5 hrs  Others  Automatic keypad lock  Yes  nurse call  optional		
Infusion theory  Linear peristalsis  Rate Range  0.1-1500ml/h  Rate incresement  0.01ml/h(0.01-99.9ml/h) 0.1ml/h(100-99.9ml/h) 10.1ml/h(1000-1500ml/h)  Changerate during infusion  yes  KVO  0.1-5ml/h adjustable  Bolus  maual/automatic sn rm/kj  Purge  1500ml/h  Safety  Occlusion units  mmHg/kPa/bar/psi  Occlusion levels  12 levels, 75-900 mmHg  Occlusion display  yes  Anti-bolus  Air bubble detection  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul  Anti free flow  mechanical  Alarm  Alarm display  Alarm volume  10 levels adjustable  reminder  yes  Database capacity  more than 5000 history records!  30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  yes  Battery Type  Rechargeable Lithium ion polymer battery  Battery Ifle  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  45 hrs  Others  Automatic keypad lock  Yes  nurse call  optional	•	1
Rate Range  0.1-1500ml/h  0.01ml/h(0.01-99.99ml/h) 0.0.1ml/h(100-999.9ml/h) 0.0.1ml/h(1000-1500ml/h) 0.0.1ml/h(100-999.9ml/h) 0.0.1ml/h(1000-1500ml/h) 0.0.1ml/h(1000-1500ml/h) 0.0.1ml/h(1000-1500ml/h) 0.0.1ml/h(100-999.9ml/h) 0.0.1ml/h(1000-1500ml/h) 0.0.1ml/h(1000-1500m	Infusion theory	<u> </u>
Rate incresement  0.01ml/h(0.01-99.9ml/h) 1ml/h(1000-1500ml/h)  0.1ml/h(100-999.9ml/h) 1ml/h(1000-1500ml/h)  Ves  KVO  0.1-5ml/h adjustable  Bolus  maual/automatic sn rm/ k j  Purge  1500ml/h  Safety  Occlusion units  mmHg/kPa/bar/psi  Occlusion levels  12 levels, 75-900 mmHg  Occlusion display  yes  Anti-bolus  yes  Air buble detection  7 levels adjustable: 50ul,10ul,20ul,30ul,45ul,60ul,80ul, default: 50ul Sensitivity: 20ul  Anti free flow  mechanical  Alarm  Alarm  Alarm adisplay  Alarm volume  10 levels adjustable  reminder  yes  DPS  yes  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  yes  Battery Type  Rechargeable Lithium ion polymer battery  Battery Type  Battery Type  Rechargeable Lithium ion polymer battery  Battery Iife  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  √es  Pres  nurse call  optional	·	· · · · · · · · · · · · · · · · · · ·
Rate incresement  O.1ml/h(100-999.9ml/h) 1ml/h(1000-1500ml/h)  Ves  KVO  O.1-5ml/h adjustable  Bolus  maual/automatic sn rm/kj  Purge  1500ml/h  Safety  Occlusion units  mmHg/kPa/bar/psi  Occlusion levels  12 levels, 75-900 mmHg  Ves  Anti-bolus  Anti-bolus  Air bubble detection  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul  Anti free flow  mechanical  Alarm  Alarm display  Alarm volume  10 levels adjustable  reminder  yes  DPS  ups  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  yes  Battery  Battery Type  Rechargeable Lithium ion polymer battery  Battery Ifle  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  5 hrs  Others  Automatic keypad lock  Yes  inght mode  Yes  optional		0.01ml/h(0.01-99.99ml/h)
KVO       0.1-5ml/h adjustable         Bolus       maual/automatic sn rm/ k j         Purge       1500ml/h         Safety       Ccclusion units         Occlusion units       mmHg/kPa/bai/psi         Occlusion display       yes         Anti-bolus       yes         Air bubble detection       7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul         Anti free flow       mechanical         Alarm       Alarm volume         I ol levels adjustable       yes         DPS       yes         Information Database       yes         Database capacity       more than 5000 history records! 30 last therapies         Drug library       Editable, no less than 2000 drug information         DERS       yes         Battery       Battery         Battery Type       Rechargeable Lithium ion polymer battery         Battery Iife       Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h         Charging time       ≤ hrs         Others       Automatic keypad lock       Yes         nurse call       optional	Rate incresement	· · · · · · · · · · · · · · · · · · ·
Bolus maual/automatic sn rm/ k j  Purge 1500ml/h  Safety  Occlusion units mmHg/kPa/bar/psi  Occlusion levels 12 levels, 75-900 mmHg  Occlusion display yes  Anti-bolus yes  Air bubble detection 7 levels adjustable: 50ul,10oul,20oul,30oul,45oul,60oul,80oul, default: 50ul Sensitivity: 20ul  Anti free flow mechanical  Alarm  Alarm audible, visible alarm with text and image  Alarm volume 10 levels adjustable  reminder yes  DPS yes  Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery United Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time	Changerate during infusion	yes
Purge 1500ml/h  Safety  Occlusion units mmHg/kPa/bar/psi  Occlusion levels 12 levels, 75-900 mmHg  Occlusion display yes  Anti-bolus yes  Air bubble detection 7 levels adjustable: 50ul,10oul,20oul,30oul,45oul,60oul,80oul, default: 50ul Sensitivity: 20ul Anti free flow mechanical  Alarm  Alarm display audible, visible alarm with text and image  Alarm volume 10 levels adjustable  reminder yes  DPS yes  Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery Iife Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time ≤5 hrs  Outline on the standard optional  Yes  nurse call optional	KVO	0.1-5ml/h adjustable
Safety Occlusion units  mmHg/kPa/bar/psi Occlusion levels 12 levels, 75-900 mmHg Occlusion display yes Anti-bolus yes Air bubble detection 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow mechanical  Alarm Alarm display audible, visible alarm with text and image Alarm volume 10 levels adjustable reminder yes DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies Drug library Editable, no less than 2000 drug information DERS yes Battery Battery Type Rechargeable Lithium ion polymer battery Battery Type Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h Charging time 5 hrs Others Automatic keypad lock Yes nurse call optional	Bolus	maual/automatic sn rm/ k j
Occlusion units     mmHg/kPa/bar/psi       Occlusion levels     12 levels, 75-900 mmHg       Occlusion display     yes       Anti-bolus     yes       Air bubble detection     7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul       Anti free flow     mechanical       Alarm     Alarm display       Alarm odlume     10 levels adjustable       reminder     yes       DPS     yes       Information Database     yes       Database capacity     more than 5000 history records! 30 last therapies       Drug library     Editable, no less than 2000 drug information       DERS     yes       Battery     Rechargeable Lithium ion polymer battery       Battery Type     Rechargeable Lithium ion polymer battery       Battery life     Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h       Charging time     ≤5 hrs       Others       Automatic keypad lock     Yes       nurse call     optional	Purge	1500ml/h
Occlusion levels 12 levels, 75-900 mmHg Occlusion display yes Anti-bolus yes Air bubble detection 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow mechanical  Alarm Alarm display audible, visible alarm with text and image Alarm volume 10 levels adjustable reminder yes DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies Drug library Editable, no less than 2000 drug information DERS yes Battery Battery Type Rechargeable Lithium ion polymer battery Battery Iife Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h Charging time		
Occlusion display Anti-bolus Anti-bolus Ari bubble detection Anti free flow  Mechanical  Alarm Alarm display Alarm volume To levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow  Alarm olisplay Alarm volume Alarm volume 10 levels adjustable  reminder yes  DPS yes  Information Database Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS  Battery Battery Type Rechargeable Lithium ion polymer battery  Battery Iife Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  \$\frac{5}{25}\$ hrs  Others  Automatic keypad lock Yes  nurse call optional	Safety	
Anti-bolus  Air bubble detection  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow  mechanical  Alarm  Alarm display  Audible, visible alarm with text and image  Alarm volume  10 levels adjustable  reminder  yes  DPS  yes  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  Battery  Battery Type  Rechargeable Lithium ion polymer battery  Battery Iife  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  55 hrs  Others  Automatic keypad lock  Yes  nurse call  Optional		mmHg/kPa/bar/psi
Air bubble detection  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul Anti free flow  Rechanical  Alarm  Alarm olisplay  Alarm volume  10 levels adjustable  reminder  yes  DPS  yes  Information Database  Database capacity  more than 5000 history records! 30 last therapies  Drug library  Editable, no less than 2000 drug information  DERS  Battery  Battery Type  Rechargeable Lithium ion polymer battery  Battery Iffe  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  5 hrs  Others  Automatic keypad lock  Yes  nurse call  Optional	Occlusion units	
Anti free flow mechanical  Alarm  Alarm display audible, visible alarm with text and image  Alarm volume 10 levels adjustable reminder yes  DPS yes  Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time \$5 hrs  Others  Automatic keypad lock Yes  night mode Yes  nurse call optional	Occlusion units Occlusion levels	12 levels, 75-900 mmHg
Alarm Alarm display audible, visible alarm with text and image Alarm volume 10 levels adjustable reminder yes DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies Drug library Editable, no less than 2000 drug information DERS yes Battery Battery Type Rechargeable Lithium ion polymer battery Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h Charging time	Occlusion units Occlusion levels Occlusion display	12 levels, 75-900 mmHg yes
Alarm display audible, visible alarm with text and image  Alarm volume 10 levels adjustable reminder yes  DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  \$\sigma\$ hrs  Others  Automatic keypad lock Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus	12 levels, 75-900 mmHg yes yes
Alarm display audible, visible alarm with text and image  Alarm volume 10 levels adjustable reminder yes  DPS yes Information Database Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time  \$\sigma\$ hrs  Others  Automatic keypad lock Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul
Alarm volume 10 levels adjustable  reminder yes  DPS yes  Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery Life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul
reminder yes  DPS yes  Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul
DPS yes  Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow Alarm Alarm display	12 levels, 75-900 mmHg yes yes 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical audible, visible alarm with text and image
Information Database  Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow Alarm Alarm display Alarm volume	12 levels, 75-900 mmHg yes yes 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical audible, visible alarm with text and image
Database capacity more than 5000 history records! 30 last therapies  Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time ≤5 hrs  Others  Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder	12 levels, 75-900 mmHg yes yes 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical audible, visible alarm with text and image 10 levels adjustable
Drug library Editable, no less than 2000 drug information  DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS	12 levels, 75-900 mmHg yes yes 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical audible, visible alarm with text and image 10 levels adjustable yes
DERS yes  Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time ≤5 hrs  Others  Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database	12 levels, 75-900 mmHg yes yes 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical audible, visible alarm with text and image 10 levels adjustable yes yes
Battery  Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time ≤5 hrs  Others  Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity	12 levels, 75-900 mmHg yes yes 7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical audible, visible alarm with text and image 10 levels adjustable yes yes more than 5000 history records! 30 last therapies
Battery Type Rechargeable Lithium ion polymer battery  Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  Charging time ≤5 hrs  Others  Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information
Battery life Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h Charging time	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information
Charging time s5 hrs  Others  Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information
Others Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery
Automatic keypad lock Yes night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery Battery Type Battery life	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h
night mode Yes nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery Battery Type Battery life Charging time	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h
nurse call optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery Battery Type Battery life Charging time	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h
l '	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery Battery Type Battery life Charging time Others Automatic keypad lock	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  55 hrs
	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery Battery Type Battery life Charging time Others Automatic keypad lock	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  \$\frac{1}{2}\$ hrs
Wireless LAN, IrDA optional	Occlusion units Occlusion levels Occlusion display Anti-bolus Air bubble detection Anti free flow  Alarm Alarm display Alarm volume reminder DPS Information Database Database capacity Drug library DERS Battery Battery Type Battery life Charging time Others Automatic keypad lock night mode	12 levels, 75-900 mmHg  yes  yes  7 levels adjustable: 50ul,100ul,200ul,300ul,450ul,600ul,800ul, default: 50ul Sensitivity: 20ul mechanical  audible, visible alarm with text and image  10 levels adjustable  yes  yes  more than 5000 history records! 30 last therapies  Editable, no less than 2000 drug information  yes  Rechargeable Lithium ion polymer battery  Standard: >4.5 hours @ 25ml/h Optional: >9 hours @ 25ml/h  ≤5 hrs

