PROVIEW 12

Patient Monitor for intensive care

High performance for high acuity patient monitoring

PROVIEW 12 adopts a full capacitive touchscreen design, concise and artistic appearance. It is equipped with the accessory box which is more convenient to store the accessories. It provides ECG, SpO2, NIBP, Respiration, dual channel body temperature, IBP, C.O., CO2 performances with maximized user convenience. It displays 7 waveforms and vital signs clearly regardless of viewing angle. Also it integrates the Drop Monitor (DM), which can realize the monitoring of infusion drip rate, alarm of infusion completion and stop functions. This patient monitor from medical ECONET impresses with its performance, quality, and versatility. PROVIEW 12 provides exemplary monitoring with economic rationality. It is a fast, accurate and advanced patient monitor for high acuity. Its innovative technology is the ideal basis for obtaining detailed data and enable first-class visualizations.

PROVIEW 12 not only meets the requirements of Intensive Care Units, Emergency Rooms, Recovery Units, Sub-acute Units, and General Ward, but also greatly improve the nurses and doctors' efficiency.

Features and Benefits

- 12.1" color TFT full touchscreen display
- Up to 7 waveforms
- Standard features include ECG, SpO2, NIBP, respiration, dual channel body temperature, IBP, C.O., ETCO2 performances
- 27 kinds of Arrhythmia analysis
- Drip monitor (option)
- Early Warning Scores (EWS)
- Glasgrow Coma Scale (GCS)
- Oxygen cardio-respirogram (oxyCRG)
- Backlight brightness auto adjustment
- ECG leads auto switching
- 4 hours battery capacity / up to 8 hours (option)
- Support keyboard, mouse and barcode scanner
- Wifi 2.4/5G (option) (802.11a/b/g/n)
- Defibrillator synchronization (option)
- Extensive data storage capability for trend data, alarms, events, NIBP measurements and up to 72 hours of full disclosure
- User-centered accessory storage and various mounting solution
- Thermal array Recorder
- Comfortable viewing angle
- Central Monitoring Station for up to 66 monitors (option)

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The Main Functions of PROVIEW 12

It is multi-parameter patient monitor providing ECG, SpO_2, NIBP, Respiration, dual channel body temperature, IBP, C.O., CO_2 performances with maximized user convenience. It can be applied in various use.

Early Warning System (EWS)
helps clinicians track signs of patient deterioration.
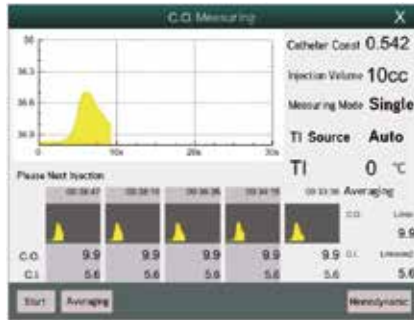
Cardiac Output (C.O.)
stores 5 results and the user can select the desired measurement to average.

Glasgow Coma Scale (GCS)
records the conciousness level of a patient at both initial and subsequent assessments.

Drip Monitor (DM)
monitors the drip rate all the time during the infusion.

End Tidal CO_2 (ETCO$_2$)
monitors exhaled breath to determine CO_2 levels numerically and by waveform

Invasive Blood Pressure (IBP)
allows accurate assessment of blood pressure in certain patients not suitable for non-invasive blood pressure monitoring.

Sophisticated Design Based On The User

- Ergonomic appearance is convenient for the users to operate and observe
- Portable design with concealed handle
- Highly efficient capacitive touch screen with HD visual experience
- Operate with gestures, easy and simple
- Integrated full front panal without gaps, easy to clean
- Equipped with the accessory box, the medical staff will be more convenient to store and take out the accessories
- Wide range of mounting solution fit for various needs

Accessory Storage

Easy to clean

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Specifications

Physical Dimensions

Size:	175(W) x 320(H) x 262(D) mm
Weight:	Approx. 4 kg

Display

Type:	12.1" color TFT full touchscreen
Resolution:	800 x 600 pixels
Waveforms:	Up to 7 (ECG, SpO2, Resp., CO2, IBP)

ECG

Lead set:	3-lead: I, II, III
	5-lead: I, II, III, aVR, aVL, aVF, Vx
	6-lead: I, II, III, aVR, aVL, aVF, Va, Vb
	12-lead: I, II, III, aVR, aVL, aVF, V1 ~ V6
	Auto: Identify leads automatically
Sweep speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth (-3 dB):	Monitor mode: 0.5 Hz to 40 Hz
	Operation mode: 1 Hz to 25 Hz
Input Inpedence:	≥ 5.0 MΩ
Input signal range:	-10.0mV to +10.0mV
Electrode Offset Potential:	± 500 mV d.c.
System noise:	≤ 30 μVpp (RTI)
Recovery time after Defib.:	<10 s
CMRR:	Monitor / Operation mode ≥ 110 dB
	Diagnostic mode ≥ 100dB
ST analysis:	Range: -2.0 mV to +2.0 mV
	Accuracy: ±0.02 mV or ±10%,
	whichever is greater
	(-0.8 mV to +0.8 mV)
	Resolution: 0.01 mV
Arr analysis:	Yes, 27 classifications

Heart Rate

Range:	Adu: 10 bpm to 300 bpm
	Ped/Neo: 10 bpm to 350 bpm
Resolution:	1 bpm
Accuracy:	±1 bpm or ± 1%, whichever is greater

Respiration

Range:	0 rpm to 150 rpm
Resolution:	1 rpm
Accuracy:	± 2 rpm or ± 2%, whichever is greater
Lead:	I (RA-LA) or II (RA-LL)
Delay of Apnea alarm:	Adjustable dealay time 10 s to 60 s

SpO2

Range:	0% to 100%
Accuracy (clinical):	70% to 100% ≤ 3% (SpO2 probe included)
	0% to 69% (unspecified)

- **PR**

Range:	25 bpm to 300 bpm
Resolution:	1 bpm
Accuracy:	± 3 bpm

- **PI**

Range:	0.05% ~ 20.00%
Resolution:	0.01%
Accuracy:	± 0.1% or ± 10% of reading,
	whichever is greater

- **RESP (from pleth)**

Range:	0 rpm to 90 rpm
Resolution:	1rpm
Accuracy:	± 2 rpm

Temperature (option)

Parameter:	T1, T2, TD
Probe:	YSI400 series probe (2252Ω at 25°C)
Range:	0.0°C to 50.0°C (32°F to 122°F)
Resolution:	± 0.1°C or ± 1°F
Accuracy:	± 0.1°C or ± 1°F (exclusive of Probe)

NIBP

Method:	Automatic oscillometry	
Operate mode:	Manual, Auto, STAT	
Intervals for Auto	1, 2, 2.5, 3, 5, 10, 15, 20, 30 min	
Measurment:	1, 1.5, 2, 4, 8 hours	
STAT mode cycle time:	5 minutes	
Systolic Range:	Adult	30 to 270 mmHg
	Pediatric	30 to 235 mmHg
	Neonatal	30 to 135 mmHg
DIastolic Range:	Adult	10 to 220 mmHg
	Pediatric	10 to 220 mmHg
	Neonatal	10 to 110 mmHg
Mean Range:	Adult	20 to 235 mmHg
	Pediatric	20 to 235 mmHg
	Neonatal	20 to 125 mmHg
Accuracy:	Static	±3 mmHg
	Clinic (mean error)	±5 mmHg
	Standard Deviation	≤8 mmHg
PR range:	40 bpm to 240 bpm	
Cuff presure range:	0 to 300 mmHg	
Measurement time:	20 s to 45 s (typical value)	
Inflation time for cuff:	Less than 40s (standard adult cuff)	

IBP (option)

Sensitive of transducer:	5uV/V/ mmHg, ± 2%
Impedance of transducer:	300 Ω to 3000 Ω
Range:	50 mmHg to 360 mmHg
Accuracy:	± 2 mmHg or ± 2% of the reading,
	whichever is the greater (exclusive of transducer)
Resolution:	1 mmHg
Unit:	mmHg, kPa, cmH2O
Transducer site:	ART, CVP, ICP, PA, Ao, UAP, BAP, FAP, LAP, RAP,
	UVPLV, PAWP
	additionally, P1&P2 are arbeitrary si tes

- **PPV**

Range:	0% to 50%
Resolution:	1.00%

- **PR**

Range:	30 bpm to 300 bpm	
Resolution:	1 bpm	
Accuracy:	± 1% or ± 1 bpm, whichever is greater	
Software overpressure	Adult	297±3 mmHg
protection:	Pediatric	252±3 mmHg
	Neonatal	147±3 mmHg

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Specifications

MicroFlow CO₂ (option)

Range:	0% to 25% (0 mmHg to 190 mmHg)
Accuracy:	± 0.43% (+8% of reading)
Resolution:	0.1% or 1 mmHg
Unit:	%, mmHg, kPA
Preheating time:	< 10 s (Report concentration and achieve highest accuracy)
Rise time:	< 3 s (including delay time and rise time)
Samlple flow rate:	50 ± 10 mL/min
awRR range:	0 rpm to 150 rpm
awRR accuracy:	± 1 rpm

Mainstram CO₂ (option)

Range:	0% to 25% (0 mmHg to 190 mmHg)
Accuracy:	± 0.43% (+8% of reading)
Resolution:	0.1% or 1 mmHg
Unit:	%, mmHg, kPa
Preheating time:	< 10s
Rise time:	< 90 ms
awRR range:	0 rpm to 150 rpm
awRR accuracy:	± 1 rpm

C.O. (option)

Range:	C.O.:	0.1 L/min to 20 L/min
	TB:	23.00 °C to 43.00 °C
	TI:	-0.1 °C to 27.0 °C
Resolution:	C.O.:	0.1 L/min
	TB:	0.01 °C
	TI:	0.1 °C
Accuracy	C.O.:	± 5% or ± 0.1 L/min, whichever is greater
	TB:	± 0.1 °C
	TI:	± 0.1 °C

Drip Monitor (DM, Option)

Range:	5 to 200 Drops/min
Accuracy:	± 2 digit or ± 2% (whichever is greater)
Unit:	Drops/min, mL/h can be converted (1mL of conventional tube = 20 drops)
Liquid stop function:	Alarm and stop liquid when infusion is completed. Alarm when drip rate is abnormal.

Interfacing

Connectors:	1AC power connector
	1 RJ45 network connector
	2 USB connector
	1VGA output connector (option)
	1 multifunctional output connector (nurse call, Defib.Sync. and analog aouput)
Wifi (option):	2.5G, 5G (protocol IEEE802.11a/b/g/n)
Barcode Scanner:	Support 1D barcord (USB connector)
Keyboard & Mouse	Support

Data Storage

Trend data:	180 hours, minimum resolution is 1 min 6 hours, minimum resoulution is 5 s
Alarm events:	3000 groups and associated waveform
Arr. events:	3000 groups and associated waveform
NIBP:	2400 groups
Waveforms:	72 hours

Battery

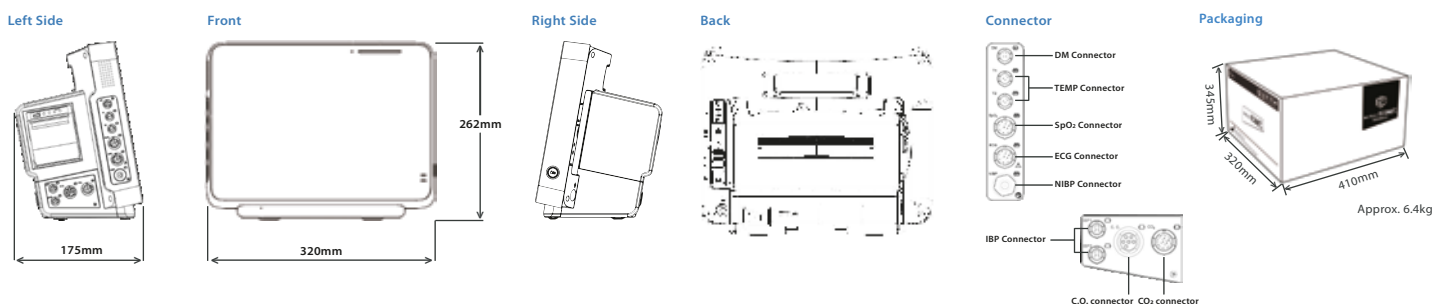|	
Type:	Rechargeable Li-ion Battery (11.1 V, 2.5 Ah / 5.0 Ah)
Run time:	240 min (2.5 Ah), 480 min (5.0 Ah) (1 new and fully charged battery at 25℃ temperature, connecting SpO₂ sensor & NIBP work on AUTO mode for 30 minutes interval)
Recharging time:	Less than 6 hrs (2.5 Ah), 12 hrs (5.0 Ah)

Power

Input voltage:	100 to 240 VAC (±10%), 50/60Hz
Input power:	100VA

Standard accessory

5-lead ECG patient cable	1 ea
Disposable Electrodes	10 ea
NIBP tubing, 3 m long	1 ea
Adult cuff, reusable	1 ea
SpO₂ sensor extension cable (2m)	1 ea
SpO₂ adult sensor, reusable	1 ea
Termal printer	1 ea
Battery (2.5 Ah, 4hours)	1 ea

*Check the accessory list for more details.

Left Side	Front	Right Side	Back	Connector	Packaging

175mm · 320mm · 262mm

DM Connector
TEMP Connector
SpO₂ Connector
ECG Connector
NIBP Connector
IBP Connector
C.O. connector CO₂ connector

345mm · 320mm · 410mm
Approx. 6.4kg

Distributor

*All specifications are subject to change without notice