



medical **ECDNET**  
GERMANY

# 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, SpO<sub>2</sub>, NIBP, Respiration, dual channel body temperature, IBP, C.O., CO<sub>2</sub> 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 ECDNET 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, SpO<sub>2</sub>, NIBP, respiration, dual channel body temperature, IBP, C.O., ETCO<sub>2</sub> performances
- 27 kinds of Arrhythmia analysis
- Drip monitor (option)
- Early Warning Scores (EWS)
- Glasgow 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)

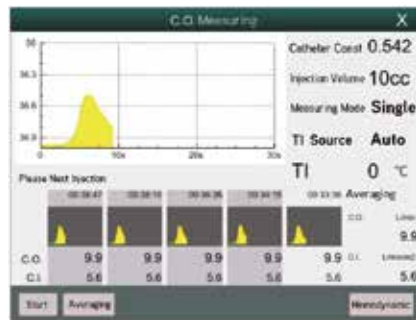
# PROVIEW 12 Patient Monitor for intensive care

## The Main Functions of PROVIEW 12

It is multi-parameter patient monitor providing ECG, SpO<sub>2</sub>, NIBP, Respiration, dual channel body temperature, IBP, C.O., CO<sub>2</sub> 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 consciousness 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<sub>2</sub> (ETCO<sub>2</sub>)**  
monitors exhaled breath to determine CO<sub>2</sub> 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 panel 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

# PROVIEW 12

Patient Monitor for intensive care

## 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, SpO <sub>2</sub> , Resp., CO <sub>2</sub> , 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 Impedence:	≥ 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:	Adult: 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 delay time 10 s to 60 s

### SpO<sub>2</sub>

Range:	0% to 100%
Accuracy (clinical):	70% to 100% ≤ 3% (SpO <sub>2</sub> 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 pressure 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, cmH <sub>2</sub> O
Transducer site:	ART, CVP, ICP, PA, Ao, UAP, BAP, FAP, LAP, RAP, UVPLV, PAWP additionally, P1&P2 are arbitrary 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 CO<sub>2</sub> (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)
Sample flow rate:	50 ± 10 mL/min
awRR range:	0 rpm to 150 rpm
awRR accuracy:	± 1 rpm

### Mainstream CO<sub>2</sub> (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 aoupot )
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 resolution 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°C temperature, connecting SpO <sub>2</sub> sensor & NIBP work on AUTO mode for 30 minutes interval)
Recharging time:	Less than 6 hrs (2.5 Ah), 12 hrs (5.0 Ah)

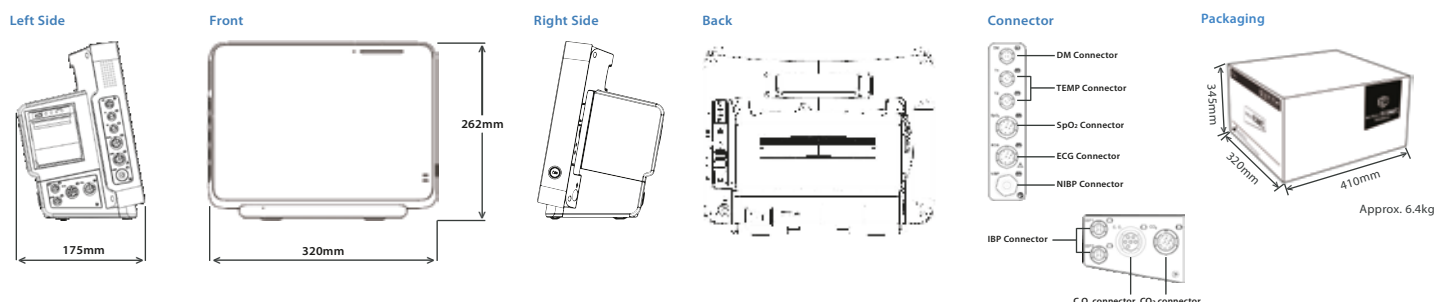
### Power

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
SpO <sub>2</sub> sensor extension cable (2m)	1 ea
SpO <sub>2</sub> adult sensor, reusable	1 ea
Thermal printer	1 ea
Battery (2.5 Ah, 4hours)	1 ea

\*Check the accessory list for more details.



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