Fourier E40

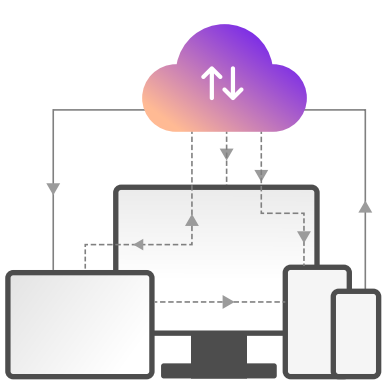
Multi-Para Patient Monitor

sales@fouriermed.com
www.fouriermed.com
1800-102-2380

Powered by HorizonView™

Seamless Connectivity to Patient Vitals

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Elementum pharetra facilisis vel morbi. Lacinia integer proin id pulvinar potenti posuere risus.



HorizonView

Patient Data at your Convenience

Leverage Fourier E40's remote monitoring capabilities powered by **HorizonView** . Ensure seamless patient monitoring even when you are at your desk, home, conference or while you commute.

HorizonView allows you to monitor the vitals and waveforms of your patient. It helps you get real-time alarms with a comprehensive suite for Fourier E40 patient monitor that you can access from any Windows, Android or iOS device.




Truly Wireless

HorizonView is a cloud-based remote monitoring solution allowing you to monitor patient vitals with simple internet connectivity. The data is secured with end-to-end encryption on HL7 protocols, and is hosted on HIPAA compliant data centers. It integrates with your hospital setup without the hassles of cabling, local servers or infrastructure. You just need internet to get started. You incur absolutely zero capital costs or any hidden operational costs except internet connection cost.

No Operational cost, only internet cost

Zero Investment

No Additional Infrastructure Setup or Cabling

No local server setup

Data security with HIPAA Compliant Data Centers

Simplicity at your Fingertips

Modern UI

The clean interface of the mobile app gives a comfortable experience to the user.

Notifications

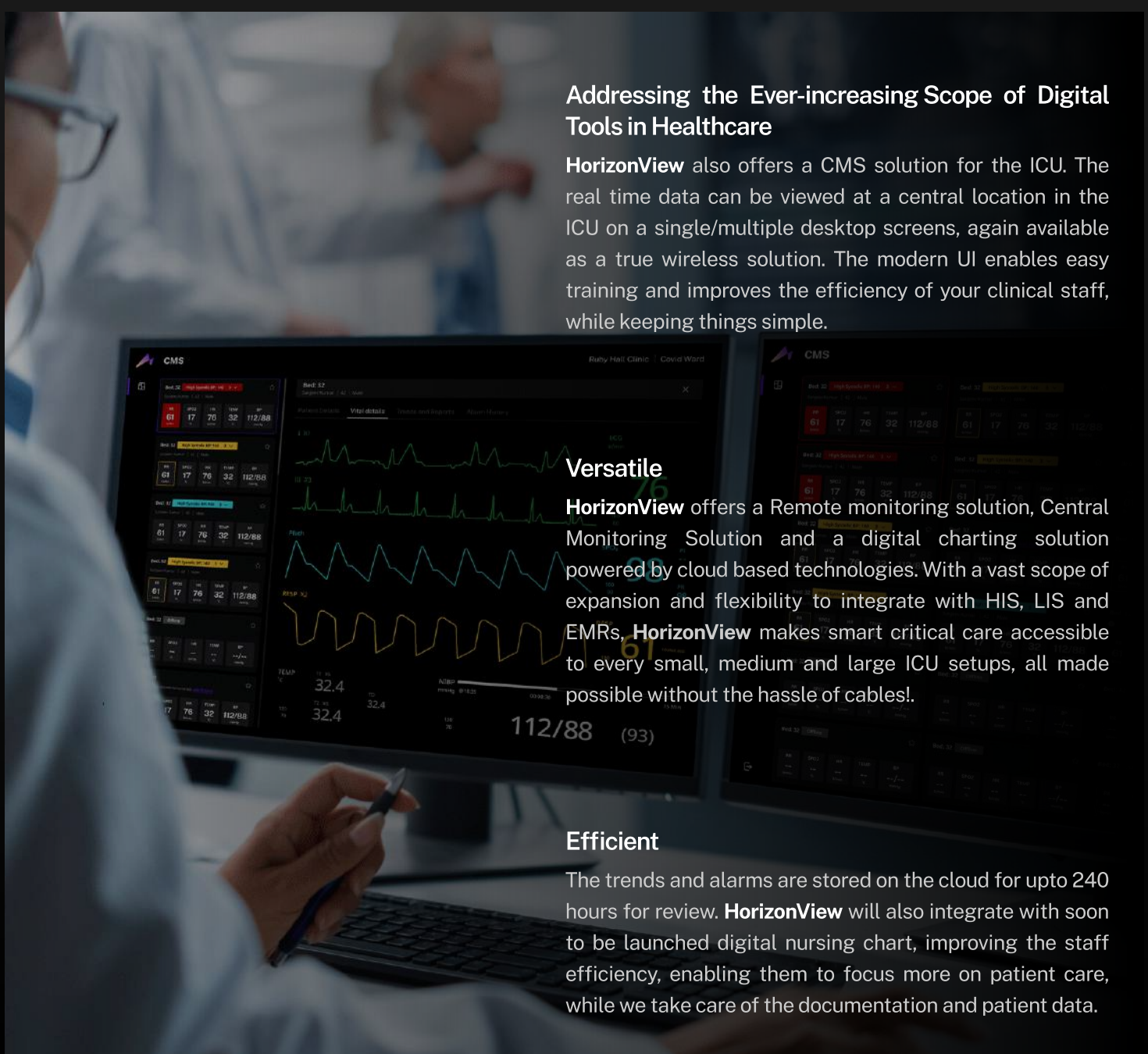
Real-time alerts about the critical status of patients on mobile devices ensure doctors to take quick decisions.

Transition between multiple wards

Managing a large patient load becomes easier with **HorizonView**. Simply switch between different wards in the same hospital at your fingertips.

Customized Parameter Alerts

The most critical parameters varies from patient to patient. **HorizonView** gives alerts as per the clinical requirement of individual patient.



Addressing the Ever-increasing Scope of Digital Tools in Healthcare

HorizonView also offers a CMS solution for the ICU. The real time data can be viewed at a central location in the ICU on a single/multiple desktop screens, again available as a true wireless solution. The modern UI enables easy training and improves the efficiency of your clinical staff, while keeping things simple.

Versatile

HorizonView offers a Remote monitoring solution, Central Monitoring Solution and a digital charting solution powered by cloud based technologies. With a vast scope of expansion and flexibility to integrate with HIS, LIS and EMRs, **HorizonView** makes smart critical care accessible to every small, medium and large ICU setups, all made possible without the hassle of cables!.

Efficient

The trends and alarms are stored on the cloud for upto 240 hours for review. **HorizonView** will also integrate with soon to be launched digital nursing chart, improving the staff efficiency, enabling them to focus more on patient care, while we take care of the documentation and patient data.

Delivering Value

Comprehensive Monitoring

3/5/12-lead ECG algorithm along with ST & arrhythmia analysis

Accurate Respiratory Rate measurement

Fast, precise and motion tolerant NIBP measurement

O_2

Low perfusion SpO_2 monitoring and Pulse Rate monitoring

Dual Temperature detection and continuous monitoring

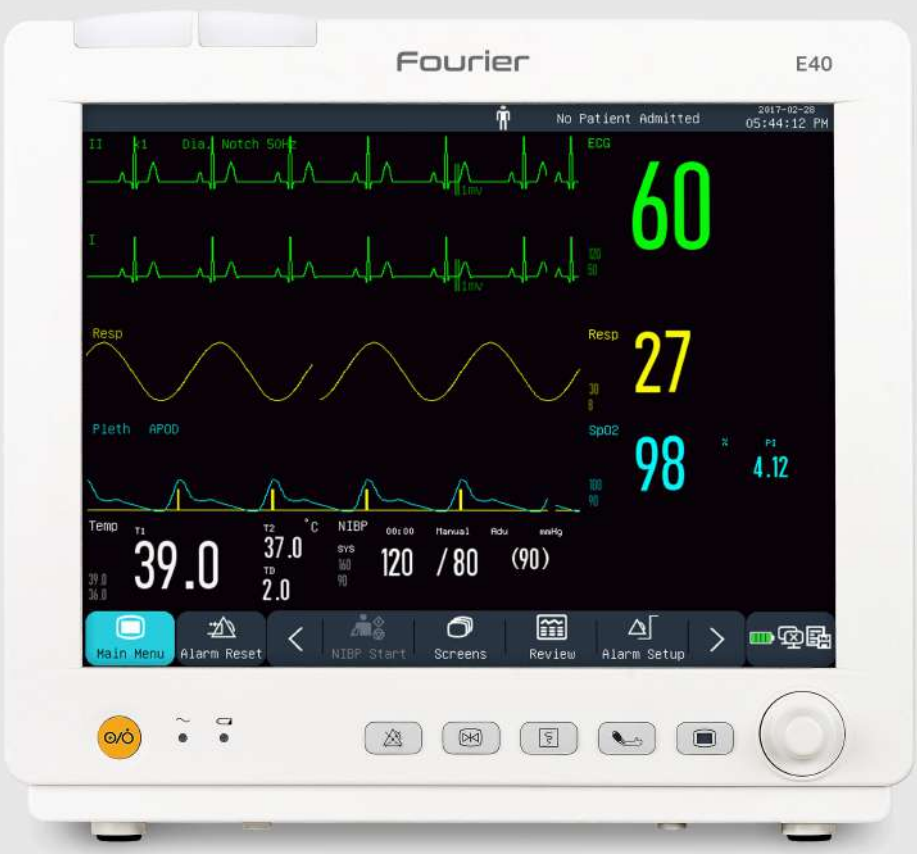
Expandable with Advanced Modules

The expandable design of Fourier E40 ensures compatibility with a wide range of parameter modules that can be pre-configured at the time of order. Advanced functional modules like IBP, EtCO (Mainstream & Sidestream) and others can be easily adapted in the patient monitor as per different clinical requirements, ensuring efficient solution to treatment for wider range of acuity.

	Nellcor	Masimo	Respironics
SpO_2	✓	✓	–
$EtCO_2$ (Mainstream and Sidestream)	–	✓	✓

Patient Care . Anytime . Anywhere.

Fourier E40 is engineered to meet your clinical needs and helps you make quick decisions to deliver efficient, high-quality patient care. Being extremely expandable, E40 is a one-stop solution for critical care monitoring of a wide range of clinical parameters.With 160 hours of data storage (both tabular & graphical), you can analyze even a prolonged patient journey and for a wide range of acuity changes. Powered by **HorizonView**, E40 ensures you stay connected with the patient status via a wireless setup, any time and any place.



12.1”

12” Touchscreen Display

The sophisticated user interface ensures quick visualization of patient data at a wide range of viewing angles and makes it readable even from a distance.

$EtCO_2$ • IBP

Advanced functional modules can be easily adapted in the extremely expandable design of Fourier E40.

Fanless Design

The fan-less design of Fourier E40 makes it suitable for night time operation and saving energy.

Advanced Calculations

Advanced algorithm ensure precise calculations of Drug Dose, Hemodynamic Values, Ventilation, Oxygenation and Renal Function.

*Optional

Technical Specifications

Standard Configuration

5-lead ECG, RESP, SpO ,NIBP, HR, Temp (Single Channel)

Optional Configuration

Dual-IBP, Masimo/Respironis EtCO , Dual-Temp, Nellcor/Masimo SpO_2 , 3/12-lead ECG, Thermal Recorder, Trolley

Safety Standards

IEC-60601-1 | IEC-60601-1-8
IEC-60601-2-27 | IEC-80601-2-30
IEC-60601-2-34 | IEC-60601-2-49
ISO-80601-2-56 | ISO-80601-2-61
EN 1060-3

Indicator

Two Alarm indicators, Power indicator, Battery indicator, QRS beep, Alarm sound, Key Backlights

Data storage

Alarm Review	200 groups
Wave Review	6 Hours (8 waves)
NIBP Review	2000 groups
Trend Graph	160 hours
Trend Table	160 hours
Power-Off Storage	Yes
Alarm	User-adjustable High and Low 3-level Limits; Prioritized audible and visual alarm
Network	Connected to Central Monitoring System by hardwire/wireless

Respiration

Methods	RA-LL Impedance Method
RR Measure-ment Range	Adult: 0-120rpm, Pediatric/Neonate: 0~150rpm
Accuracy	7~150rpm: ±2rpm or 2%, whichever is greater; 0~6rpm: unspecified
Resolution	1 rpm
RESP Apnea	10s~60s(Adu); 10s~40s (Ped/Neo)
Alarm	Audible and visual alarm; alarm events reviewable
Sweep Speed	6.25,12.5,25mm/s
Gain Selection	X0.25, X0.5, X1, X2, X4

ECG

Lead Type	CardioTecTM5-leads ECG Analysis; 12-Lead and 3-leads selectable
Lead Selection	12-Lead: I; II; III; aVR; aVL; aVF; V1-V6 5-lead: I; II; III;aVR; aVL;aVF;V 3-lead: I; II; III
Gain Selection	1.25mm/mV, 2.5mm/mV, 5.0mm/mV, 10mm/mV, 20mm/mV, 40mm/mV, Auto. Manual replacement. Plus ±750mV DC polarization voltage; sensitivity change range: ±5%.
Sweep Speed	6.25,12.5, 25, 50mm/s
Heart Rate Range	Adult: 15-300bpm Pediatric/Neonate: 15-350bpm
Resolution	1 bpm
Accuracy	±1% or ±1bpm (whichever is greater)
Protection	Withstanding 4000VAC/50Hz voltage in isolation; Against electrosurgical interference and defibrillation
Bandwidth	MON Mode: 0.5 Hz~40 Hz DIA Mode: 0.05Hz~150 Hz OPE Mode: 1 Hz~20 Hz ST Mode: 0.05Hz~40Hz
CMRR	MON Mode: >105dB DIA Mode: >90dB OPE Mode: >105dB ST Mode: >105dB
Input Impedance	>=5MΩ
ST detection	-2.0mV~ +2.0 mV (Automatic)
Resolution	0.01mV
Accuracy	-0.8mV~ +0.8mV: ±0.02mV or ±10%; Others: Unspecified
Arrhythmia Analysis	26 Types
Pacemaker Detection	Detectable

NIBP

Method	Automatic Oscillometric
Work Mode	Manual / Automatic/ Continuous
Measurement Time	Adjustable (1-480min)
Maximum Measurement Time	Adu/Ped: 120s; Neo: 85s
Measurement Types	Systolic, Diastolic, Mean
Range of systolic pressure	Adult Mode: 40-270mmHg Pediatric Mode: 40-200mmHg Neonate Mode: 40-135mmHg
Range of diastolic pressure	Adult Mode: 10-215mmHg Pediatric Mode: 10-150mmHg Neonate Mode: 10-100mmHg
Range of mean pressure	Adult Mode: 20-235mmHg Pediatric Mode: 20-165mmHg Neonate Mode: 20-110mmHg
Over-pressure protection	Both hardware and software over pressure protection
Accuracy	±3mmHg
Resolution	1mmHg
Alarm	Systolic, Diastolic, Mean
PR from NIBP	40-240bpm
Resolution	1 bpm
Accuracy	±3% or ±3bpm, whichever is greater

SpO_2

Measurement & alarm range	0~100%
Resolution	1%
Accuracy	±2% (70~100%, Adu/Ped,non-motion) ±3% (70-100%, Neo,non-motion) Unspecified (0-69%)
PR Measure Range	20-250bpm
Resolution	1bpm
Accuracy	±1bpm
Alarm Range	0~300bpm
PI value	0.05~20%
Resolution	0.01% (0.05%~9.99%) 0.1% (10.0%~20.0%)
Accuracy	Unspecified

Technical Specifications

$EtCO_2$ (Mainstream)

Size	48mm * 24.3mm * 32.8mm
Measurement & alarm range	0–114 mmHg, 0–15 %, 0–15.2 kPa (at 760 mm Hg)
Accuracy	0–40mmHg: ±2 mmHg 41–76 mmHg: ±5% of reading 77–114 mmHg: ±8% of reading Above 80 BPM: ±12% of reading
Response Time	Capnogram displayed in less than 3 seconds, full specifications within 3 minutes（At 25）
CO_2 Resoltion	0.1mmHg to 38mmHg 0.25mmHg 39 to 114mmHg
CO_2 Stability	Short term drift: Drift over four hours shall not exceed 1 mmHg maximum Long term drift: Accuracy specification will be maintained over a 120-hour period
Sampling Frequency	100 Hz
awRR range	3-150 bpm
awRR accuracy	±1 breath
Voltage Requirements	5.0 VDC ±5%, 2W
Power Consumption	Less than 1.0 Watts typical (Steady State) Up to 1.8 Watts maximum on power up (Warm up)
Temperature and Humidity	Operating: 0 to 40 , 10 to 90% RH, non-condensing Storage: -40 to 70 , <90% RH, non-condensing
Water Resistance	IPX4 (sensor head only)

$EtCO_2$ (Sidestream)

Size	101mm * 78mm * 46mm
Measurement & alarm range	0–114 mmHg, 0–15 %, 0–15.2 kPa(at 760 mm Hg)
Accuracy	0–40mmHg: ±2 mmHg 41–76 mmHg: ±5% of reading 77–114 mmHg: ±8% of reading Above 80 BPM: ±12% of reading
Response Time	Capnogram displayed in less than 3 seconds, full specifications within 5 minutes (At 25)
CO_2 Resoltion	0.1mmHg to 38mmHg 0.25mmHg 39 to 114mmHg
CO_2 Stability	Short term drift: Drift over four hours shall not exceed 1 mmHg maximum Long term drift: Accuracy specification will be maintained over a 120-hour period
Sampling Frequency	100 Hz
awRR range	3 to 150 Breaths Per Minute (BPM)
awRR accuracy	±1 breath
Voltage Requirements	5.0 VDC ±5%
Power Consumption	Less than 1.2 Watts typical (Steady State) Up to 2 Watts maximum on power up (Warm up)
Temperature and Humidity	Operating: 0 to 40 , 10 to 90% RH, non-condensing Storage: -40 to 70 , <90% RH, non-condensing
Water Resistance	IPX4 (sensor head only)

IBP

Channel	2 Channels
Measured Pressure	ART, PA, CVP, RAP, LAP, ICP, LV, AO, UAP, BAP, FAP, UVP, IAP, P1, P2
Measurement Unit	mmHg/ kPa selectable
Measurement Range	ART: 0~300mmHg PA: -6~120 mmHg CVP: -10~40mmHg RAP: -10~40mmHg LAP: -10~40mmHg ICP: -10~40mmHg LV: 0~300mmHg AO: 0~300mmHg UAP: 0~300mmHg BAP: 0~300mmHg FAP: 0~300mmHg UVP: -10~ 40mmHg IAP: -10~40mmHg P1, P2: -50~300mmHg
Accuracy	±2% or ±1mmHg, whichever is greater
Resolution	0.1kPa or 1mmHg (-50mmHg~300mmHg)
Alarm Range	-50mmHg~300mmHg
PR from IBP	20bpm~350bpm
Resolution	1bpm
Accuracy	±1% or ±1bpm, whichever is greater
Alarm Range	20bpm~350bpm

Temperature (Dual Channel)

Measurement & alarm range	0~50°C
Sensor	Skin/rectal TEMP sensor
Resolution	0.1°C
Accuracy	±0.1°C (exclusive of error of sensor)
Channel	T1, T2, TD (Temperature Difference)

Fourier

Fourier

www.fouriermed.com sales@fouriermed.com 1800 102 2380