

ARGUS LCM

Vital Data Patient Monitoring



First-class quality for the budget conscious



SCHILLER

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The Art of Diagnostics

ARGUS LCM

6-channel ECG with 3-lead cable



Vital Data Patient Monitoring

The **SCHILLER ARGUS LCM monitor** – for the comprehensive vital data monitoring of adults, pediatrics and neonates. It is suitable for intra-hospital transport as well as in the ward.

Features/Parameters:

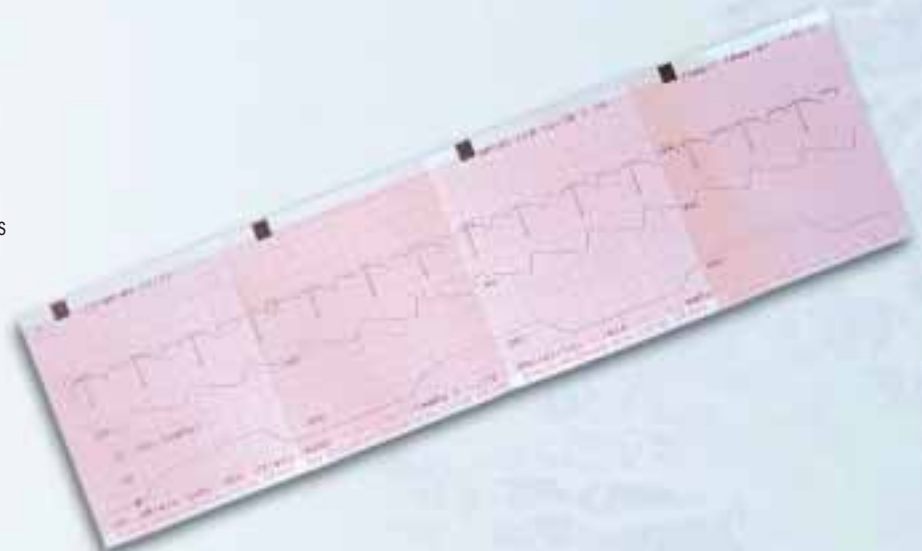
- 24-hour trend memory for all parameters
- Respiration monitoring via impedance measurement
- Temperature measurement (rectal, skin or ear)
- Non-invasive blood pressure (NIBP)
- Pulse oximetry (SpO₂): Masimo™ technology or Nellcor™ technology available
- Monitoring of all vital signs with prioritised alarms
- Invasive blood pressure
- etCO₂ sidestream

Key Advantages:

- Excellent price/performance ratio
- Large, high resolution colour LCD
- Light-weight and compact design
- Simplified operation using direct function keys
- Convenient carrying handle

Options:

- Integrated additional battery
- Integrated thermal printer
- Nurse call
- Board Net (12 VDC – 30 VDC)



ARGUS LCM plus



Up to 12-channel ECG

Vital Data Patient Monitoring

The **SCHILLER ARGUS LCM plus monitor** – for the comprehensive vital data monitoring of adults, pediatrics and neonates. It is suitable for intra-hospital transport as well as in the ward.

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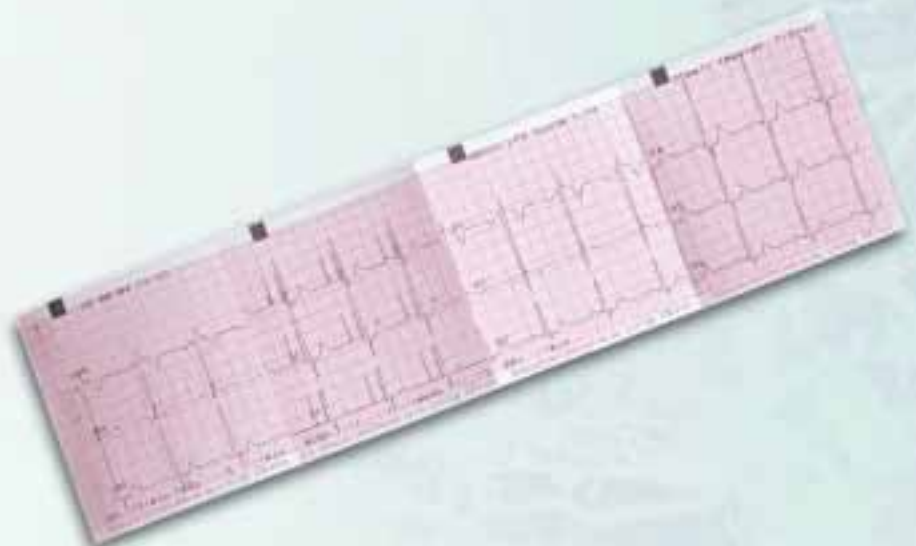
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Technical data of the ARGUS LCM & LCM plus:

System:

Dimensions: 290 x 275 x 180 mm (h x w x d); approx. 4.6 kg

Power supply requirements:

- 90 to 250 Vac, 50/60 Hz; mains independent operation of approx. 1 hour
- Optional: Additional battery for mains independent operation of 2 hours

Colour LCD:

- Backlit LCD for the display of graphics and of alpha-numerical characters
- Writing speeds: 12.5/25/50 mm/s (respiration: 6.25 mm/s)
- Display: 5, 4, 3 or 2 channels
- Resolution: SVGA, 800 x 600 pixels
- Diagonal size: 27 cm/10.4 inches

Power requirement: 30 VA

Printing method: High-resolution thermal printing head, 8 dots/mm (amplitude axis), 40 dots/mm (time axis) at 25 mm/s

Chart paper: Thermo-reactive, Z-folded, width: 72 mm, length: approx. 20 m

Paper recording speed: 25 mm/s

Frequency range of the digital recording system:

0.05 Hz – 150 Hz (IEC/AHA)

Patient leakage current: < 50 µA

Patient input circuit: Fully insulated and electrically isolated, defibrillation-protected, > 5 kV

Safety standard: CF according to EN 60601-1

Protection class: I according to IEC 60601-1

Conformity: 93/42/EEC, class IIb, CE

Ambient conditions:

- Operating temperature: 10° to 40° C
- Storage temperature: -10° to 50° C
- Relative humidity: 25 % to 95 % (non-condensing)

Standard interfaces: RS-232

ECG:

Amplifier: Fully insulated, defibrillation-protected, > 5 kV

Leads: Simultaneous recording of up to 12 standard leads

HR display: 20 – 250 beats/min.

Automatic lead programme: Simultaneous display of up to 3 leads per page

Sensitivity: 5/10/20/40 mm/mV, manually selectable

Recording width: 3-channel trace, in optimum width on 72 mm, automatic base line adjustment

Patient cable interfaces: 3-, 5-, 10-lead patient cable

ECG amplifier:

- Simultaneous, synchronous recording of up to 9 active electrode signals (= 12 channels)
- Sampling frequency: 1000 Hz

Pacemaker detection: ≥ 2 mV/ ≥ 0.1 ms

Mains frequency filter: Distortion-free suppression of superimposed 50 or 60 Hz sinusoidal interferences by means of adaptive digital filter

Trends:

Memory: All parameters are stored for 24 hours

Display: In tabular form and graphic display

Recording: Graphic representation possible

Respiration:

Amplifier: Fully insulated, defibrillation-protected, > 5 kV (incorporated into the ECG amplifier)

Measuring principle:

Impedance method with 3-, 5- or 10-lead patient cable

Sampling frequency: 50 Hz

Measuring range: Apnea, respiration rate: 0 – 200/min.

Impedance range: 0.1 – 3 Ohm

Temperature:

Amplifier: Fully insulated, defibrillation-protected, > 5 kV

Measuring principle: Rectal, skin or ear

Sensor: YSI 401

Measuring frequency: 1 per second

Measuring range: V 15° to 45° C

Resolution: 0.1° C

Non-invasive blood pressure (NIBP):

Cuffs:

- Disposable or reusable cuffs
- Different cuff sizes

Measuring principle: Oscillometric

Measuring range: 15 to 300 mm/Hg

Measurement: Automatic and manual

Deflation rate: 3 to 9 mm Hg/s

Display: Numerical; individual measurement values and trends

SpO₂ Pulse oxymetry:

Masimo™ technology

Amplifier: Fully insulated, defibrillation-protected, > 5 kV

Display:

- Numerical display in %
- Graphic display of the measurement quality
- Graphic/numerical display of the peripheral pulse

Measuring range: 0 to 100 %

Resolution: 1 %

Accuracy:

Adults: 70 to 100 %, ± 2 digits

Neonatal: 70 to 100 %, ± 3 digits

Nellcor™ technology

Measuring range: SpO₂: 1 % to 100 %

Pulse rate: 20 to 250 beats per minute (bpm)

Perfusion index: 0.03 % to 20 %

Accuracy:

Saturation: % Spo₂: ± 1 SD

Without motion: Adult 70 % to 100 %, ± 2 digits

Neonates 70 % to 100 %, ± 3 digits

With motion: Adult & Neonates 70 % to 100 %, ± 3 digits

Low perfusion: 70 % to 100 %, ± 2 digits

Pulse rate:

Without motion: 20 to 250 bpm, ± 3 digits

With motion: Normal physiologic range (e.g., 55 to 125 bpm), ± 5 digits

Low perfusion: 20 to 250 bpm, ± 3 digits

Monitoring of all vital data with alarm function

(excluding temperature):

Limit values: The upper and lower limit values are freely selectable

Invasive Blood Pressure:

Module: SCHILLER

Amplifier: Fully isolated, defibrillation protected > 5 kV

Sampling frequency: 500 Hz

Sensitivity: 5.0 µV/V/mmHg

Parameters: SYS, MEAN, DIA

Measuring range: SYS, MEAN, DIA: -400 to 400 mmHg

Accuracy: SYS, MEAN, DIA: 1 mmHg or ± 1 %

Calibration: Manual

Sensors: Different types of transducers can be connected

CO₂ Sidestream:

Module: PRYON®

Amplifier: Fully isolated, defibrillation protected > 5 kV

Sampling frequency: 33 Hz

Parameters: etCO₂, CO₂ins, respiration rate and apnea

Measuring range: CO₂: 0 to 99 mmHg, respiration rate 0 to 150/min

Resolution: CO₂: 1 mmHg, respiration rate 1/min

Accuracy: CO₂: ± 2 mmHg 0 to 40 mmHg

Start-up time: < 30 sec

CO₂ calibration stability: < 1 % outside accuracy

Sidestream rise time: 240 msec (10 % to 90 %)

Sidestream delay time: 1.2 seconds maximum with 213 cm (7") length, 1.4 mm (0.055") ID. Sampling line at 175 ml/min

Flow rate accuracy: ± 20 , ± 15 % of set value

Sidestream flow rate range: Variable from 90 to 200 ml/min

Barometric pressure: 428 to 790 mmHg (4572 m to -350 m; 15000 ft to -1150 ft)

Automatic ambient pressure compensation

Features of the ARGUS LCM & LCM plus models:

	LCM: all versions	LCM plus: all versions
ECG 3-lead plus	I, II, III, aVL, aVF	
ECG 3-lead		II
ECG 5-lead		I, II, III, aVR, aVL, aVF, V1
ECG 10-lead		I, II, III, aVR, aVL, aVF, V1-V6

	LCM/LCM plus A	LCM/LCM plus B	LCM/LCM plus D	LCM/LCM plus E
Respiration	x	x	x	x
NIBP	x	x	x	x
SpO ₂	x	x	x	x
Temp	x			
etCO ₂		x		x
Invasive pressure			x	x

Answer fax

Yes, I am interested in the innovative products from SCHILLER.
Please send me more information about:

Resting ECG:

- ☐ CARDIOVIT AT-1
- ☐ CARDIOVIT AT-1 smartprint
- ☐ CARDIOVIT AT-101
- ☐ CARDIOVIT AT-2
- ☐ CARDIOVIT AT-2 plus

Exercise ECG (Multitasking Systems):

- ☐ CARDIOVIT AT-10 plus
- ☐ CardioLaptop® AT-110
- ☐ CardioLaptop® PT-160
- ☐ CARDIOVIT AT-102
- ☐ CARDIOVIT CS-200
- ☐ CARDIOVIT AT-104 PC
- ☐ CARDIOVIT AT/SP-10
- ☐ Ergometry

Spirometry:

- ☐ SPIROVIT SP-1
- ☐ SPIROVIT SP-2
- ☐ CS-200 Ergo-Spiro
- ☐ PC Spirometry

Monitoring:

- ☐ ARGUS PRO System
- ☐ PHYSIOGARD TM/CS 910
- ☐ Pulse Oximeter OX-2
- ☐ MR Compatible Monitoring
- ☐ ARGUS LCM Monitor

Defibrillators/Monitoring:

- ☐ FRED® (First Responder External Defibrillator)
- ☐ FRED® easy
- ☐ FRED® easyport
- ☐ DEFIGARD (1002, 3002 IH, 6002)

- ☐ **Holter ECG** MT-101/200
- ☐ **Telemedicine:** MT-120/220 and AT-4 TELE
- ☐ **SEMA-200 Data Management System**
- ☐ **BR-102 Blood Pressure Recorder**
- ☐ **MS-3 Pocket ECG**
- ☐ **VAC-100 Vacuum Electrode System**
- ☐ **ECG & Spiro Accessories**

Name: _____

Hospital: _____

Position: _____

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e-mail: _____

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