SCOPE OF APPLICATION:

1. Ambulance cars and any transport of emergency care.
2. Emergency care at home, outside, in field conditions.
3. Hospitals (operating rooms, resuscitation and intensive care departments, intrahospital and interfacility transportation).
4. Military and specialized medicine.

CHARACTERISTICS OF CO_2 MONITOR "MINICAP"

Weight of the processing and indication unit with a ventilation adapter	100±20
Overall dimensions of the processing and indication unit	(56×55×47)±5
Time of autonomous work from the battery	not less than 3 hours
Scale of capnogram graph	automatical
Range of respiratory rate determination, resp./min	from 4 to 150
Range of CO_2 concentration determination, mm Hg (volume %)	from 0 to 114, (from 0 to 15)
Tolerance of respiratory rate determination, resp./min, not more than	±1
Tolerance of CO_2 concentration determination, 0–40 mm Hg (0 -5,3 %), not more than	±2 mm Hg (±0,3 %)
Tolerance of CO_2 concentration determination, 41–70 mm Hg (5,4 -9,2 %), not more than	±5%
Tolerance of CO_2 concentration determination, 71–100 mm Hg (9,3 -13,2 %), not more than	±8%
Tolerance of CO_2 concentration determination, 101-114 mm Hg (13,3 -15,0 %), not more than	±10%
Tolerance of CO_2 concentration determination, when respiratory rate ⩾80 resp./min, not more than	±12 %

Recommended to use together with CPR device “ARKA”, Lung ventilator “RHYTHM 100 TMT”

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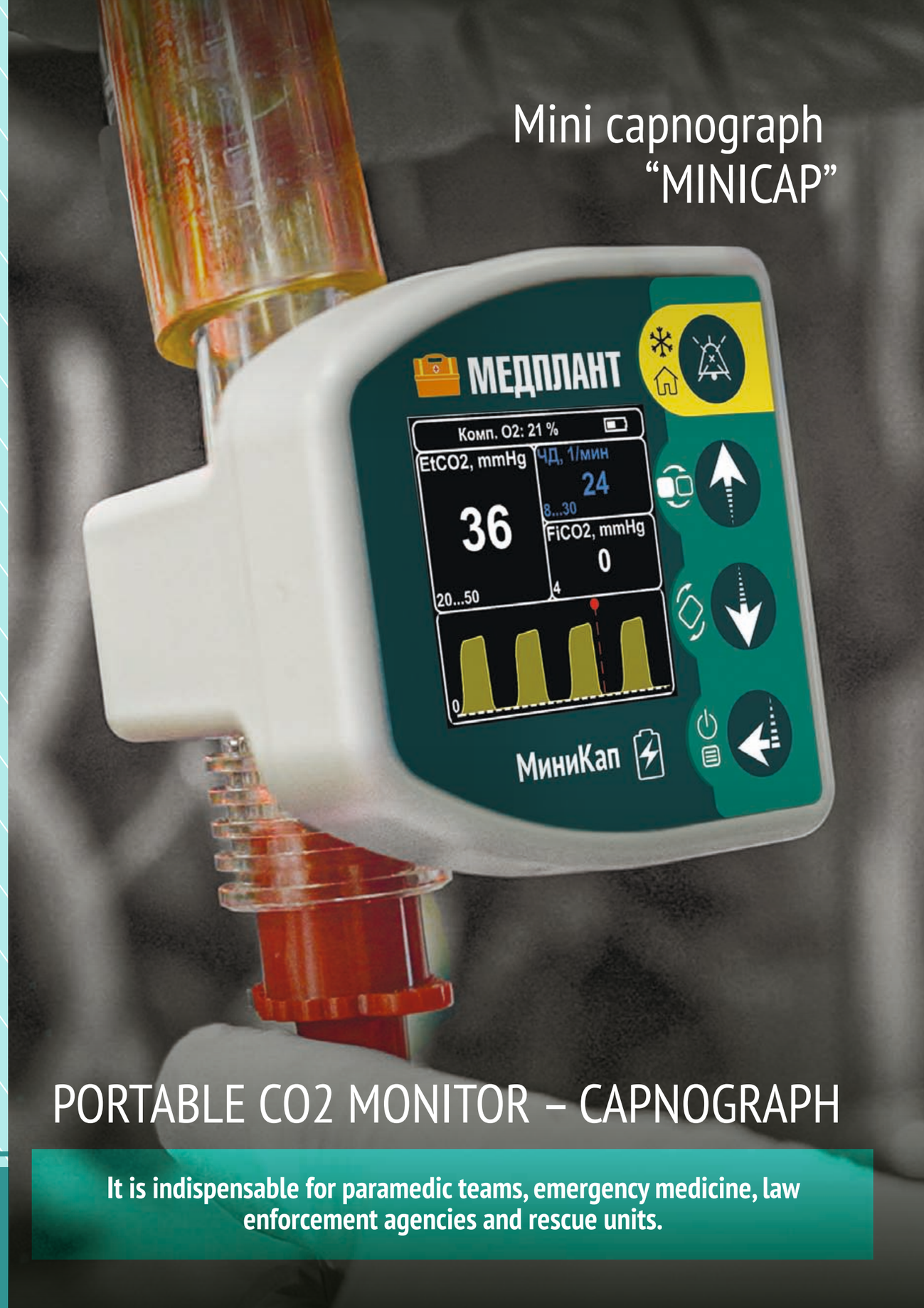
Mini capnograph “MINICAP”



PORTABLE CO2 MONITOR – CAPNOGRAPH

It is indispensable for paramedic teams, emergency medicine, law enforcement agencies and rescue units.

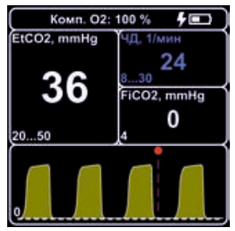
PURPOSE:

- Continuous non-invasive monitoring of the carbon dioxide (CO_2) concentration in the Main Stream by installing the Monitor with a ventilation adapter into the breathing circuit of patient.
- Measurement of the concentration of carbon dioxide in the respiratory gas mixture at the end of exhalation (Et CO_2) and at the beginning of inhalation ($FiCO_2$).
- The respiratory rate determination (RR).
- The graphical presentation (capnogram) and the measurement results display in real time.
- Generation of alarm and information signals based on physiological and technical parameters.

THIS INVOLVES SOLVING THE FOLLOWING TASKS AND ACHIEVING THE FOLLOWING GOALS, WHICH ARE ESPECIALLY RELEVANT AT THE PRE-HOSPITAL STAGE:

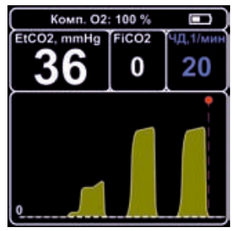
1. Control of trachea intubation effectiveness.
2. Control of spontaneous circulation return during CPR.
3. General control of ALV process.

EXAMPLES OF DISPLAY PARAMETERS:



Display 1
“Full”

Display 2
“Large figures”



Display 3
“Large capnogram”

Views of diagnostic display

Technical alarm

Physiological alarm

Alarm window

MAIN DIFFERENCES FROM ANALOGUES:

- Measurement and monitoring of $FiCO_2$ to control patient safety in case of large dead space or equipment malfunction
- Full-fledged possibilities of display and control like in a full-size monitor, allowing to set the screen to display large chars or large capnogram
- 3 types of display, 4 variants of display orientation with the 90 degrees rotation

The change of display orientation of diagnostic display

ADVANTAGES AND FEATURES OF DEVICE:

- Supercompactness, installation into the contour.
- Full set of parameters on the screen (separate $EtCO_2$ and $FiCO_2$ indicators, respiratory rate, graphical capnogram with auto-scaling, set FiO_2 compensation).
- Intuitive control, easy-to-read button designation and on-screen information.
- “FREEZE” mode (“Freezing”, pause) – operation stop for tube sanation or device setting up, this mode provides fast operation readiness after turning on and preparation

Examples of display types in the "Freeze" mode

- Colour display, visualization.
- A wide range of physiological and technical alarms with optimal default settings for monitoring the emergency events, with possibility of individual settings and turning off, all alarms are visual and audible.
- Fast comfortable navigation through the settings menu, with instant return to the main screen.
- There is no unpredictable self-calibration at the wrong time.
- Usage of disposable and reusable adapters.
- A well-thought-out storage system for the device itself and accessories based on the "two cases" principle.