BMC

G3 X Auto CPAP

Intelligent device for optimized treatment



Health Focus
TOUCHING LIVES

G3 A20



Why choose the G3 X?

In 2025, Kernel Biomedical conducted an independent bench study evaluating six leading APAP devices under identical simulated conditions.

The study assessed:

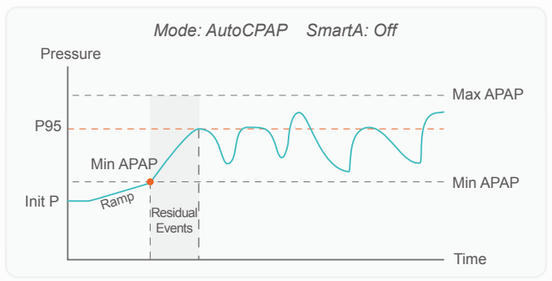
Event detection accuracy | Pressure response | Leak compensation | Data reporting reliability

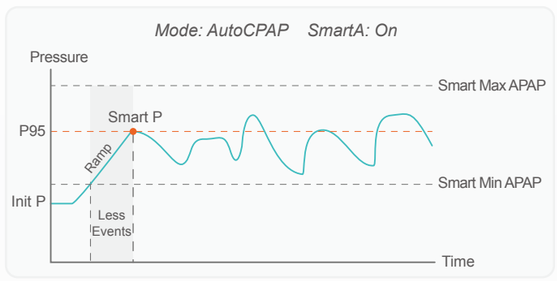
The BMC G3 X consistently demonstrated precise event detection and smooth, stable pressure control, ensuring that clinicians can be confident in the new algorithm ability to deliver effective, and safe therapy.

Personalized Sleep Therapy

Smart Adaptive Algorithm (SmartA)

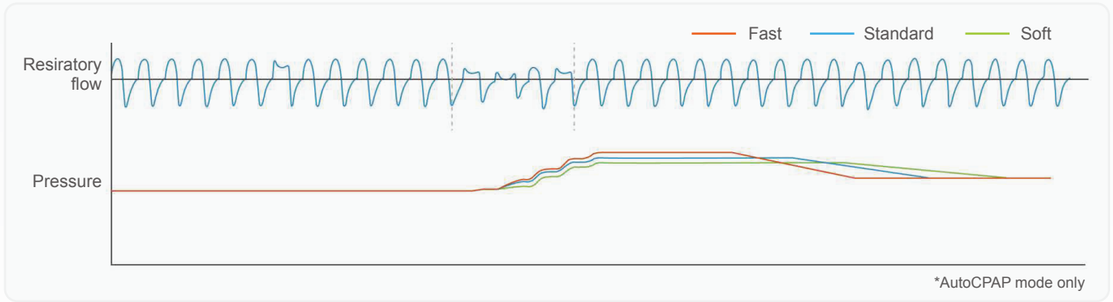
- Dynamically adapts to an ideal starting pressure after ramp, based on data from the last 5 effective treatment days, reducing the risk of residual events emerging at the start of treatment.
- Continuously optimizes minimum and maximum pressure thresholds throughout long-term therapy to accommodate weight or health fluctuations, reducing the need for clinical visits while maintaining treatment efficacy.





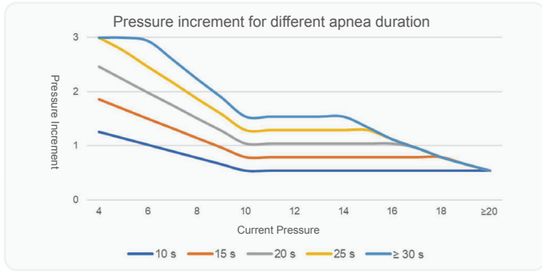
Matching different user sensitivities: 3-Level Pressure Response

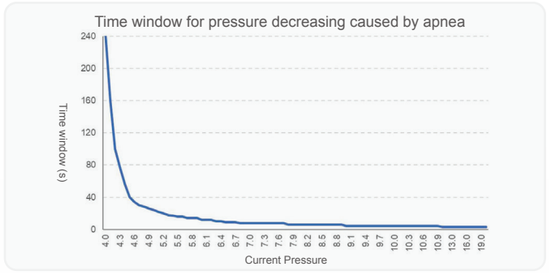
- 3-Level pressure responses that adapt to patient phenotype based on event severity and pressure level:
  1. STANDARD option, used as baseline treatment for most patients.
  2. SOFT option, ideally used for pressure-sensitive patients offering gradual pressure transitions, minimizing pressure discomfort and enhancing therapy adherence.
  3. FAST option designed for patients with severe OSA and high BMI, delivering rapid pressure response to correct respiratory events and assure higher treatment efficacy.



Intelligent pressure adjustment

- The pressure adjustment algorithm is designed to achieve both clinical efficacy and patient comfort.
- It fine-tunes pressure increases or decreases based on two key parameters: the severity of respiratory events and the current real-time pressure level.
- This ensures precise, personalized adjustments that minimize unnecessary pressure variations, maintaining effective therapy while optimizing comfort.





Warm to Soft Automated Care from Dusk to Dawn

10:00 PM
Pre-heating
First breath cradled in warmth
1

10:30 PM
Auto On
Instant therapy initiation upon mask fit. No fumbling for buttons while laying back
2

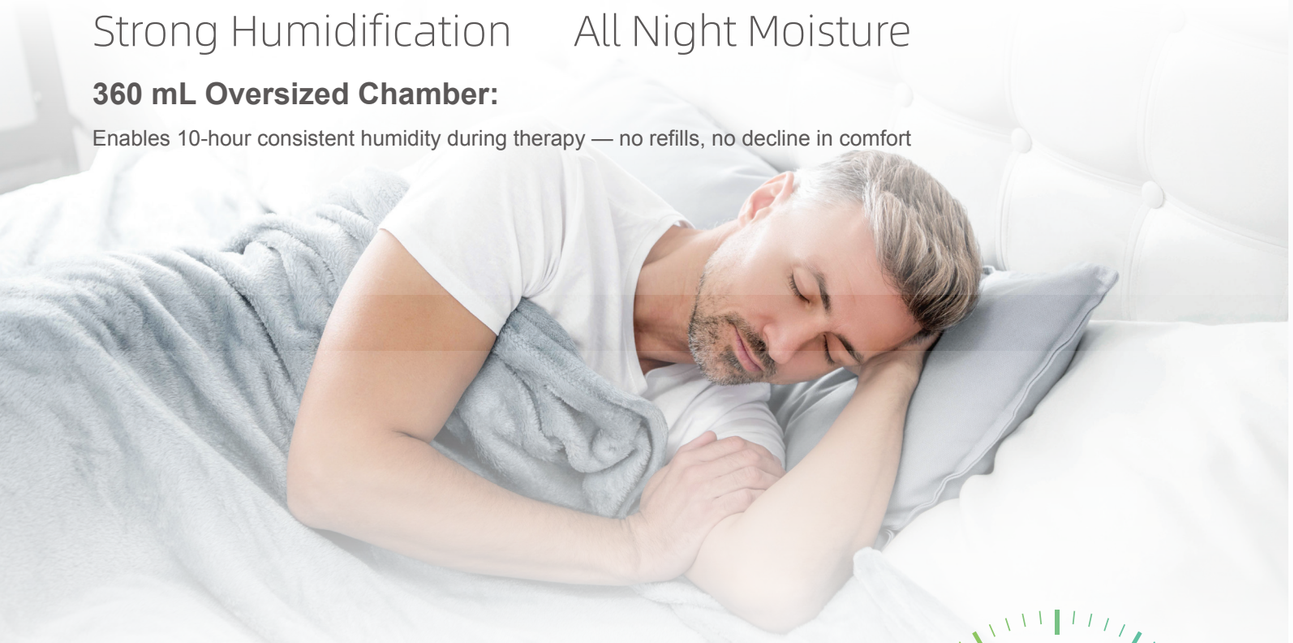
10:45 PM
Auto Ramp
Comfortable treatment at low pressure until stable sleep begins. Then the pressure slowly rises minimizing the risk of arousals
3

3:00 AM
Auto Humidification
Smart humidity and temperature control minimizes mouth/nose dryness and condensation
4

7:00 AM
Auto Off
Therapy stops automatically upon mask remove. Walk away freely without pressing buttons
5

7:15 AM
Delay Off
Runs 15-min cool airflow post-therapy drying tubing to prevent condensation and cool the heating plate for safety
6

Strong Humidification All Night Moisture



360 mL Oversized Chamber:

Enables 10-hour consistent humidity during therapy — no refills, no decline in comfort



Water Chamber with Large Capacity



Smart Control of Humidity & Temperature



Last for 10 hours

*Tested with Room temperature: 25°C, Ambient humidity: <20%, Humidity setting: Level 3

Push-Push Water Chamber Effortless Daily Refills

Easy remove with a simple palm press

Ideal for users with limited finger strength



Compact bedside fit

Lift-up removal saves side space vs. traditional pull-out designs



Extra-wide fill port

Spill-resistant design for mess-free refilling



Accessories



AF-D1 Black

Air Filter



Black

Air Filter Cover



PF-D1 Black

PM 2.5 Filter



15 mm / 19 mm

Heated tubing



SP-100



SOO1OB-S



SOO26N-L

SpO_2 kit (Main Device)

Oximeter Sensor (Finger Clip)

Oximeter Sensor (Disposable)



Cellular / WiFi Module



WT-D1

Water Chamber



CC-D1

Carrying Case



Power Adapter



Power Cable



12 V / 24 V

DC/DC Converter



SD Card

Specifications

Prescription Guideline

Work Mode	CPAP, AutoCPAP	Smart Adaptive	SmartC, SmartA
Pressure Range	4 to 20 hPa	Pressure Response	Fast, Standard, Soft

Comfort Functions

Pre-heating	Support; 30 min countdown (can stop at any time)
Ramp	Auto, 0-60 minutes
Reslex	Off, Level 1 - 3
Auto On/Off	Support
Humidification	Auto, Level 1 - 5; Heated tubing (Optional)

Device Information

Dimensions	265 mm × 145 mm × 114 mm (L x W x H)
Weight	1.7 kg
Sound Pressure Level	28±2 dB(A)
Water capacity	360 mL
Humidifier Output	>12 mg H_2O/L

Data Communication

Data Transfer	SD Card, iCode QR, iCode QR+, Cellular Module, WiFi Module	
Internal Storage	Summary data: up to 512 days	Detailed data: up to 12 hours
SD Card Storage	Summary data: all the time	Detailed data: up to 70 days (at 8 hours of daily use)

Data-Driven Cloud Management from Compliance to Confidence

PAP Link Digital Health solutions (PC, Cloud and Patient App) provide a complete set of tools to optimize therapy management and improve treatment outcomes.

For Clinicians

Precision Treatment at Your Fingertips

- Remotely fine-tune settings during the first weeks, delivering personalized therapy to maximize comfort and build therapy acceptance.

For Health Care Providers

Data-Driven Patient Support

- Advanced cloud CPAP data analysis driving proactive patient care.
- Automated reimbursement-ready reports streamline paperwork with one-click exports.

For Patients

Therapy Insights, Anytime Anywhere

- Nightly reports with smart interpretations and personalized coaching tips, empowering self-management for better therapy outcomes.

PAP Link App

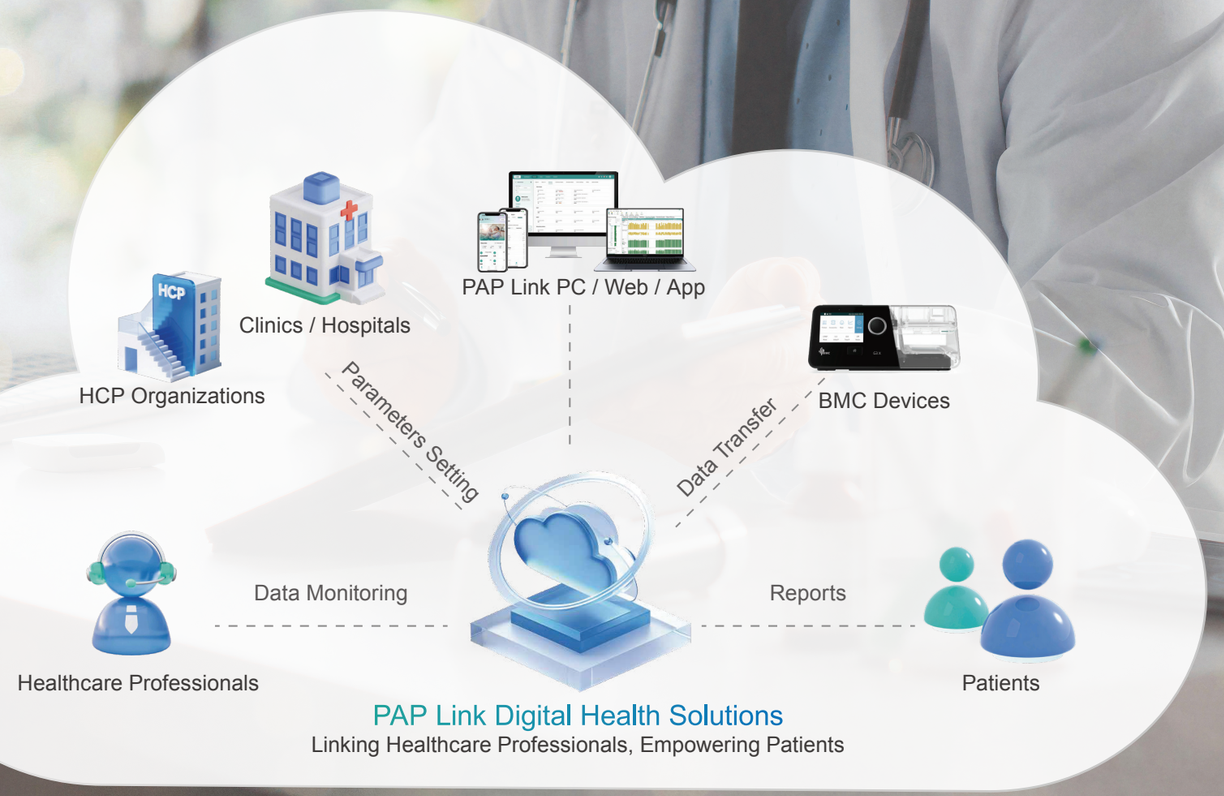
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