

Wireless **BabyCare**TM Intelligent Baby Monitor Solution Innovation, Smart Baby Mat & Camera

Application for Smart Phone/ iPhone/ iPad/ Notebook




Wireless

Intelligent Baby Monitor Solution

Smart Baby Mat

4




433MHz
Low-power radio frequency

UBC-001

The diagram shows a yellow rectangular mat with a white sensor unit on top. A smartphone is connected to the mat via a wireless signal icon.

Smart Baby Mat

6



2.4GHz
Short range RF

UBC-002B

The diagram shows a yellow rectangular mat with a white sensor unit on top. A smartphone is connected to the mat via a wireless signal icon.

Smart Baby Camera

10



2.4GHz
IEEE 802.11b/g Wi-Fi

UBC-006W
P2P IP Camera

Internet

The diagram shows a white camera on a base, connected to a smartphone via a wireless signal icon. A cloud icon labeled 'Internet' is also shown.



CE FC

Safe Baby Mat

Baby Mat development has taken into account the low-power radio electromagnetic international standards: EN50371

Note:EN50371-This generic standard applies to low power electronic and electrical apparatus for standard regarding human exposure to electromagnetic fields applies.

BabyCare™

Why UBabyCare ?

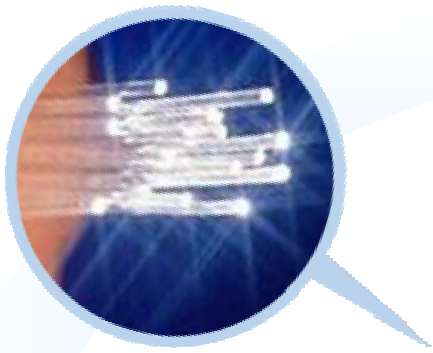
Who is looking after your sleeping baby when you had fallen asleep...

Knowing your baby is doing well by actively monitoring your baby in real time will give you a peace of mind and relief your stress of parenting.



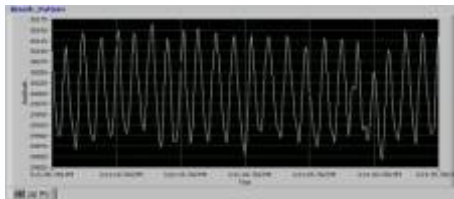
UBabyCare, Your Baby Care!

- All new born babies and especially pre-mature babies must learn to breath independently after leaving mum's womb
 - UBabycare(UBC) Smart Baby Mat is incorporating BreathOptics Technology, tested in hospitals and proven to be able to capture baby breath count accurately.
 - Having UBC to monitor baby breath movement at this critical time is important
 - Some new born babies will suffer respiratory problems from day one.
 - Parents can ease the transition of newborn from hospital to home care
- UBC Monitor Series is a latent need for newborn and pre-mature babies
 - As infants spend more than 12-16 hours sleeping a day, it is vital to be able to monitor their sleep.
 - Smart Baby Mat is the only baby monitor on the market that can tell your baby breath movement count during sleep.
- UBC acts as a 'service call' device for babies
 - Because the baby is helpless and cannot communicate in a meaningful way to the caregiver about his/her breathing difficulty
 - Intelligent Baby Monitor can help you understand your baby's needs.
- Parent Control Unit and smart phone application is simple, easy and friendly for helping baby Parents and Caregivers

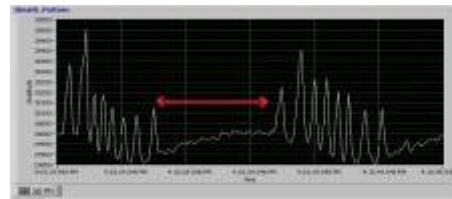


Detection Technology

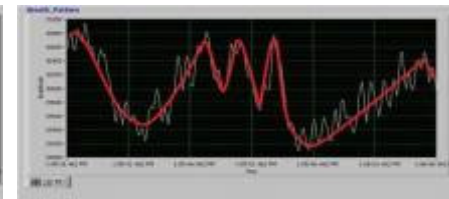
Smart Baby Mat detects the most subtle breathing movement of a newborn baby using state-of-the-art fiber Optic sensing technology



Baby sound asleep



Baby with irregular breathing
15 seconds to trigger apnea alarm



Baby having slight movements

- Inside the latex mat, UBC Mat series utilises high sensitivity optical detection technology (BreathOptics Technology, patent pending), to detect baby's movement or weight pressure to assess the baby's current status such as asleep, awake (crying), off mat or no movement.
- The technology has been tested in hospitals and proven to be able to capture baby breath count accurately.
- This latest fiber optics sensing technology can Detect and Actively monitored your baby breath movement in real time.



Please place a sheet or a towel on top of the mat. Babies should be placed on the yellow detection area



Carried by the caregiver or placed nearby



Operating Principle

- In Smart Baby Mat, an optical fiber sensor is sandwiched with layers of latex and soft material on the top and bottom of the mat.
- The optical fiber sensor is connected to a light emitting diode feeding light. When an baby lies on the mat, different movement patterns of the baby modulates different light attenuation, generating different signals for detecting sleeping, waking movement, no movement and not on the mat.
- The signal is transmitted wirelessly via RF to a Parent Control Unit, a receiver which translates it into user-readable information via touch (vibration), visual (display on an LCD) and audio (sound alert).
- The signal is further processed to detect and count subtle breath movement of the infant when the infant is sound asleep.



Importance Notice:

UBC series is not a medical device. It does not provide any medical treatment, prevent SIDS (Sudden Infant Death Syndrome) or detect sickness or vital signs. If there is any abnormal situation with the baby, please consult a doctor as soon as possible. UBC will send an alert when there is something abnormal detected regarding the baby's movements, only when the parents or caregivers are within the signal operation range.

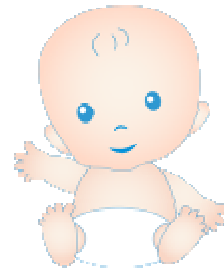
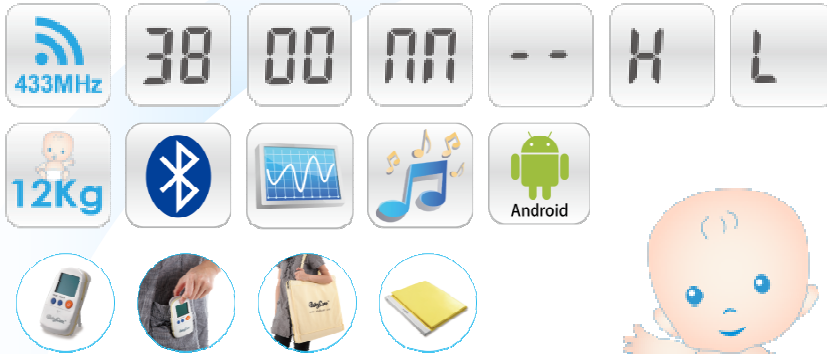
UBC-001 Series Smart Baby Mat

433MHz Intelligent Baby Movement Monitor

Application for Low-Power Consumption, Baby Bed



Features



- Detect baby breath movement counts
- Alarm baby wakeup
- Alarm baby out-of-mat
- Alarm baby abnormal breathing episode
- Alarm baby no movement
- Suitable for 2Kg~12Kg Babies
- Soft and comfortable natural latex TPU water proof mat, with mould proof and germ proof covering fabric.
- Folderable, Simple, Easy and easy to carry
- Low power consumption
Battery powered Approx. 30 days(12hr per day)
- Lullaby & story stream (Optional)
- Graphically display Baby Breath Movement Scope & Log (Optional)

Specification

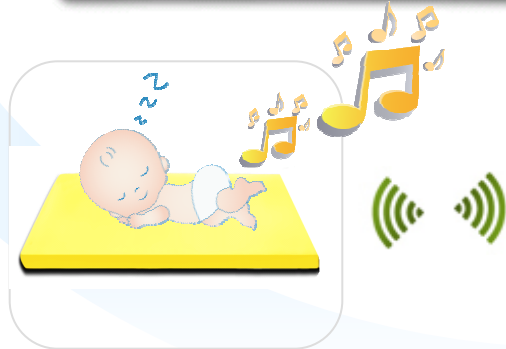
Product Information	UBC-001-A Wireless Receiver (For Caregivers)	UBC-001-B Wireless Movement Optics Mat (For Babies)	Product Information	UBC-001-C Bluetooth Device (Optional)
Dimensions	10.5cm*5.6cm*1.6cm	81cm*50cm*2.5cm (Folded Size: 42cmx50cmx3cm)	Bluetooth Compliance	Bluetooth 2.1+EDR specifications
Weight	Approx.60g	Approx.1300g	Frequency Band	2.4GHz~2.48GHz unlicensed ISM band
Battery Powered	2pcs xAAA batteries	4pcs xAA batteries	Output Power	Class 2 Power Output,up to 10 meters
LED light	LED Backlight	Red and green	Support Profiles	OPP and A2DP
Alert options	Vibration only or Audio plus vibration	Audio	Battery Charging Time	About 3 hours
Construction	Display screen: Grey silver monochrome number display	Foam & Fiber Optic sensors Material of cover: Waterproof with TPU cloth /1cm latex	Charger Voltage	DC5.0V 400mA
Working Temperature & Humidity	10~40°C, 10%~75%	10~40°C, 10%~75%	Battery Type	650mA (Rechargeable Lithium Battery)

Note: The product specification is subject to change without notice.

UBC-002B Series Smart Baby Mat

2.4GHz Intelligent Baby Movement Monitor

Application for Smartphone, Baby Bed



UBC-002B



Supporting Android/iOS Smartphone & Pad

Features



- Baby's breath movement per minute (BPM)
- Room ambient temperature
- Keeping daily sleep activities log of your baby
- Graphically display the breathscope movement of the sleeping baby.
- Streaming lullaby music from your smart phone
- Baby activity patterns display :wake up/
- Baby absence /No baby breathing movement Detection
- Baby feeding schedule reminder
- Suitable for 2Kg~10Kg Babies
- Soft and comfortable natural latex TPU water proof mat, with mould proof and germ proof covering fabric.
- Size can be customized.

Specification

UBC-002B Smart Baby Mat

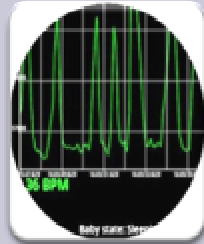


Dimensions	650mm(L) x 450mm(W) x 32mm(H)
Weight	Approx. 1400g
Material of cover	Waterproof with TPU cloth /1 cm latex
Smartphone APP	Android 2.3 / iOS4 above
RF specification & range	2.4GHz short range RF
Battery Powered	4 pieces AA-size batteries Approx.22 days (12 hrs per day)
Construction	Foam & Fiber Optic sensors
Working Temperature & Humidity	10~40°C , 10%~75%

Note: The product specification is subject to change without notice.

UBC-002B

Awesome Active Baby Monitor that 'Feels' the baby breath movement



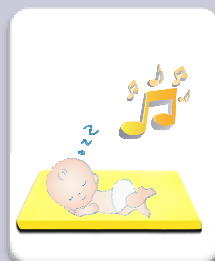
Active monitoring on baby
**Breath counts, know your baby is sleeping well, while everyone is asleep



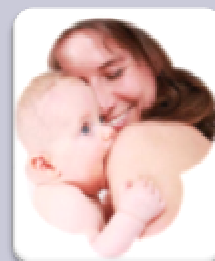
Mandatory alerts!
**Baby is not breathing



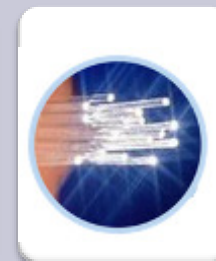
Is your room too cold or hot for baby to sleep-in?
**Ambient room temperature sensing



Lullaby your baby to sleep
**lullaby music streaming from smartphone

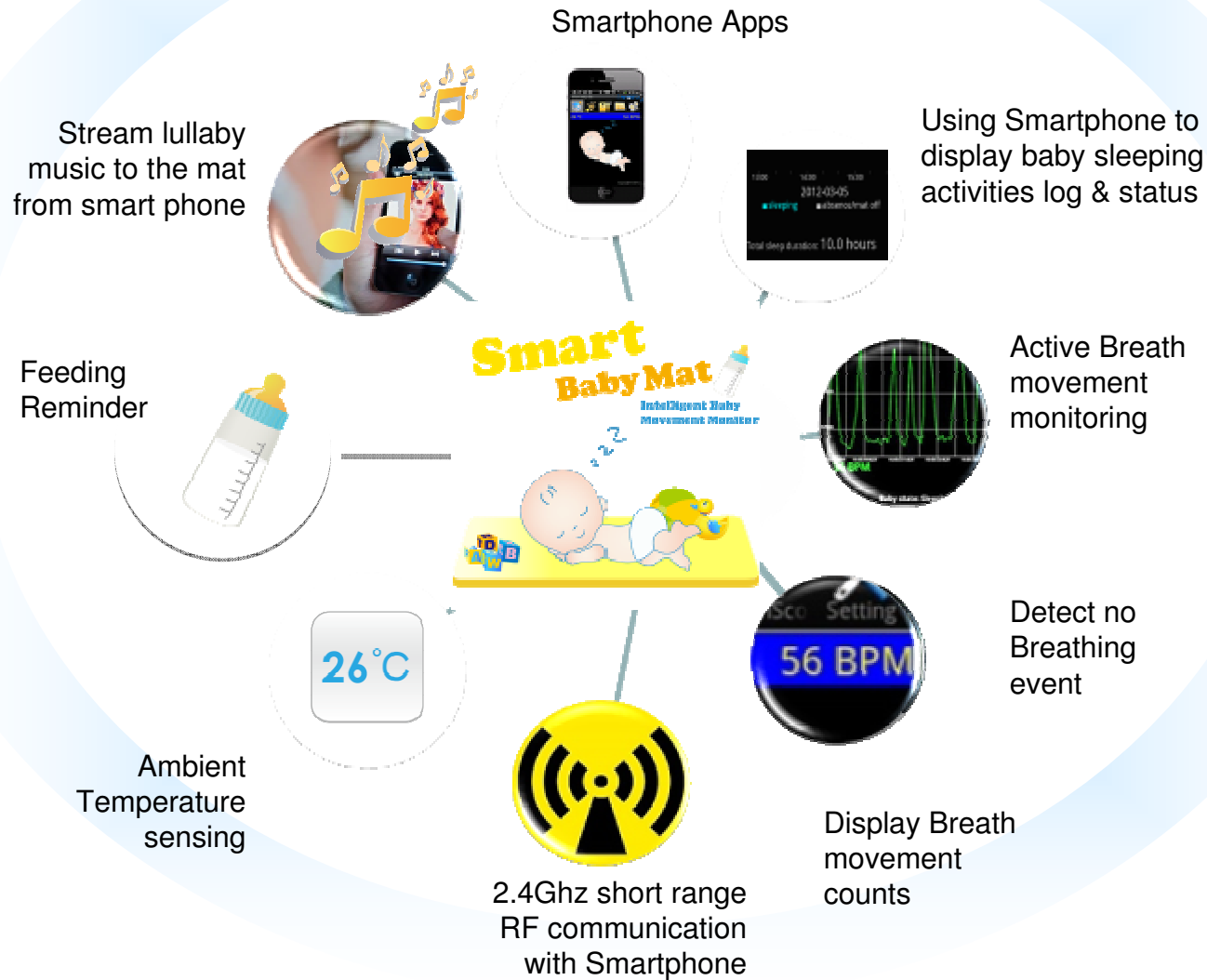


How long did your baby sleep today or yesterday?
**record Baby sleep log activities



Know your Baby has really woken up with state-of-art twin-factor sensing technologies of fiber optics and sound sensors

UBC-002B for Gen-Y Parents



UBC-002B vs Traditional Pad

Key Features	Electronics sensor Pad	Intelligent Baby Movement Monitor
High sensitivity Optic Fiber sensor	No	YES
Accurate Breath count update & display	No	YES
Breath Trending up or down alert	NO	YES
No-Breath count event sensing	NO	YES
Movement only	YES	YES
Movement sensing – Wake up or struggling movement	NO	YES
Baby absence sensing	NO	YES
Smartphone Apps Key Features (Android & iPhone)	NO	Yes
Display Breath counts and No Breath Alert	NO	YES
Display Breath movement waveform	no	YES
Stream Baby Lullaby music to mat	No	YES
Display Baby sleep log and Ambient Room Temperature	No	YES
Wireless Parent control unit	Yes	Smart Phone application
Ambient Temperature sensor	yes	YES
Battery operation (AA batteries)	No	YES (nominal 20 days)

UBC-006W Series Smart Baby Camera

2.4GHz P2P Internet Video & audio Monitor

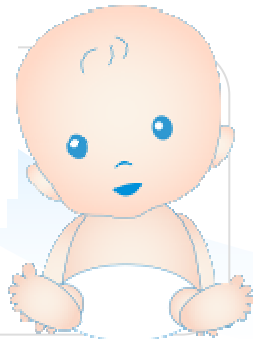
Application for Smartphone & Pad



Supporting Android/iOS Smartphone & Pad

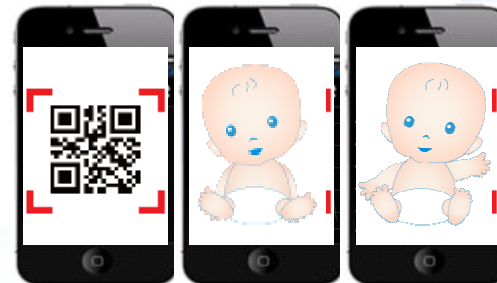


IEEE 802.11b/g Wi-Fi



Internet

- Baby monitor
- Elder care monitor
- Home environment Instant surveillance



Features



- P2P technology for plug and view
- H.264 High quality compression
- Audio communication
- Built in infrared for day and night monitoring
- Motion detection, alarm recording and event list
- Micro SDHC card for video recording
- QR code scan for easy configuration
- Live monitoring and snapshot
- Pan/tilt control
- Video and event list playback from SD card



Easy to Use Plug and Play 3 Steps



•Connect to power

•Download surveillance APP
•Enter UID and password

•Live view via internet
•Video play back from SD card
•Event search

UBC-006W P2P/IP Camera Specification



Item	Type	Specification
Smart phone APP	Smart phone OS	iOS4 and above, Android 2.2 and above
	ID enter method	QR code scan
	Basic function	Live view, P/T control, Snap shoot, Event list, SD card recorded video play back
System	Operation system	Embedded Linux OS
	Security	Changeable user password All packet encrypt by AES
	Local storage	Support up to 32G TF Cards
	Pan / Tilt	Pan:270°, Tilt:90°
	Alarm	Motion detecting / 1 way input GP I/O
Camera	Image sensor	1/4inch 0.3 Megapixel CMOS sensor
	Minimum Illumination	0.3Lux
	Night vision	10 Φ 5mm LEDs IR Distance: 5m
	IR-CUT	Built in IRCUT no color cast in day, clearer images at night
	Lens	Standard 3.6mm
Video	Video Compression	H.264
	Resolution	VGA(640x480) /QVGA(320x240)
	Maximum frame rate	25fps
	Auto adjustment	Auto White Balance, Auto Exposure, Automatic Gain
Audio	Encode formats	ADPCM
	Input	Built in Microphone
	Output	One channel linear output
Network	Socket	RJ-45 Ethernet slot
	Protocol	TCP/IP HTTP TCP UDP DHCP UPnP P2P
	Wi-Fi	Wi-Fi 802.11 b/g/n
Physical Index	Power	DC 5V2A
	Consumption	<6W
	Working temperature/ Humidity	10~50 , 10%~85%
	Weight	Gross 656g (Reference only)
	Package size	200*120*179mm (L*W*H)

Note: The product specification is subject to change without notice.



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