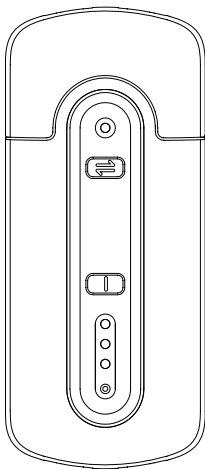




THE BUDDIE SYSTEM

INSTANT SAFETY ALERT



User Manual

Document Version 1.0

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INTENDED USE

The Buddie System is a secondary emergency alert device intended for use by personnel working in proximity to construction cranes. It is worn on the body using a lanyard and is designed to provide an alternative means of communication when primary methods—such as two-way radios or walkie-talkies—are unavailable, inaccessible, or have failed.

When the lanyard is pulled, the lanyard device transmits a wireless LoRa signal to a crane device located in the crane cab, triggering a loud audible alarm to alert the crane operator of a potential emergency.

The Buddie System is intended to supplement existing, industry standard site communication and safety and emergency systems and protocols. It is not a replacement for those primary systems and protocols, but serves as a critical backup to ensure the ability to raise an alarm when other methods are compromised.

Please review this User Manual carefully prior to using The Buddie System, including 'Compliance and Warranty' (see page 20).

WHAT'S IN THE BOX

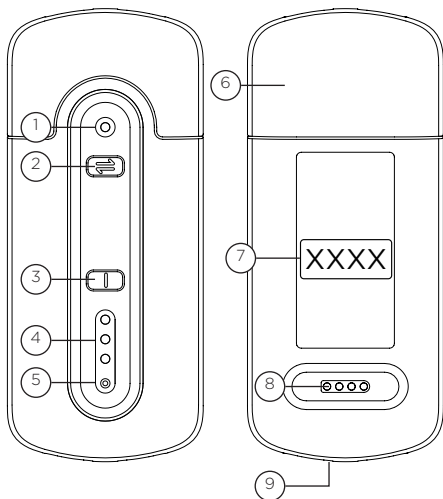
LANYARD BOX

1 x Lanyard Device
2 x Lanyards
1 x Charging USB-C Cable
1 x User Manual

CRANE BOX

1 x Crane Device
1 x User Manual
1 x Magnetic Mount
1 x Suction Cup
1 x Mounting Arm
1 x USB Adaptor
1 x Hex Key

DEVICE OVERVIEW - LANYARD



1. Pairing LED
2. Pairing Button
3. Power Button
4. Battery Level LEDs
5. Alarm
6. Breakaway Clip
7. Unique ID
8. Charging Plates
9. Lanyard Hook Point

FUNCTIONALITY - LANYARD POWER ON/OFF

Power ON: Hold **POWER** for 2 seconds → LEDs flash green

Power OFF: Hold **POWER** for 4 seconds → LEDs flash yellow

When on, **pairing LED** blinks green every 5 seconds

BATTERY LEVEL

3 LEDs = Full

2 LEDs = Medium

1 LED = Low — charge soon

0 LEDs = Battery depleted — device will shut down

PAIRING & UNPAIRING

Pairing

- Hold **PAIR** for 2 seconds → LEDs flash **blue**
- Top LED flashes blue (10s) while searching
- If paired: LED flashes **green** + short beep
- If failed: LED flashes **red** (2s)

Unpairing

- Hold **PAIR** for 4 seconds → LED flashes **yellow**
- Flashes up to 20s or until unpaired
- LED then turns solid **yellow** (2s)

CHECK PAIRING STATUS

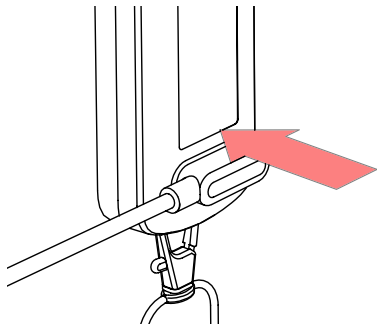
- Press **PAIR** once
- Top LED flashes **yellow** (checking status, up to 10s)
- Then displays
 - Solid green + buzz (5s):** Paired
 - Solid yellow (5s):** Not paired
 - Flashing red (2s):** Out of range

CHARGING

Connect the provided cable to charge the device.
Power LEDs show progress:

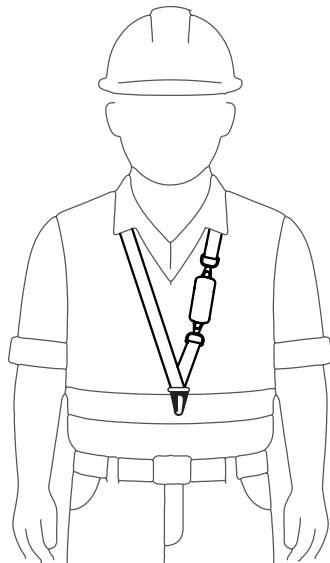
- **1-2 LEDs:** Charging
- **3 solid green LEDs:** Fully charged (~10 hours)

Note: The device cannot communicate while charging.

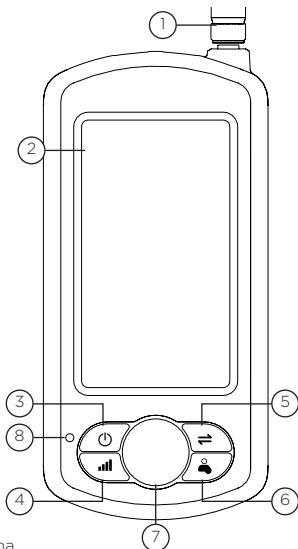


MOUNTING

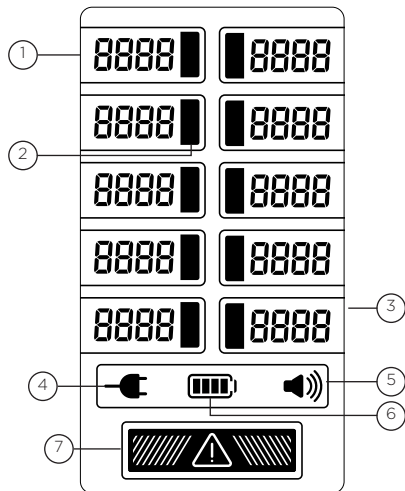
Device is designed to be worn around the neck using the supplied lanyard as shown above.



DEVICE OVERVIEW - CRANE



1. Antenna
2. Display
3. Power Button
4. Volume Button (3 options)
5. Pair Button
6. Unpair User
7. Rotary Dial
8. Power LED



1. Lanyard Unique ID - 10 slots
2. Connection Status
Flashing - Not connected
Solid - Connected
3. Selection - Line is not visible when you have selected this user
4. Device is running on mains power
5. Volume Level
6. Battery Indicator
7. Alarm Indicator - Flashing

FUNCTIONALITY - CRANE

POWER ON/OFF

Power ON: Hold **POWER** for 3 seconds

→ Display turns on

→ Green LED on if connected to mains

Power OFF: Hold **POWER** for 3 seconds

→ Display turns off

Note: when the device is powered off while connected to mains the green LED will remain on.

PAIRING & UNPAIRING

Pairing

- Press **PAIR** → Connection Bars Flash
- Bars flash (10s) while searching for lanyard device
- If paired: UID appears on display
- If failed: Bars stop flashing, no UID added

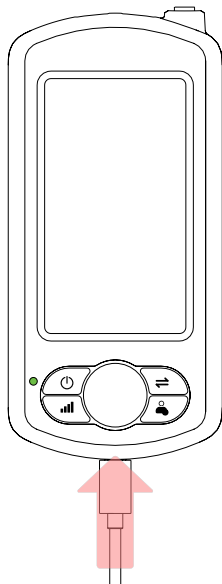
Unpairing

- Use the dial to select the UID
- Press and hold **UNPAIR** for 3 seconds
- Selected UID is removed from display

CHARGING

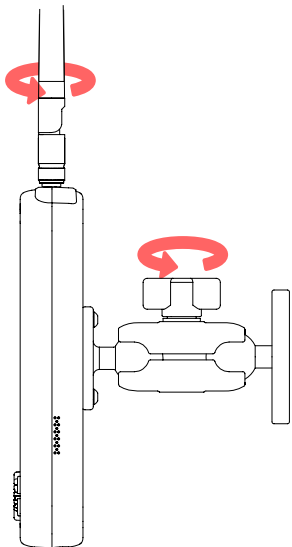
To charge the device connect the provided charging cable as shown below. The battery symbol will show progress on the display.

Device will be fully charged after 10 hours.



MOUNTING

1. Screw antenna to top of device → Finger tight
2. Choose **suction cup** or **magnetic mount**
3. Assemble mounting arm, device, and mount
4. Tighten central knob to secure ball joints



To mount the crane device, use one of the provided mounting system.

Suction Cup

Recommended: Smooth, non-porous surfaces such as glass or polished metal.

1. Clean the surface where the mount will be placed to ensure it is free of dust, oil, or moisture.
2. Press the suction cup firmly against the surface.
3. While holding pressure, flip the locking lever to create a strong vacuum seal.
4. Ensure the mount is secure by gently tugging on the receiver

Magnetic

Recommended: Ferrous metal surfaces such as steel control panels or cab structures.

1. Identify a clean, flat metal surface inside the crane cab.
2. Carefully position the receiver with its magnetic base against the surface.
3. Let the magnet snap into place. Ensure it sits flush and does not shift during operation.

TECHNICAL SPECIFICATIONS

Lanyard Device	
Battery Type	Li Po
Battery Voltage	3.7v 500mAh
Connectivity	LoRa 921.5 MHz
Operating Temperature	-10°C to 50°C
Ingress Protection (IP)	IP54

Crane Device	
Battery Type	Li Po
Battery Voltage	3.7v 3540mAh
Connectivity	LoRa 921.5 MHz
Operating Temperature	-10°C to 50°C

OPERATION PAIRING PROCESS

Note: Only one crane device should be in pairing mode at a time.

Wireless Pairing

1. Contact crane operator via radio to begin
2. Hold **PAIR** on lanyard for 3 seconds → LED flashes **blue**
3. Notify operator when ready
4. Operator presses **PAIR** on receiver → Display flashes (10s)
5. Lanyard UID appears in available slot
6. Operator confirms UID with user
7. **Devices are now paired**

Wired Pairing

1. Ensure Lanyard and Crane devices are switched on
2. Connect the lanyard USB cable to the crane device and connect the lanyard
3. Devices will pair automatically
4. Remove lanyard USB cable from the crane device and store

****Important: Confirm Pairing Before Each Lift****

Before operating the system, confirm that the lanyard device is paired. Press the PAIR button and wait for the green LED, which indicates a successful connection.

Do not begin any lift until the green LED is visible — this confirms the system is ready for safe operation.

UNPAIRING PROCESS

Lanyard Device

1. Hold **PAIR** for 4 seconds → LED **flashes yellow**
2. LED turns **solid yellow** (2s) to confirm unpairing
3. Crane device beeps once to signal disconnection
4. Confirm UID is removed with crane operator

Crane Device

1. Use **dial** to select UID → Hold **UNPAIR**
2. Selected UID **flashes** during unpairing
3. UID is removed from display
4. Lanyard **flashes red (10s) + 3 beeps** to confirm disconnection

OUT OF RANGE

Lanyard Device

If out of range:

→ LED flashes **red (10s) + 3 beeps**

When back in range:

→ LED flashes **green (5s) + 1 beep**

Crane Device

If lanyard is out of range:

→ Corresponding UID connection bar flashes until reconnected

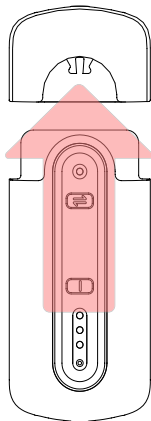
TRIGGER AN ALARM

In an emergency, **pull sharply** to detach the breakaway clip
→ This triggers the alarm

All **LEDs flash red and alarm sounds**

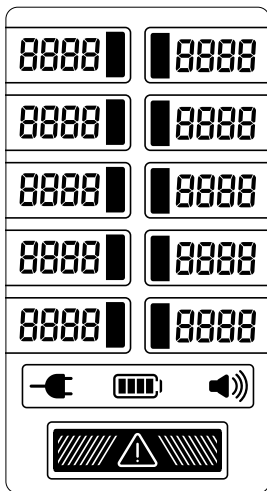
The crane device is immediately notified

Alarm will **automatically stop after 1 minutes**



To stop or cancel the alarm - reattach the breakaway clip.
This will stop the alarm signal to the crane device.

Note: Do not rapidly detach and reattach the breakaway clip.



Crane Device Response

When an alarm is triggered:

→ Display flashes

→ Audible alarm sounds

The crane operator must:

- **Immediately stop all crane movement**
- **Follow site emergency procedures**

MAINTENANCE & CARE

- **Charge** daily after use or as needed
- **Inspect** device and connection before each use
- **Clean** with a dry cloth — do **not** immerse in water
- **Store** in a cool, dry place
- **Avoid** prolonged exposure to direct sunlight
- Lanyard device should be replaced every 3 years to ensure optimal battery life

TROUBLESHOOTING

Issue	Possible Cause	Solution
Device does not turn on	Battery is depleted	Charge the device fully
Top LED (Lanyard) or LED (Crane) is solid red on startup	Critical error during self-check	Hold POWER for 12s to reset. If red persists, contact support
Lanyard stuck in alarm state	Breakaway clip triggered repeatedly	Power off device or wait for 2-minute timeout
Lanyard not pairing	Device may be paired to a different system	Unpair the device (hold pair for 4s) and re-pair to a crane device

COMPLIANCE & WARRANTY

This device complies with all applicable ACMA requirements. RCM compliant.



Battery tested to IEC 62133-2 and UN38.3 transport standards

The device complies with EN 5503

Dispose of electronic components in accordance with local e-waste regulations.

Warranty*: 12-month limited warranty from date of purchase
Covers manufacturing defects only Physical damage or tampering voids warranty

Subject to applicable laws.

Support Contact: Email: support@thebuddiesystem.com

Designed & Engineered in Australia
Made in China

IMPORTANT LEGAL NOTICE:

This manual (including, to avoid doubt, this section titled 'Compliance & Warranty') is subject to the terms and conditions set out in the customer's supply or purchase agreement in respect of The Buddie System device, and all applicable laws.

To the extent of any inconsistency between this manual and that supply or purchase agreement, the terms and conditions of that agreement shall prevail.

Without limiting the above, and to the maximum extent permitted by law, Doggin Safe Pty Ltd (ACN 672614952) is not liable to the customer for any loss or damage which, in Doggin Safe Pty Ltd's reasonable opinion, is attributable to a failure by the customer to use The Buddie System in accordance with this manual and any other instructions provided by Doggin Safe Pty Ltd from time to time, or to implement and maintain suitable, industry standard safety systems and protocols.

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