

User guide



Quaildigital

PRO7 HEADSET SYSTEM

These installation instructions are aimed at a person with a reasonable level of technical competence and familiar with the safety precautions relevant to the use of electrical and electronic equipment. You should not attempt to install this system without the relevant level of expertise.



This system operates with a 48v DC power supply. To maintain warranty, only Quail Digital approved parts should be used.

If your installation requires more than one Base you will require Cat5 cable, two or more RJ45 plugs and crimping tool - and a LAN + RJ45 network cable tester.

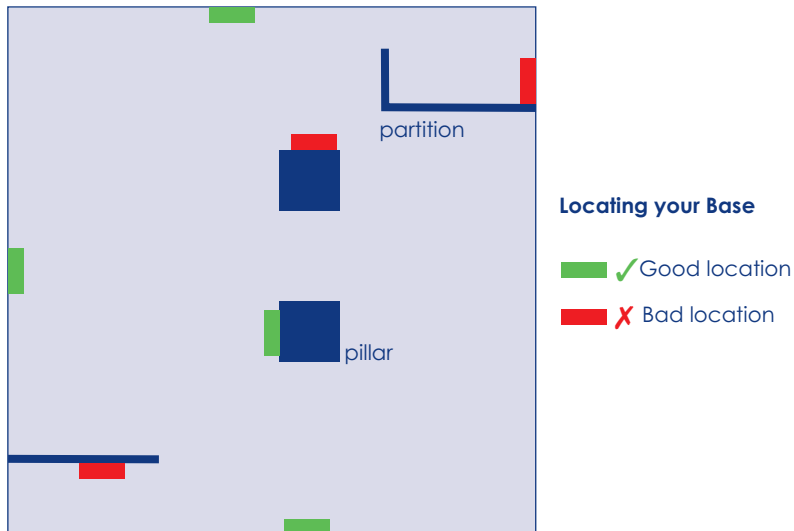
Installing the system

The Base Station (Base) is a license-free DECT wireless transceiver using a 48v DC external power supply. The system can be expanded with multiple Bases, up to a maximum of 20, in a closed communications network linked by Cat5 cable.

The typical range of the Base is up to 50 meters internally and up to 100 meters in open spaces. Internal walls, stairwells, partitions, building fabrics and room height can affect range.

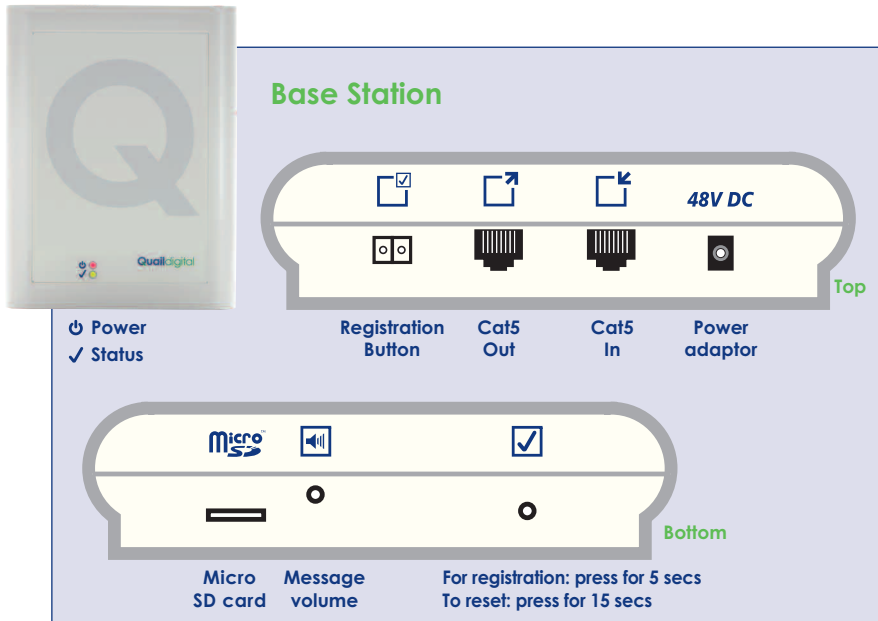
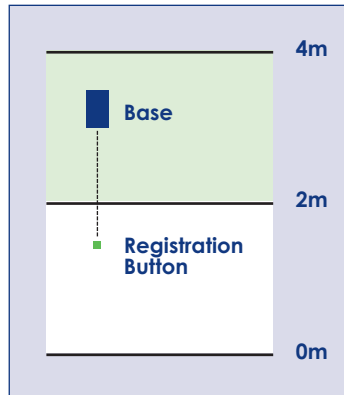
Installing single or multiple Bases

The diagram below illustrates possible locations to mount your Base. As a tip always locate a Base where it has maximum direct sight of the area you want to cover. Before fixing your installation permanently, you could also place the Base in temporary locations around the premises to test and optimize coverage. You should also identify the location of power sockets and routes for Cat5 cables if you intend to use multiple Bases.



If you plan to mount the Base higher than 2m above floor level consider installing a **Registration Button** - it should be wall-mounted underneath the Base so you can see the Base LEDs during the registration process.

The Registration Button is used to activate the registration process (press for five seconds) and to reset the entire network (press for 15 seconds).



Rules when installing multiple Bases on the same network

- Ideal height for Bases is between 2 and 4 meters above floor level.
- The maximum cable length between any two Bases should not exceed 100m.
- The maximum cable length between two power sources should not exceed 200m.
- The maximum number of Bases a single power supply should support is four.
- When 'mapping' the premises, as a general rule place the next Base 10m beyond the point where the headset loses range from the previous Base.
- It is good practice to label the Cat5 cables that go into the top of the Base IN and OUT respectively to avoid mis-connection at a later date.











Useful Tip Power to the Bases should use a constant 24hr power outlet. If one or more mains circuits is switched off, it may affect the operation of the entire Base network.









Follow the Type B wiring protocol for all RJ45 plugs

Colour code as shown right.



The two LEDs on the front of the Base indicate its status, as below:

POWER LED	STATUS LED
  Booting up	  Synchronization signal receiving OK
  Base is master and ready	  Active call or calls on this Base
  Base is slave and ready	

BOTH LEDs FLASHING	CORRECTIVE ACTION
  Power too low to boot up  	<p>Check the individual power supplies on the network for possible failure; or being switched off; or consider adding an extra power supply to the network</p>
  Base in registration mode  	<p>The system will time-out of this mode in 10 minutes but you can press the registration switch to exit the registration mode manually</p>

Positioning the charger

The Headset Charger should be positioned on a worktop and plugged into a socket that is a constant 24hr power outlet. The charger should be located within range of a Base so that headsets remain active at all times.

Return headsets to the charger when not in use. Charge time is approximately 2.5 hours. When charging, the blue light on the headset will flash every five seconds. When fully charged the blue light is constant.

Headsets will last up to 8 hours between charges, slightly less in TalkLock mode. 3 beeps every 60 seconds indicate the battery is getting low.

Registering and using headsets

Each headset needs to be registered to the system for the first time before use. The system has the capacity for 30 headsets. To register one or more headsets, follow this procedure:

1 Make sure the new headset has a charged battery (blue LED flashes every five seconds).

2 Make sure all the headsets in use with the system are in range of the Base. If a headset isn't in range of the Base during the registration process it will be deleted from the system.

3 Put the Base in 'registration mode' by pressing the Registration Button on the Base, or by pressing the wall-mounted Registration Button, for five seconds. On the Base both LEDs should be flashing green.

4 Place the new headset to your ear, press the large silver button and volume toggle down for three seconds. Wait for the beeps to change their frequency and tone to one bleep every second.

5 A three second long bleep signifies successful registration. You may also hear a double bleep tone that will indicate it is ready to use.

6 As soon as a headset is registered, it is ready to use. Press the Registration Button again to exit the registration process or leave it to time-out after 10 minutes.



Audible tones for different headset status and functions:

STATUS	STONE
Registration mode	1 beep every second
Out of range	2 beeps every 10 seconds
Battery low	3 beeps every 60 seconds
Registration complete	1 long beep (3 seconds)
Busy tone	3 long beeps
Headset not registered	1 beep every 3 seconds
Base capacity full	As per busy tone
Call drop	Bloop-beep tone

Volume There are five volume settings. Use the toggle at the rear of the headset to adjust volume by pressing upwards for each step.

Speech The headset can be used in two speech modes:

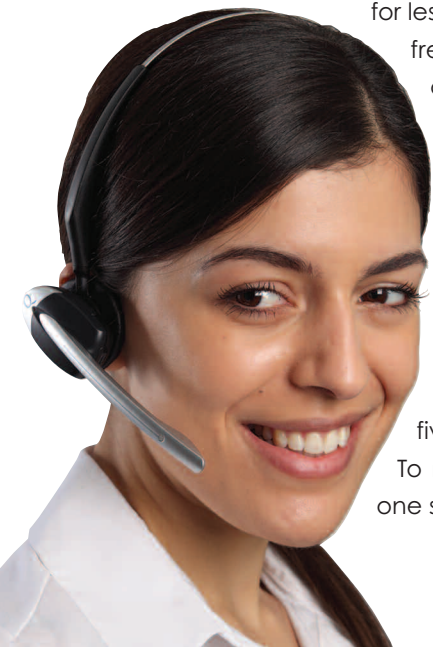
- **TalkLock** This mode is hands-free. To activate, press the silver button for less than one second - the headset is then hands-free. To de-activate it, press the silver button again. This will shut off the microphone.

-**PTT** Press the silver button while you are talking, then release when finished.

Up to six users can speak at any one time. All headsets hear all the time.

Best practice: only use TalkLock if you need to be hands-free. Use PTT for routine communication.

If a headset is on TalkLock it will time-out after five minutes if the user hasn't spoken in that time. To re-engage TalkLock press the silver button for one second.



Product specifications

BASE STATION

Operating frequency

1.88-1.90 GHz EMEA, Asia,
1.910-1.930 GHz North America

DECT transmission power

250 mW EMEA, Asia
125 mW North America

Headset capacity

Up to 30 headsets all listening with a
max of 6 simultaneous participants

Multiple Bases (max)

Network via Cat5 cable, up to 20 Bases

Expansion with Cat5 cable

max 100m cable length between Bases

Power requirements

100V -240v AC voltage sensing

Dimensions HxWxD

170 x 130 x 35 mm

Weight

200g



REGISTRATION BUTTON

Function

Activates registration and reboot functions
on sites where Base is out of reach

Cable requirements

2 core cable

Dimensions HxWxD

52 x 63 x 87mm

Weight

10g



ACCESSORIES



NECKBAND Q-RH7NB



HEADBAND Q-RH7HB



BATTERY Q-RH7BAT



HEADSET

Q-P7HS

Operating frequency	1.88-1.90 GHz EMEA, Asia, 1.910-1.930 GHz North America
Operating modes	TalkLock and PTT as standard
Microphone	Noise cancelling, electric mic
Battery capacity	6 hours TalkLock, 8 hours PTT
Charge time	2.5 hours
Volume control	5-stage, slide button up/down
Battery (part number)	Lithium Ion 3.7v (Q-RH7BAT)
Weight	50g

8 PORT CHARGER

Q-P7CH

Capacity for headsets	8 port
Charge mode	Fast charge
Mounting	Desktop only
Power requirements	12v external power supply
Dimensions HxWxD	110 x 460 x 100 mm
Weight	1400g



POWER ADAPTER Q-48V



HEADSET CHARGER SHELF
Q-P7SHELF

HYGIENE COVERS
Q-RH7HC Box of 200

IC ID: 6402A-Q-P7BS

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC ID: UDD Q-P7BS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



The logo for Quaildigital, featuring the word "Quail" in blue and "digital" in green, with a stylized green quail head icon integrated into the letter 'Q'.

www.quaildigital.com