

Designed in conjunction with a prestigious NHS Trust widely regarded as the leading light in the provision of high-intensity dementia care

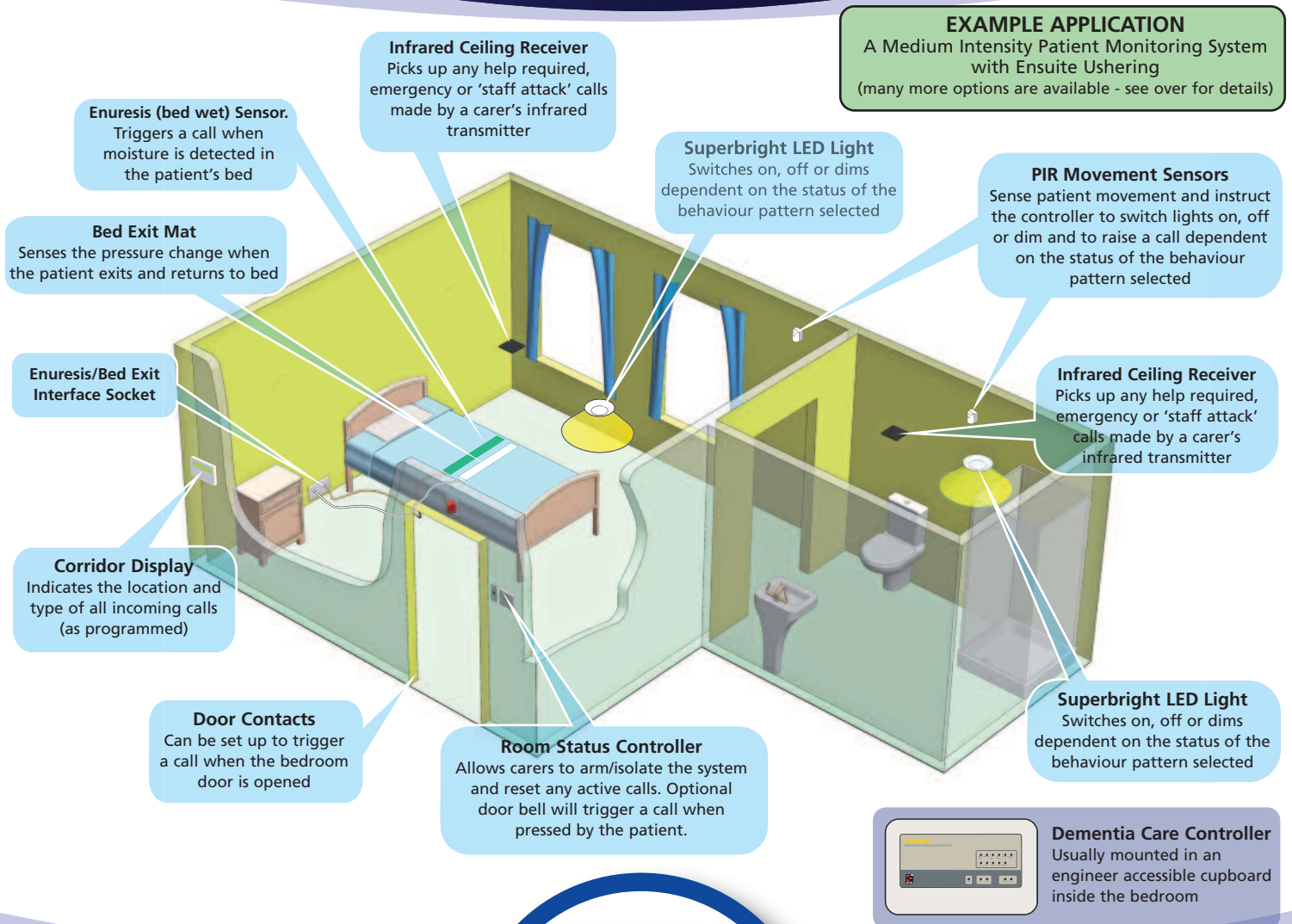
# Quantec

## Dementia Care Controller and Ancillaries

Our new Quantec Dementia Care Controller allows care providers to enhance the level of care they provide for patients suffering from dementia, Alzheimers, incontinence and other degenerative illnesses.

Engineer programmable to suit the exact requirements of an individual patient/bedroom, it includes all of the inputs, outputs, timers and power needed for the connection of PIR movement detectors, an enuresis sensor, bed exit mats, low voltage LED lighting, door monitoring contacts, slave infrared ceiling receivers, slave overdoor lights, a room status controller and more.

The controller comes with a number of pre-set DIP-switch selectable configurations, all geared towards giving patients the freedom and dignity they need to live their lives as normally as possible with as little intervention from carers as their condition will allow.



- Can be configured to automatically switch lights on and off when movement is detected to safely guide patients to and from ensuite areas
- Provides clear and concise indication of room status data at ALL relevant Quantec displays (e.g. Bedroom 1, Bed Exit)
- All room/patient call activity is logged at the main Quantec Controller for optional output to our Quantec Surveyor data management software



- Comes with 10 pre-set patient monitoring configurations including high-intensity, medium-intensity and ensuite ushering.
- Easily adapted to the changing needs and ongoing behaviour patterns of Dementia and Alzheimer sufferers
- Many of the components shown can be easily added to existing Quantec systems
- All network devices are designed and manufactured in the UK

## QT630 Dementia Care Controller

- Includes all of the inputs, outputs, timers and power required for the connection of PIR movement detectors, an enuresis sensor, bed exit mats, low voltage LED lighting, door monitoring contacts, slave infrared ceiling receivers, slave overdoor lights, a room status controller and more.
- Features two PIR sensing channels and two LED lighting circuits
- Sends detailed room status data (e.g. BEDROOM 1, ENURESIS CALL) to ALL Quantec displays
- Includes space for 1 x 12V 7Ah battery (providing up to 8 hours standby time)
- All room status/call system activity data is sent to the main Quantec Controller for output to our Surveyor data management software
- One QT630 required per dementia bedroom (typically located in the bedroom in an engineer accessible cupboard)
- Requires a 230Vac mains supply and connects to Quantec via its two network connections
- Can be programmed to suit the exact requirements and/or behaviour patterns of an individual patient/bedroom via a number of DIP-switch selectable configuration options, including:-



**3 x Medium Intensity Monitoring configurations:** These options utilise a bed exit mat and timers to switch lights on as soon as the patient gets out of bed and allows them a period of 4, 6 or 8 minutes before generating a call. Should the patient return to bed within the allocated time period, the system will return to normal and the lights will go out without the need for staff/carer intervention.

**3 x Medium Intensity/Ensuite Ushering configurations:** These options utilise a bed exit mat, PIRs and timers to automatically switch lights on and off when movement is detected and to safely guide patients in and out of ensuite areas. The length of time the patient is allowed out of bed before a call is generated varies depending on the configuration/behaviour pattern selected. Should the patient return to bed within the allocated time period, the system will return to normal and the lights will go out without the need for staff/carer intervention.

**4 x High Intensity Monitoring configurations:** These options utilise PIRs to detect patient movement and switch lights on / generate a call the moment the patient gets out of bed.



### QT638 PIR movement sensor

Can be programmed at the QT630 to make a call when movement is detected (e.g. when a patient exits his or her bed) and to automatically switch lights on to ensure their safety. A maximum of two QT638s can be connected per PIR channel.



### QT639 Ultrabright 3W LED lamp

Can be programmed at the QT630 to switch on, off or dim as per the configuration/behaviour pattern selected. Timer options are also available to guide patients in and out of ensuites. Up to two QT639s can be connected per lighting circuit. LED housings are not included.



### QT637 Enuresis/bed exit interface socket

Includes two remote jack sockets, one for a QT635 enuresis sensor and one for a QT633 bed exit mat or other ancillary calling device. Fully isolated and medical directive compliant. Requires a PP3 battery (not supplied).



### QT635 Enuresis/Bedwet sensor

Triggers a call when moisture is detected in a patient's bed. Typically placed between the bedsheet and mattress. Measures 80cm x 12cm and connects to a QT637 Enuresis/bed exit interface socket. Can be wiped clean using a non-caustic sanitiser making it suitable for multiple use.



### QT636 Interface unit

Includes a remote jack socket that can be configured for normally open or normally closed operation. Typically used to connect QT633 bed exit mats or other ancillary calling devices to systems that do not wish to use Quantec's enuresis (bed wet) sensing function.



### QT633 Bed exit mat

Senses the pressure change when a patient exits or returns to bed. Measures 80cm x 10cm and connects to a QT637 Enuresis/bed exit interface socket or a QT636 interface unit. Typically placed horizontally between the bedsheet and mattress.



### QT634 Chair exit mat

Senses the pressure change when a patient exits or sits back down on a chair. Measures 40cm x 25cm and connects to a QT637 Enuresis/bed exit interface socket or QT636 interface unit. Note that QT644 floor pressure mats are also available.



### QT412 Infrared Transmitter

Allows staff to call for extra assistance or signal an 'attack' situation via a QT302RXRS infrared ceiling receiver. Typical transmitting range is 10m line of sight. Single-way (QT424/1) & 10-way (QT424/10) battery chargers are also available



### QT302RXRS Slave IR Receiver

Designed to accept calls for extra assistance and/or 'staff attack' notifications generated by a member of staff's QT412 infrared transmitter. Typical receiving range is 10m line of sight. Max. 3 slave ceiling receivers per QT630



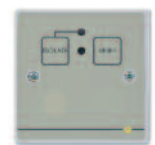
### QT606 Slave Overdoor Light

Indicates the status of the QT630 master dementia controller by pulsing red and/or green as appropriate. Allows staff to see at a glance if assistance is required. Pulsing frequency and light sequence changes/increases with call level



### QT608C Corridor Display

Designed to indicate incoming calls in corridors, staff rooms, etc. Shows call type (e.g. PIR Call), location (e.g. Bedroom 2) and depending on the device making the call the name of the person calling. Connects anywhere on the two wire Quantec network.



### QT631M Room Status Controller

Allows staff to isolate certain functions (e.g. PIRs during daytime hours), to put the room into 'Presence' and to reset calls using a magnetic swipe key. Can also be interfaced to a doorbell unit (when the patient presses the doorbell a call is activated). QT631K Keyswitch versions also available.