# Application Notes

# UBL / UBL-EBF (v10 software)

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# Installation

1. Apply power.

2. Use the Future Automation IR remote for all the following steps

3. **The buttons for all [STORE] sequences must be pressed sequentially with no more than 2 seconds between each press**

4. Set the maximum telescope height – the unrestricted maximum height of the UBL telescope is. Most installations will require a lower custom height. To trim the maximum height:

    i. Position the telescope at the required height using [IN], [OUT] and [STOP] on the IR remote.
    ii. Press the [STORE], [OUT]. The new telescope height is now configured.
    iii. If you make a mistake and need to set a higher viewing position, press [STORE], [STOP], [OUT]. This will clear the programmed height and revert to the default maximum extension
    iv. Test your new height using the [IN] and [OUT] buttons

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# IR & RS232 Commands

- RS232 commands are all terminated with carriage return but no line feed. In Crestron this is represented by \r
- IR sequences involving multiple key-presses require each successive key to be pressed within 2 seconds

## *User Control*

| IR | RS232 | Action | Comments |
|----|-------|--------|----------|
| IN | fa_in | System fully in | |
| HOME | | Moves to telescope extended, swivel centred position | Swivel moves to centre if already rotated |
| OUT | | Similar to HOME but swivel will not move | Swivel will not move |
| STOP | fa_stop | Stop mechanism | |

## *Configuration*

| IR | RS232 | Action | Comments |
|----|-------|--------|----------|
| STORE OUT | | Set maximum telescope height | Stores current telescope height |
| STORE STOP OUT | | Clear maximum telescope height | Reverts to physical limit of telescope |
| STORE STORE HOME | | Factory Reset | Telescope height and viewing angles must be reconfigured after performing a factory reset |
| STORE STORE > | | Swivel recovery | See above |

## *Contact Closure available on request*

The standard Under Bed Lift control unit does not provide direct contact closure control. A separate external module is available upon request providing Contact Closure to RS232 conversion, allowing switched control of all UBL models.

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