A motorised mechanism to reveal a display from the ceiling. This version hinges down by up to 100 degrees.

The mechanism is fixed in place before the ceiling is finished. Supplied with MDF plaster edging to neatly plaster into the ceiling.

The control system can be operated via infra-red, RS232 or contact closure inputs.

Speakers can be added with the use of standard speaker mount brackets.

(If required please specify during ordering process.)

See overview technical sheet for details on other products in the range.

### Model Code | CHR4-RES
---|---
Max Screen Size | 1130 [44.5] W x 680 [26.8] L x 100 [3.9] D
Max Screen Weight | 60kg [132lbs]
Approx Mechanism Weight | 100kg [220lbs]
Environment | Residential
Colour | WHITE - RAL9910 Satin Finish
Control System | Accessible by internal access hatch
Mechanism Dimensions | 1624 [64.0] W x 1065 [41.9] L x 210 [8.3] D

NOTE: This mechanism is not designed to accommodate additional panelwork on the main hinging tray. Please see Tech Note - CHR-RES-AP Addon Panel Technical Note for more information.

See CAD files for more dimensional information.
OPTION 1 - FIXING TO WOODEN BEAMS

LOAD BEARING

CABLE ROUTING HOLE
32 [1.3] MIN (BOTH SIDES)

SIDE BATTEN
FOR PLASTERBOARD
/GYPROC FIXING

12.5 [0.5]
PLASTERBOARD/ GYPROC
BORDER

MECHANISM

15 [0.6] MDF PLASTER
EDGE TRIMS (SUPPLIED)

M6 x 16MM SS POZI BOLT (SUPPLIED)

VIEW FROM BELOW

SECTION A:A

PLASTERBOARD / GYPROC
STRUCTURAL CEILING JOIST

ADDITIONAL MOUNTING
BLOCK

REAR
BATTEN

MDF PLASTER EDGE TRIM

3 [0.1] FINISHED CEILING PLASTER SKIM

PLASTERBOARD / GYPROC

US   www.futureautomation.net         tel: +1 (603) 742 9181
UK   www.futureautomation.co.uk      tel: +44 (0) 1438 833 577
OPTION 2 - SUSPENDING FROM CEILING STRUCTURE ABOVE

- **TIMBER FRAME TO SUPPORT PLASTERBOARD / GYPROC AND MDF PLASTER EDGE JOINT**

- **Opening Width**
  - 64.0 \( \pm 0.2 \)
  - 1624 \( \pm 0 \)

- **Representative Ceiling Fabric Support Structure**

- **Allow for cables to be routed into mechanism in this area (both sides)**

- **12.5 [0.5] Plasterboard / Gyproc Border**

- **MECHANISM**

- **15 [0.6] MDF Plaster Edge Trims (Supplied)**

- **M6 x 16mm SS POZI Bolt (Supplied)**

- **Suspended Plasterboard / Gyproc Ceiling**

- **3 [0.1] Finished Ceiling Plaster Skim**

- **Additional Timber Framework Around Opening**

- **MDF Plaster Edge Trims (Supplied)**

- **Concrete / Metal Floor Structure**

- **Upto 12 [0.5] Threaded Rod**

- **Mounting Bracket can be rotated to suit installation**

- **Section B:B Scale 1:3**
**INSTALLATION PROCEDURE**

1. **Mechanism Installation**

   THE INSTALLATION PROCEDURE IS CARRIED OUT IN THE SAME WAY FOR OPTION 1 OR OPTION 2

2. **MDF Plaster Trim Installation**

3. **Plastering**

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**DETAIL A**

SCALE 1 : 5

- 28 No. OFF SS M6 x 16MM POZI (SUPPLIED)
- 28 No. OFF MDF SCREW (NOT SUPPLIED)

**DETAIL B**

SCALE 1 : 5

- 3 [0.1] FINISHED CEILING PLASTER SKIM

**FINISHED CEILING**

SUITABLE FIXING (NOT SUPPLIED)
Cable Routing

Cables for the screen can be routed in from both sides, allowing for power and signal cables to be separated when entering the mechanism.

The opening on both sides is MIN. 32mm [1.3"] in diameter allowing for multiple cables to be routed to the screen.

A power outlet mounting plate is supplied in the right hand gearbox allowing for UK and US power outlets to be wired directly into the mechanism.

Ensure there are no obstructions around the power outlet mounting plate, between the mechanism and the mounting joist / ceiling structure.

(Dimensions shown from rear of mechanism and underside of ceiling finish)
Mechanism Width: 1624 mm
Total Mechanism Height From Underside of Finished Ceiling: 210 mm
Max TV Width: 1130 mm
Max TV Height: 680 mm
Mechanism Length: 1065 mm
Screen Thickness: 7.8 mm

Fixing Detail:
Mechanism mounted on M12 [0.5] Studding or fixed to underside of the ceiling joist structure, both using the mounting brackets installed on mechanism as standard.

See CAD files for more dimensional information.