Dual panel Automated Door Drive - Two Panel up - Closed Flush

- Two panels both going up, typically used for hiding TVs
- Doors tilt back approx 5 inches and move up behind a fixed panel.
- When closed, the doors are flush with their surrounding panels.
- The fixed panel above the door must be chamfered so that the movable doors can tilt back properly.
- The door drive is a motor tube with lifting straps. Starting and stopping points for the door are set at installation.
- Doors are not included. System includes tracks, motor drive and controls.
- Controls available include IR remote, RFQ remote, low voltage switch, 120 volt switch and Home Automation Integration.
- Custom guides and roller assemblies available as needed
Overall Layout

Lifting Straps

The brown shaded area is the cabinet and trim around the movable doors

Lifting Straps

Doors tilt back about 5 inches as they travel up

Guides can be moved out laterally to further conceal with simple plywood roller asm extensions (not included)

1/8 inch gap between door and trim

1/8 to 3/16 gap

60 degree chamfer

Slack required in bottom strap (allows top door to move first)

Guides and bottom door at same level

Guides hidden by trim next to opening

StorageMotion, Inc.
www.storagemotion.com
Guides

Motor Tube Placement
Side View

Motor tube

Approximate dimensions

10 (minimum)

6 to 8

2 to 4

Guides

Doors in open position

Figure 1
Guide Placement

Top View

Guides

1.5 in

5 to 6 in

Face Frame

Door

1/8 in thick spacer

1 in

2 in

1/8
Roller Assembly

Roller Assembly must extend 3/8 inch beyond door.

Roller Assembly integrates with guides to control the door travel.

Shims between door and roller assembly can be used to keep door flush.

Front of Door
Guide Placement (Optional Approach)

Top View

- 1/8 in thick spacer
- Plywood extensions (not included)
- 1 in
- 5 to 6 in
- 3.5 in (min)
- 1.5 in

StorageMotion, Inc.
www.storagemotion.com
Length of guides for a 2 panel door is 1.5 times the height of the door opening.

Length of roller assembly depends on height of the door.

5 to 6 inches

Padded slot for roller
Guides – are used to control the door articulation as it moves up and down.

Guide dimensions are usually 5 or 6 inches wide by 1.5 times the height of the opening and 1.5 inches thick.

Only a partial guide section is shown.
Motor Tube Mounting Brackets

Right side steel motor brace Secures with 2 to 4 screws

Left Side idler bracket - 1.75 dia

6” to 8”

Motor head

Motor tube – 2” dia

Secures with 3 screws

Front View Motor end

Front View NON - Motor end
Lifting Strap brackets

Strap

Clip
rotates on
this axis

Single hole
metal clip

1”