

Christie[®] Entero HB Series front-access cubes

Technical Frequently Asked Questions (FAQs)

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FAQ

1.1 Why choose front-access cubes versus typical rear-access cubes?

Christie® front-access cubes can save space in tight physical environments. Typically, rear-access cubes require a minimum of 18" of clearance behind the cube wall to leave ample room for servicing and maintenance which must be performed behind the cube. With front-access cubes, servicing and maintenance can be performed from the front of the cube so the cubes may be installed directly against a back wall. Front access also allows for easier access to the cube for servicing and maintenance.

1.2 What are the physical and visual differences between front-access cubes and our current rear-access cubes?

The new front-access cubes are based on the same structural platform as our rear-access cubes so they are similar in appearance.

The unique features of the front-access design include:

- The screen and cube assembly has a hardware mechanism which allows the screen to fold up, allowing service access from the front
- The six-axis alignment system is motorized and controlled remotely to allow fine adjustment of the image geometry on the screen. This is controlled via remote keypad (provided) or an external computer.
- The screen weight is reduced to make installation/set-up easier and to reduce the loading on the cube when the screen is extended
- Within the cube, there are interlocks which disable the function of the motorized alignment system when the screen is released. This is for safety/regulatory purposes
- On the back panel of the cube, there is a small "bump" which protrudes approximately 10cm (4") behind the cube. Within the bump is the motorized mechanism. The area surrounding this bump allows for ventilation and cooling at the rear of the cube
- The on-screen display (OSD) and web user interface provide additional features and functions for screen release and 6-axis alignment

1.3 Can the front-access cubes use the same pedestals as the rear-access cubes?

No. Although the current pedestals are structurally similar, in order for the cubes to be installed against a back wall, the pedestals must allow access from the front to support installation and assembly of the cubes. The front-access pedestals include 2 simple latches which allow the front panel to be temporarily removed to allow access from the front.

FAQ

1.4 Are screens shipped from the factory with the cubes or are they shipped separately?

For front-access cubes, the screen is shipped with the cube as a set. Assembly of the screen to the cube occurs during installation which only takes a few minutes. The cube and screen set is factory aligned and tested prior to shipment, helping to reduce installation time on site. If further adjustments are required on site, this can easily be performed at that time.

type. Please refer to the source supplier to understand how to configure the source properly to ensure proper frame lock in the source playback system.

1.5 When I place an order, what is required?

Your Christie sales representative will ensure the correct components are ordered for the system. For each cube, you will need to order the front-access cube (which includes the screen), the motorized adjustment accessory, pedestals (optional) and the LED02 light engine.

1.6 Can third-party custom pedestals be used with Christie front-access cubes?

Yes. Christie provides CAD drawings of our cubes and pedestals to our partners, showing dimensional and interface requirements to integrate the design of third-party pedestals with Christie front-access cubes.

Note: For installations where the cubes are mounted against a back wall, the pedestals must be designed to allow access from the front to enable installation. Christie can also provide customized pedestals to meet your specific needs and requirements.

1.7 Is the motorization unit removable?

Although the motorization unit can be easily removed from the light engine, it is intended to remain permanent with the cube. This makes set-up easier and faster for the initial installation, as well as if/when future service or maintenance is required.

1.8 If a screen or cube needs to be replaced, are both available as separate service components?

Yes.

1.9 Can the cubes be installed directly against a back wall?

Yes. The front-access design allows the cubes to rest against a back wall. The design also allows for ventilation space at the rear of each cube to allow for cooling.

1.10 What is the screen gap (image to image) for front-access cubes?

1.7mm nominal at 25°C.

FAQ

1.11 What cube sizes are available in the front-access design?

Initially, 70" HD front-access cubes are available. Other cube sizes will become available throughout 2014. Please contact your Christie sales representative for more information.

1.12 What are the major benefits of the Christie front-access cube design over other designs available on the market?

There are several:

- While other manufacturers recommend 2mm for nominal screen gap, Christie's nominal screen gap is smaller at 1.7mm
- Christie does not use multiple securing clips around the screen to hold it together so that no pixels or display information is hidden behind screen clips for each cube.
- Christie provides remote control release of the screen using an innovative solenoid activated screen release design within the cube. This is activated via a remote keypad or terminal. Some other cube designs use thin latches located between screens to manually de-latch each screen for release. For the Christie screens, there are no obstructions or devices between screens, allowing a tighter gap and smoother operation.
- Christie uses open ventilation at the back section of each cube to allow for cooling, working well with heat management and HVAC systems. This promotes improved air flow throughout rather than channeling cool air only from the bottom pedestals through to all cubes above.

1.13 How many front-access cubes can be stacked vertically?

Structurally, the design and installation is similar to our rear-access cubes. The cubes themselves can be stacked up to 5 rows high on custom (enhanced) pedestals or 3 rows high with the standard pedestal.

1.14 Do I need external supports for the cubes?

Just like rear-access cubes, the cube wall must be tethered to a back wall or ceiling to ensure it does not tip under extreme circumstances. Also, as a further safety measure, lag bolts can also be used to secure the pedestals to the floor.

1.15 Can an existing rear-access cube installation be converted to a front-access installation?

To convert to a front-access installation would require replacement of the cubes, screens and pedestals. If you're replacing 70" HD cubes that use the RPMHD-LED02 light engine, that light engine can be re-used with the front-access cube. A motorized alignment accessory can be attached to the light engine to enable geometry alignment.