Titan 9000

Modular Card-Based Multiviewer

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MODULAR CARD-BASED MULTIVIEWER
WITH CASCADING CAPABILITY

——HDMI / DVI / VGA / YPbPr / CVBS / SDI (3G / HD / SD)

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Titan 9000 Feature Highlights

Modular card-based multiviewer; compact 1RU chassis houses up to 4 independent multiviewer cards, each features 4 auto-sensing inputs and a multiview output.

Mix and match of signal; various card types ranging from HDMI/DVI/VGA/YPbPr to CVBS and 3G/HD/SD-SDI, each with its own full HD 1080p output.

Extensive video controls include free-scaling windows up to full screen size, PiP layering, flexible layout configurations and OSD settings.

Internal cascade architecture allows grouping of any 2, 3, or 4 cards for displaying 8, 12, and 16 image/video on one screen simply by drag-and-drop on the GUI.

Scalable configurations expand multiviewing beyond 16 sources; cascading multiple Titan 9000 allows up to 160 image/video sources to be monitored on one display.

Mission-critical reliability through field-serviceable modules that truly achieve no-single-point-of-failure operation; redundant power supply and power failure alarm dedicate to critical monitoring applications.

Multi-screen display driven by dedicated output module; supports 1x2 and 2x2 video wall (4Kx2K display), concurrently monitored at the local console and HDBaseT extension 100 meters away.

Dynamic layout and system configuration via Windows-based control software. Front LCD panel provides an alternate control interface without the need of software or computer.

Rich integration with third-party production systems fulfills complex monitoring requirements in need of effective tally and label/UMD management.

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Titan 9000 Overview

1   LCD panel displays output status, configuration settings, and recall of presets

2 Control buttons to navigate through configuration settings
    -Choice of controlling Titan 9000 via the LCD panel settings
    -Advanced layout control and configuration requires the use of Windows-based software Phoenix-Q over Ethernet
    interface

Titan 9000 Overview - Modular I/O

* HDMI/SDI interface supports embedded audio

Titan 9000 - 2H2V card

1. DVI and HDMI input ports for HDMI, DVI, VGA, or YPbPr video source signal

2. HDMI output port for HDMI or DVI monitoring

Titan 9000 - 4H card

3. HDMI input ports for HDMI and DVI video source signal

4. HDMI output port for HDMI or DVI monitoring

Titan 9000 - HOB card

5. HDBaseT output ports over CAT6 cable (CAT5e or higher) to build a dual-screen or 2x2 video wall

6. DVI output ports for HDMI or DVI signals in building a dual-screen or 2x2 video wall

Titan 9000 - 3G Plus-1 card

7. BNC connectors for SDI (3G/HD/SD) / CVBS (NTSC/PAL) video source signal

8. HDMI output port for HDMI or DVI monitoring

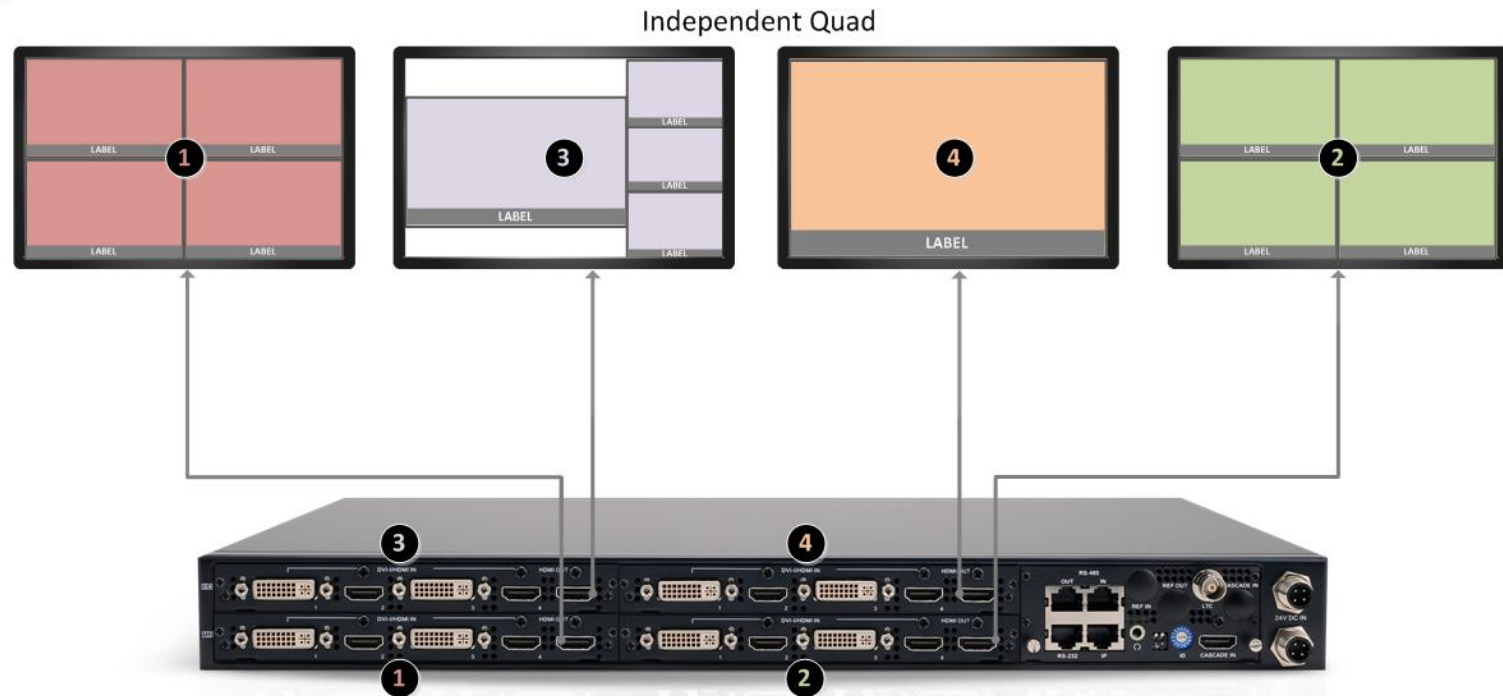9. BNC connector for SDI output (1080p/720p; sources with HDCP will not be converted to SDI)

1 RS-485 input/output ports for transmission of control signals between cascaded units

2 RS-232 port for connection to third-party router, production switcher or controller

3 Ethernet port for communication with Windows-based Phoenix-Q software for layout control and system configuration

4 Audio signal output (stereo) for headphone or external speaker connection

5 BNC connector for external Linear Time Code (LTC) input

6 Rotary dial for unit ID in cascading multiple units

7 HDMI input port dedicated to externally cascaded input signals from an upstream Titan 9000
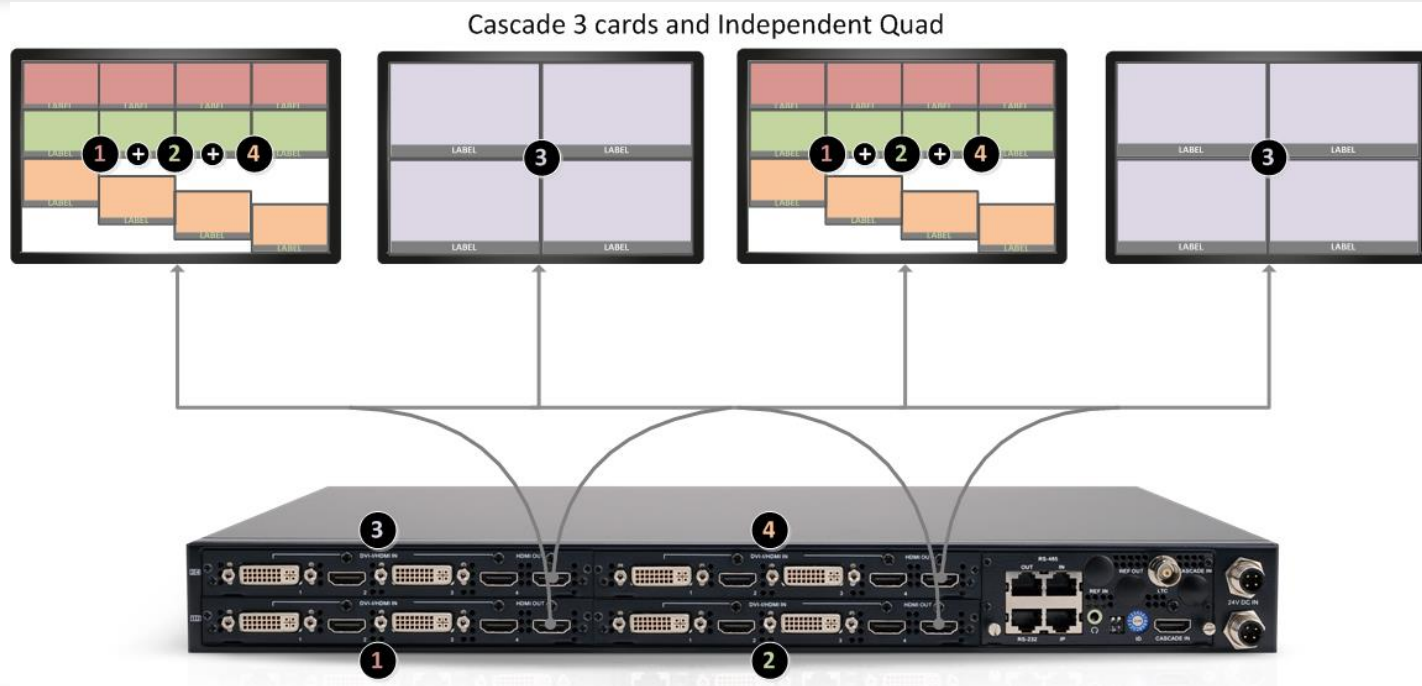
8 24V redundant DC power supply

Independent Quad-View Configuration

A fully loaded Titan 9000 can accommodate up to 4 multiviewer cards, each fulfills standard 4-input-to-1-display applications. Each multiviewer output can be customized as independent quad-split, full-screen, or any multiview layout with free-scaling windows dynamically configured via the Phoenix-Q software.
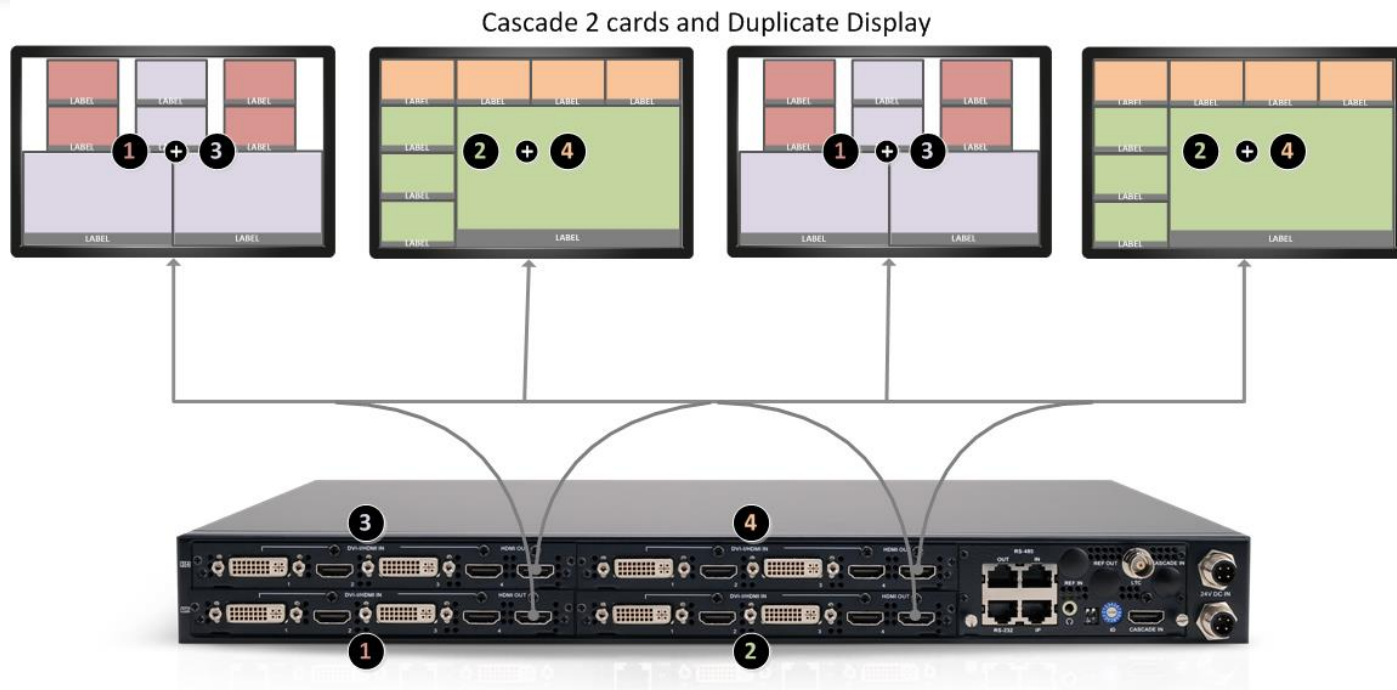

Independent Quad

Internal Cascade Configuration

Titan 9000's built-in cascading architecture routes any 2, 3, or 4 multiviewer cards in a chassis as one integrated multiviewing system. Flexible card grouping on the Phoenix-Q software allows user to view all sources from the cascaded cards through their respective outputs. Cascading all 4 cards facilitates monitoring of up to 16 sources on a display without compromising image quality and window layout flexibility.

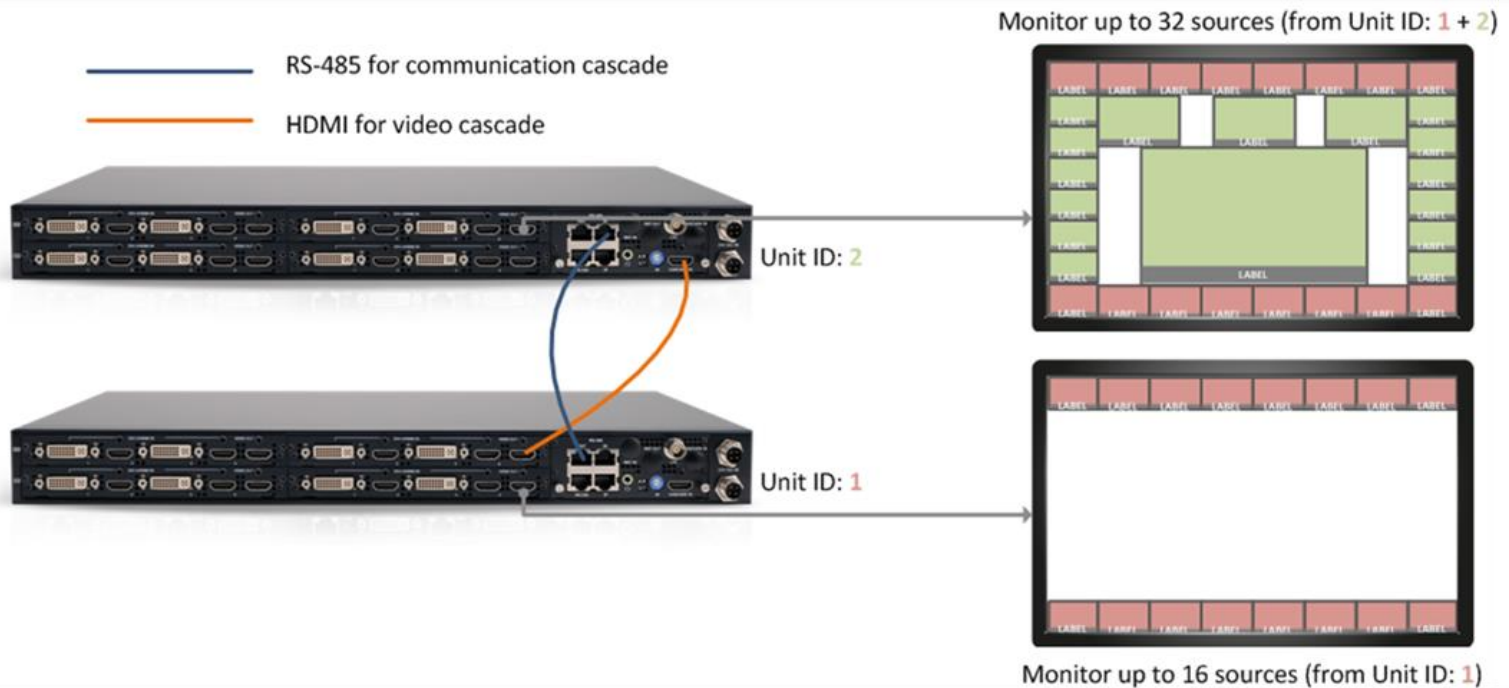
Cascade 3 cards and Independent Quad

Internal Cascade and Duplication Configuration

Flexible cascading architecture supports duplicating any output across multiple displays (up to 4 per chassis). This allows studio monitoring, post-application, and command-and-control operations to be conducted concurrently at multiple user consoles.

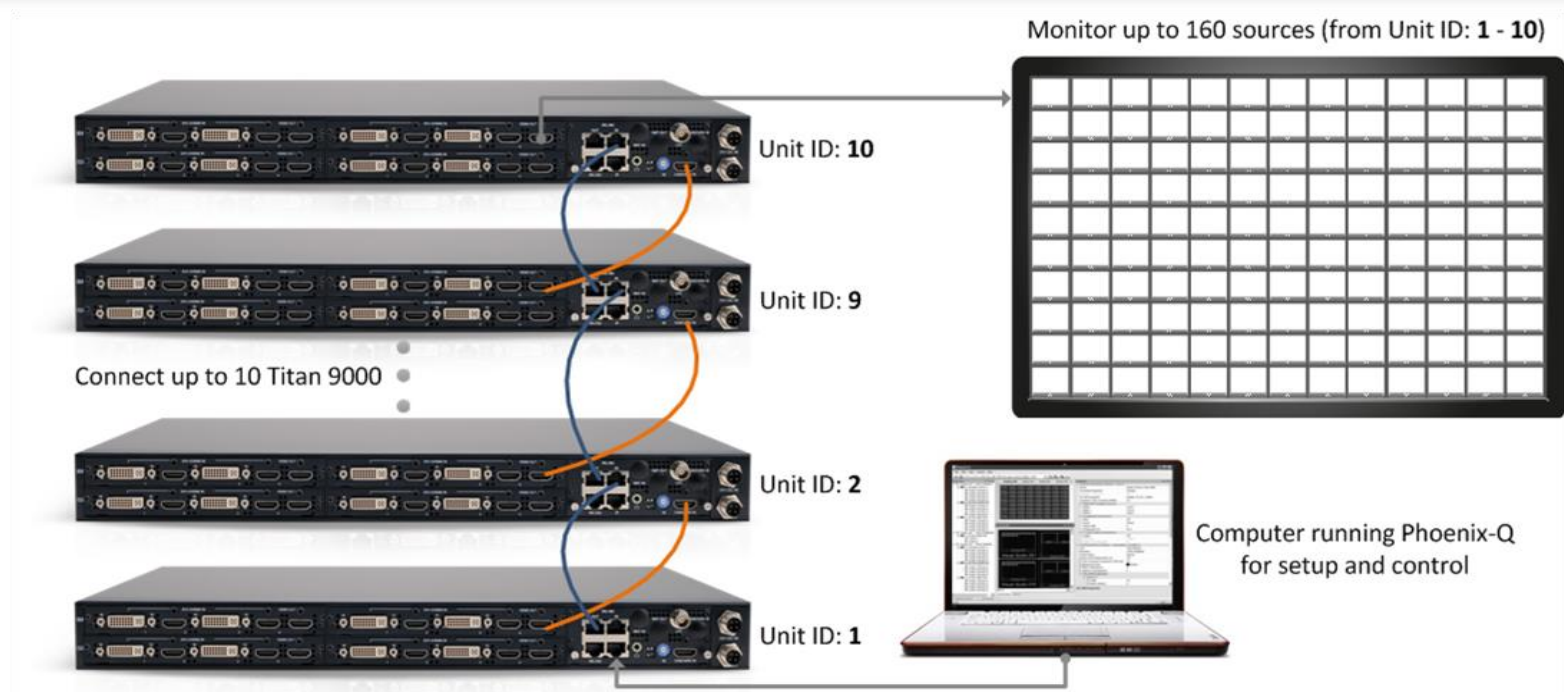Cascade 2 cards and Duplicate Display

External Cascade Configuration

A Titan 9000 physically connected to a second unit adds all inputs from the first unit to the second one. This enhances multiviewing capability beyond 16 sources of a single chassis. Receiving externally cascaded signals from an upstream unit (Unit ID: 1), Titan 9000 (Unit ID: 2) is capable of displaying up to 32 sources via one display and can be resized/repositioned per application needs.

Monitor up to 32 sources (from Unit ID: 1 + 2)

RS-485 for communication cascade

HDMI for video cascade

Unit ID: 2

Unit ID: 1

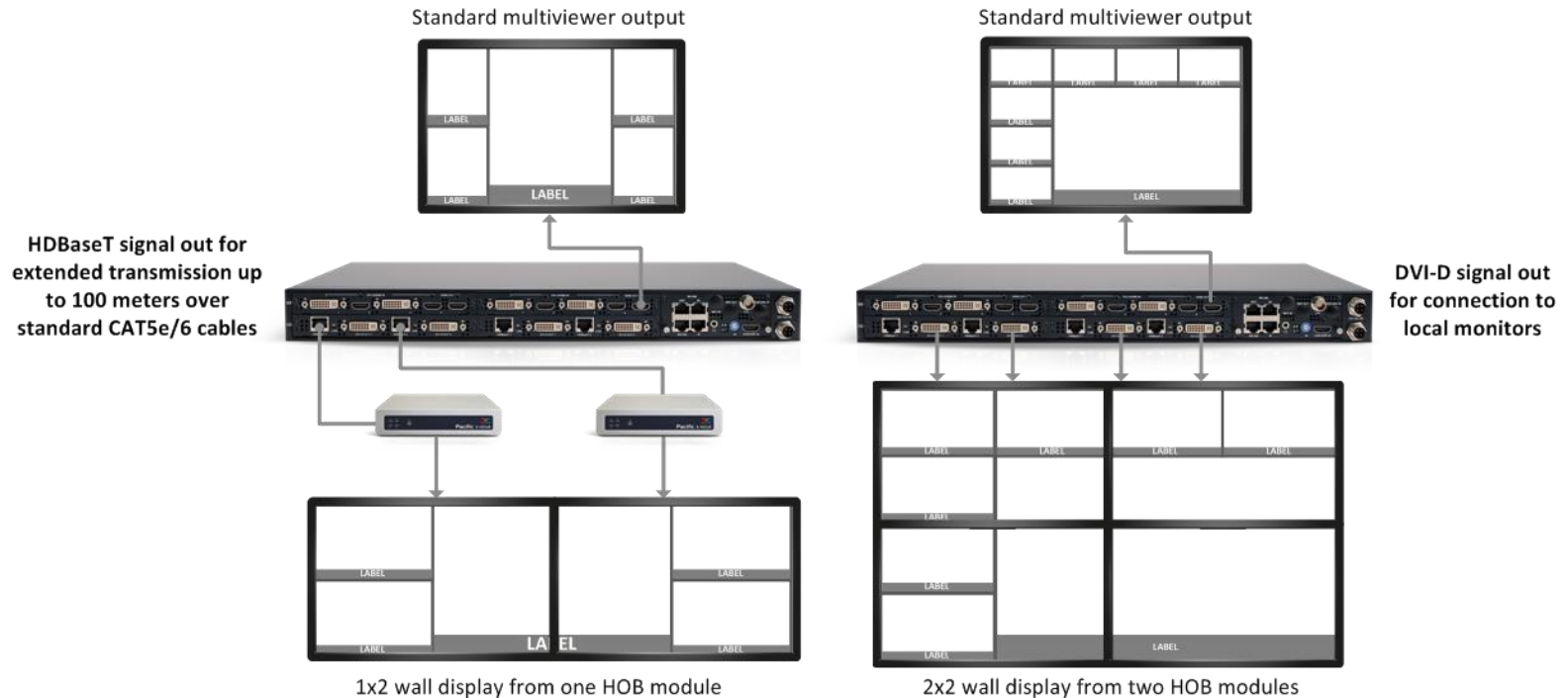Monitor up to 16 sources (from Unit ID: 1)

External Cascade Configuration

Utilizing external cascade allows user to consecutively connect up to 10 Titan 9000 units and monitor 160 sources on one display (multiple displays when duplicated). All cascaded units are controlled as a single integrated system via one instance of Phoenix-Q software. This unmatched flexibility of system expansion dynamically meets the changing monitoring requirements without the need to replace the existing system.

Monitor up to 160 sources (from Unit ID: **1 - 10**)

Unit ID: **10**

Unit ID: **9**

Connect up to 10 Titan 9000

Unit ID: **2**

Computer running Phoenix-Q for setup and control
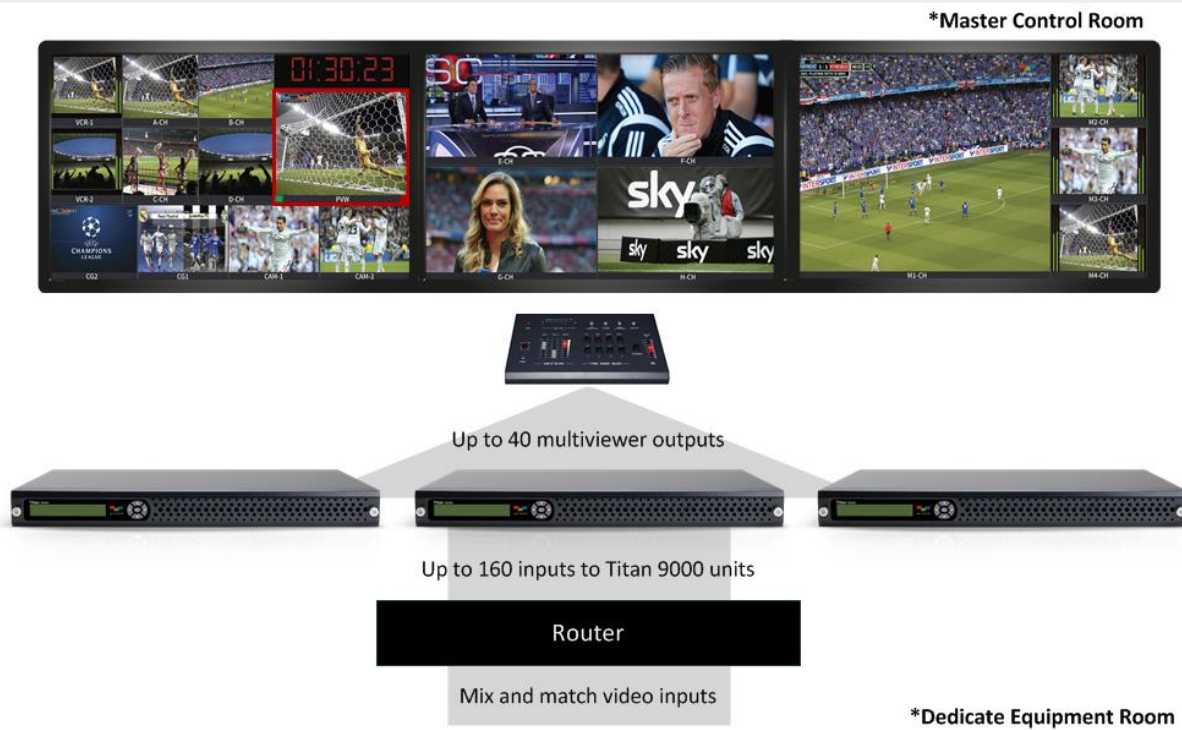
Unit ID: **1**

HOB Module - Video Wall Display

The HOB output card scales the multiviewer output onto a 1x2 dual-screen video wall (2x2 quad-screen when using two HOB cards). Pixel-accurate bezel adjustment ensures seamless image alignment on the wall display. Fully compatible with HDBaseT standard and Avitech Pacific X-HDUR receiver, Titan 9000 delivers uncompressed multiviewing solution that can be concurrently accessed at both local and remote consoles 100 meters away.

1x2 wall display from one HOB module

2x2 wall display from two HOB modules

Router/Switcher Integration

Titan 9000 can be easily paired with third-party routers, production switchers, and tally interface devices to meet complex monitoring needs of a production/studio environment. Upon routing a source to a designated window, Titan 9000 compliant to TSL protocol automatically retrieves mnemonic database from routers/switchers over Ethernet/serial interface, instantly updating label/UMD and tally status on the window.

*Master Control Room

Up to 40 multiviewer outputs

Up to 160 inputs to Titan 9000 units

Router

Mix and match video inputs

*Dedicate Equipment Room

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