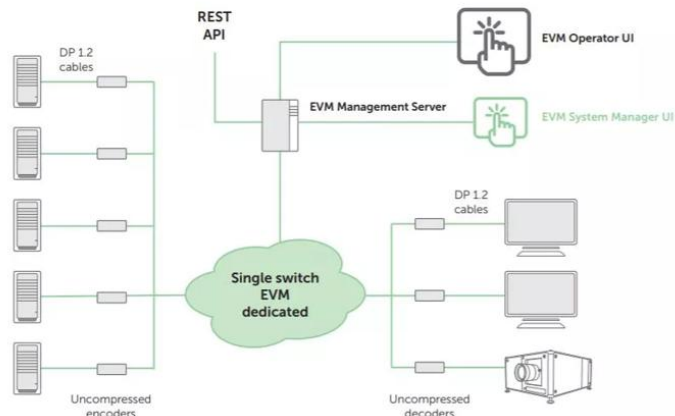


Enterprise Virtual Matrix

Uncompressed AV over IP streaming and switching



- Pixel perfect precision
- Uncompressed streaming of 4K, 8K and higher resolutions
- Full flexibility on upscaling and downscaling
- Flawless keyboard & mouse interaction with zero latency
- Modular, scalable system
- Comprehensive central management
- Browser-based UIs
- Compatibility with VR 3D stereo content

Barco's Enterprise Virtual Matrix (EVM) is a distributed IP networked based system which is centrally managed and enables video, audio and keyboard/mouse connectivity between a source input and one or more destination outputs (including projectors, monitors, displays and audio systems). The quality of the connections via Barco's EVM emulates a direct wire connection, making sure the user cannot notice the difference between a connection over EVM spanning multiple kilometers, and a direct wire of a few meters. And because EVM has been designed to work with sensitive information, security measures have been integrated on different levels of the system, protecting the raw data from all potential threats.

Virtual switching without compromise

EVM enables 100% uncompressed AVoIP connectivity and KVM functionality facilitating optimal collaboration between locations multiple kilometers from each other. For both 2D & 3D content, the highest level of image quality and interaction speed is assured. In order to support very high resolutions, the EVM's ENA-340 decoder features synchronized frame-locking capability between multiple decoder DP1.2 video output ports. In this way, a setup that requires end-to-end synchronization between multiple DP1.2 connections – such as a multi-head setup, very high resolution content, or a video-wall setup – can be seamlessly supported.

A world of flexibility

The combination of single port scalability and a feature license framework, assures any system can be built for any specific business need. And when needs evolve over time, the system can be granularly adapted at any time and on any level, rather than doing an expensive full replacement. Every action needed in setup, configuration or upgrade happens centrally via a single browser-based UI. This makes using and maintaining the system easy, and keeps the TCO low.

General specifications

Encoder & Decoder specs

- ENA-340 Encoder (R9800340) & Decoder (R9800341) specifications
- DP1.2 Video, Analogue audio & USB keyboard & mouse support
 - Supports connection to the dedicated IP network via 1 or 2 x 10 GB optical interfaces type MMF or SMF
 - Uses the fully uncompressed RAW protocol (meaning 13 GB stream for a 4K60) assuring zero image quality loss and a sub frame-rate latency end to end
 - Supports multi-channel synchronization of video outputs between decoders
 - Full transparency for 3D stereo sync signal via DP1.2
 - Full flexibility on resolution & framerate configuration with adaption by decoder where needed

Base system propositions

- IP connection specifications
- Enterprise Virtual Matrix "Basic" Switch (R9800350)
 - EVM optimized Ethernet switch supporting 48 SFP-slots
 - Enterprise Virtual Matrix "Advanced" Switch (4-slot:R9800360 or 8-slot:R9800361)
 - EVM optimized Ethernet switch supporting 1 up to 4 or 8 72 SFP-slot input boards (R9800362)
 - SFP modules supported
 - MMF 10G with maximum fiber distance of 300 m (C9826177)
 - SMF 10G with maximum fiber distance of 10 km (C9826204)
 - UTP 1G (C9826159)

Management platform and Feature licenses

- Server Hardware: Enterprise-class Server R330-D1 (R7600125)
- Enterprise Virtual Matrix "Base" System License (R9833701)
 - Enables all base functionality of the EVM system
 - Connect & manage up to maximum 50 encoder or decoder devices
- Enterprise Virtual Matrix "Advanced features" System License (R9833711)
 - Add-on for the Base System License
 - Expands capacity from the Base system license with 500 extra encoder or decoder devices
 - Enables the API functionality
- SWCare License: Enables upgrades & updates of all Software system components (R9833700)
- Feature Licenses for ENA-340
 - ENA-340 Encoder Base features License (R9833704)
 - ENA-340 Decoder Base features License (R9833703)
 - ENA-340 Encoder/Decoder Audio feature License (R9833707)
 - ENA-340 Encoder/Decoder USB feature License (R9833706)
 - ENA-340 Encoder 3D pass-through feature License (R9833709)
 - ENA-340 Decoder Frame-locking feature License (R9833705)

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