

TransForm ECU-200

High-resolution video wall controller



TransForm ECU-200 is Barco's new generation of video wall controllers, engineered to perfectly master even the largest video walls. Optimally using the extreme bandwidth capacity of the 3rd generation PCI Express backbone, TransForm ECU-200 is capable of capturing and displaying high amounts of video sources and graphical application data on even the largest control room video walls. Running standard Windows OS on a latest generation Intel QuadCore CPU, TransForm ECU-200 is a powerful platform for running applications directly on the video wall controller.

With Barco's Control Room Management Suite CMS in combination with the networking and IP stream handling capabilities, the ECU-200 can either be operated standalone or be seamlessly integrated in a full TransForm N collaboration environment.

Very large displays capabilities

Thanks to its modular and scalable PCIe 3.0-based architecture, and high density output cards, TransForm ECU-200 is the solution for seamlessly and synchronously driving all sizes of video walls, including screens of up to 4K resolution.

High density for high number and types of sources

TransForm ECU-200 uses newest generation high density input cards supporting a high number of directly connected DVI/RGB- and Analog Video sources, in a particularly compact configuration. The PCIe 3.0 switch matrix backbone implemented in the TransForm ECU-200 base unit, combined with optional extenders, delivers double the bandwidth compared to a legacy PCIe 2.0 based system. This allows more source windows, with absolute freedom of placement and zooming.

Configuring the ECU-200 with one or multiple Stream Capture Units (SCU), opens the door to universal IP streams decoding. Barco brings the most comprehensive and future proof list of supported IP stream formats to the TransForm ECU-200 platform.

BARCO

Visibly yours

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Standalone wall controller or fully networked

Whereas TransForm ECU-200 can start in many single wall installations as a Standalone Wall controller, it can be easily and fully integrated into a networked TransForm N system. A networked TransForm ECU-200 behaves as a TransForm N output node and application node with additional local source capture capabilities. It is then an integral part of a collaborative system environment, managed by the Control Room Management Suite (CMS).

Equipped with the latest generation Intel® Core™ i7 Quad Core processor and in combination with the multi-GPU graphic system architecture, TransForm ECU-200 is the powerful controller for running demanding applications on the large Windows™ desktop with a high-res display canvas covering up to the whole video wall.

Ease of use and reliability

TransForm ECU-200 comes pre-installed with the advanced Barco Control Room Management Suite (CMS) software, which not only manages the applications and sources on the directly connected video wall, but also enables collaboration between operators, managers and other authorized personnel in the control center, using the intuitive and easy to use 'Side Bar' utility. TransForm ECU-200 meets all demanding 24/7 control room visualization needs, supported by redundancy and hot-plug capability features for the critical components. Furthermore, the system is easy to install and easy to use. It comes pre-configured out of the box, assuring a simplified and hassle-free setup.

Product specifications

TransForm ECU-200

Software	
OS	Windows 7 64bit Ultimate Version
Management	Barco Control Rooms Management Suite CMS
Processing	
CPU	Intel Core i7 Quad Core Processor
CPU frequency	3.1GHz (up to 3.9GHz)
Memory	16 GB RAM
Hard disk	2x 750 GB RAID-1, Hot-plug redundant
Optical drive	DVD R/W
Network	2x 1 Gb/s LAN
System backplane	11-slot PCI Express 3.0 Switch Fabric backplane
System expansion	With up to 2 expansion chassis the system can be configured to support up to a total of 31 input and output cards
Outputs	
Graphics card	4ch Graphic card Max resolution: 2560x1600@60Hz (Display Port) 3840x2160@30Hz (Display Port, 2ch/card) 1920x1200@60Hz (DVI) Up to 64 HD displays Up to 128/256 Barco HD/WXGA displays Supports Windows desktop size up to 32768x32768 pixel
Inputs	
DVI	4ch DVI Input Card, supporting · HDCP · DVI signals up to 1920x1200@60Hz · RGB signals up to 170 Mpixel · Up to 64 DVI sources per system
DVI-DualLink	1ch DVI-DL Input Card, supporting · DVI signals up to 4kx4k, up to 330MHz pixel clock · Up to 16 DVI-DL sources per system
Analog video inputs	8ch Analog Video Input Card, supporting · PAL (B, D, G, H, I, M, N), PAL-60 · NTSC M, NTSC 4.43 · SECAM · Input formats Composite, S-Video
IP Streaming Input	Stream Capture Unit SCU · Multiple standards supported: MPEG2, MPEG4, H.264, MJPG, V2D · Up to 24/8 SD/HD streams per SCU Model D · Up to 12/4 SD/HD streams per SCU Model S · Up to 8 SCU's per ECU-200
General specifications	
Dimensions	19" Rackmount
Power Supply	100-240VAC 800W+800W, Hot-plug Redundant
Temperature	Operating: 0°C to 35°C (32°F to 98°F) Non-operating: -20°C to 70°C (-4°F to 158°F)
Certification	
Safety	UL/CSA/EN/CCC/BIS/IEC 60950-1 CB report
EMC	CE, FCC Part 15 Class A, CISPR 22, ICES-003
Available models	
Available models	R9839200: ECU-200 system with CMS Software Configuration customer defined