TransForm ECU-200

High-resolution video wall controller

- **Standalone Video Wall Controller**

- **Can be easily extended to a full networked Controller**

- **Drives up to the largest video walls with all outputs synchronized**

- **Support for screen resolutions up to 4K**

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.

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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.

- Standalone Video Wall Controller

- Can be easily extended to a full networked Controller

- Drives up to the largest video walls with all outputs synchronized

- Support for screen resolutions up to 4K

- Large Windows Desktop support

- Large number of input channels

- Compatible with full TransForm N networked environment

- HDCP support

Product specifications	TRANSFORM ECU-200
Processing	
CPU	Intel(R) Core(TM) i7 Quad core processor 3.1GHz (3.9GHz max. Turbo frequency)
CPU frequency	3.1GHz (up to 3.9GHz)
Memory	16 GB RAM
Hard disk	2x 1TB 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 48 HD displays
	Up to 96/192 Barco HD/WXGA displays

Inputs	
DVI	4ch DVI Input Card, supporting ■ DVI signals up to 1920x1200@60Hz ■ RGB signals up to 170 Mpixel ■ Up to 60 DVI sources per system ■ HDCP (supported on Barco Display Control DCS only)
DisplayPort	2ch Display Port 1.2 Input Card, supporting ■ Display Port signals up to 4096x2160@60 Hz ■ Up to 32 Display Port sources per system ■ HDCP (supported on Barco Display Control DCS only)
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
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)
Software	
Management	Barco Control Rooms Management Suite CMS Barco Display Control DCS (alternative option)
OS	Windows 10 64bit IoT Enterprise LTSC
Certification	
EMC	CE, FCC Part 15 Class A, CISPR 22, ICES-003
Safety	UL/CSA/EN/CCC/BIS/IEC 60950-1 CB report
Available models	
Available models	R9839200: ECU-200 system Configuration customer defined

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ENABLING BRIGHT OUTCOMES

BARCO