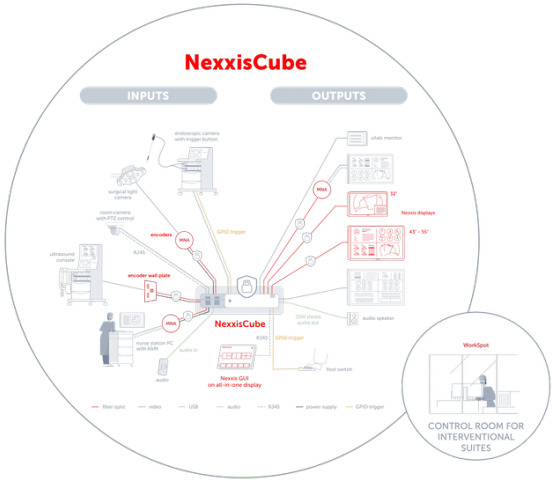
NexxisCube

All in one compact AV over IP solution



- **CE Class I and FDA Class I medical device**
- **Easy to install and mainta in reducing TCO**
- **Near zero latency & no co mpression**
- **4K today, 8K-ready for the future**
- **Embedded cybersecurity**
- **Video over HDMI, SDI or Fiber**

NexxisCube is Barco’ s next generation all-in-one compact AV over IP platform designed for secure distribution of uncompressed video and audio and video over a fiber IP network. While Nexxis 2 addresses the complex integration needs of hybrid a nd multi-functional ORs, NexxisCube is optimized for select invasive procedures.

Ask your integration partner about it and find out how NexxisCube enhances operational efficiency and team collaboration.

Compact by design

NexxisCube offers the proven Nexxis 2 technology in a compact, all-in-one AV-over-IP solution for single rooms and smaller installations.

- Compact all-in-one platform with minimal hardware footprint
- Easy to install and maintain, reducing TCO
- Ideal for retrofit and new OR installations
- Seamless switching between multiple video sources
- Advanced layouts: PiP, PaP, and Quad composition
- Two optimized configurations available

Secure by design

NexxisCube is built with embedded cybersecurity that protects patient data, safeguards clinical uptime and ensures uninterrupted clinical operations.

- End to end encryption of video, audio, and data
- Strong authentication and role based access control
- Secure firmware, device validation, and controlled access

Future-ready by design

NexxisCube is a future-ready solution that evolves continuously through software updates, supporting new imaging standards, technologies, and workflows.

- Pixel-perfect, uncompressed imaging with no artefacts
- Integration of legacy systems and next generation innovations
- 4K today, 8K-ready for the future
- Continuous innovation through software updates
- AI-enabled workflows for real-time decision-making

Proven Nexxis 2 NMS software

NexxisCube integrates the proven Nexxis 2 NMS software, delivering an intuitive and user-friendly user interface for managing video sources and displays. With powerful API connectivity, integrators can effortlessly design and adapt custom user interfaces to match the unique requirements of each end user, ensuring a seamless, personalized, and highly efficient workflow experience.

技术规格	NEXXISCUBE
型号	
MCC-300-1HI 2SI-3SO-8F	· Inputs: 1 HI slot, 2 SI slots · Outputs: 3 SO slots · In/Out: 8 fiber
MCC-300-2HI 1SI-1HO-2SO 8F	· Inputs: 2 HI slot, 1 SI slots · Outputs: 1 HO slot, 2 SO slots · In/Out: 8 fiber
一般规格	
Latency	When genlocked, the end-to-end latency is less than 5 ms
Security	Minimum AES-128 encryption of all video, data, and control signals
Processing resolutions	Up to 4096 x 2160 @ 60 Hz
Color Depth	RGB 8-bit, YCbCr 4:4:4 8-bit, or YCbCr 4:2:2 10-bit
AVoIP Connectivity	8 × SFP+ cages for pluggable 10GbE optical transceivers (duplex fiber), for use with Barco Nexxis 2 encoders, decoders, displays, and PCIe cards
Ethernet	4 x RJ45 1GbE ports: 3 on the internal Nexxis network and 1 uplink to the hospital network
USB	4 x USB Type-A ports Left side: 2 × USB 3.2 Type-A (blue), 5 V, max. 0.9 A (4.5 W per port) Right side: 2 × USB 2.0 Type-A (black), 5 V, max. 0.5 A (2.5 W per port)
Audio	· Line-in: 1 × 3.5 mm TRRS jack by default, plus 1 × 3.5 mm TRRS jack per HI slot for stereo audio · Line-out: 1 × 3.5 mm TRRS jack for stereo audio · Other: 1 × speaker out, balanced stereo audio output (15 W per channel, 8 Ω) via a 4-pin Phoenix connector
GPIO	2 × 3.5 mm TRRS connectors for camera trigger and general I/O
External power output	4 × isolated 12 V DC outputs, 45 W per port, via 3-pin Phoenix connectors
Power rating	100-240 V, 50/60 Hz, 4-8 A
Power consumption	Max: 500 W Typical: 300 W at an ambient temperature of 25 °C
Size	410 mm x 400 mm x 88 mm
Weight	< 11 kg
Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)
Operating Humidity	Max. 85%
Storage Conditions	Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F) Storage relative humidity: 10% to 93% Storage altitude: 500 hPa -1060 hPa
Acoustic Noise Levels	
Mounting	Rack-mounting kit available as an accessory
Certifications	-CB (IEC 60601-1) Informative report -CB (IEC 60950-1) -CE medical device class I -UKCA -BIS Registration, IS 13252 (part 1)
Standards	Medical Equipment: -IEC 60601-1:2005 + A1:2012 + A2:2020 -IEC 60601-1-6:2010 + A1:2013 + A2:2020 -IEC 60601-1-2: 2014+A1:2020 (Ed.4.1) -ANSI/AAMI ES 60601-1:2005 + A1:2012 + A2:2021 -CAN/CSA-C22.2 No.60601-1:08 + A1: 14 (Reaffirmed 2022) -EN 60601-1:2006 + A1:2013 + A12:2014 + A2:2021 -EN 60601-1-6:2010 + A1:2015 + A2:2021 -EN 60601-1-2:2015 + A1:2021 (Ed.4.1) -FCC class B -ICES-001 Level B ITE Equipment: -IEC 62368-1:2018 -EN IEC 623681:2020 + A11:2020 -IS 13252 (Part1): 2010
API	Nexxis 2 Management System
视频输入	
HI Slot	2 × HDMI 2.0 (lockable connectors), supporting 1 × 4K or 2 × FHD
SI Slot	4 × SDI (lockable connectors), supporting 3G-SDI on SDI In 1–4, 12G-SDI on SDI In 1, or quad-SDI on SDI In 1–4
视频输出	
HO Slot	2 x HDMI 2.0 (lockable connectors), supporting 4K (cloned on both outputs) or 2 independent FHD outputs
SO Slot	4 × SDI (lockable connectors), supporting 4 independent 3G-SDI signals on SDI In 1–4 or a 12G-SDI signal cloned on all outputs

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