

# NGS-105

## 4/8 channel high-resolution graphics input module



As part of Barco's networked visualization solutions, the NGS-105 graphics input module captures DVI and HDMI input signals, encodes them in JPEG-2000, and streams them out over a gigabit Ethernet network for display or further processing by Barco's display controllers and software.

### Features:

- Connectivity: 4 x DVI-D (Dual Link) connectors or 8 x Type A HDMI connectors
- 1 x GbE connections as service management connection
- 2 x GbE connections as redundant network connection with in-band management
- Designed with:
  - Hot-swappable, front-accessible processing board
  - Rear-accessible passive connection board
  - Fits into Barco's NGC chassis

# Technical specifications NGS-105

## Inputs

- Only RGB (24-bit processing) signals are supported \*
- Input cable equalizer

## Resolutions and frame rates

- Up to WUXGA (1920x1200) for HDMI or DVI single link input, DDC
- Up to WQXGA (2560x1600) for DVI dual link input, DDC
- 60fps supported up to UXGA (1600x1200). Higher resolutions are only supported at lower frame rates.
- Resource spending depends on the used resolution, number of inputs and frame rate.

## Pre-processing

- Progressive scan type

## Alarm handling

- The NGS-105 can raise alarms based on video lock detection.

## Encoder system

- JPEG2000 encoder targeted at video, and high-bandwidth compression applications based on wavelet transformation
- Provides fully compliant code stream generation (Tier1 and Tier2).
- Non temporal compression for minimal latency
- Flexibility from lossless to very low bit rate per source
- State-of-the-art compression rate, 1 frame only
- Tier 2 mechanism allows filtering and transrating without decoding
- Inherent scaling perfect for display applications

## Network interface

- 2x GbE connections as redundant streaming network connection
- 1x GbE connection as service connection
- Multicast streams – IGMP3.0 standards
  - High-quality RGB streams (One or multiple RTP/UDP multicast streams to allow bandwidth management)
  - Thumbnail RGB streams
  - Metadata streams
  - Control data

## Power consumption

- Typical 50 Watt

## Dimensions

- Utilizes one slot of Barco's NGC chassis

## System support

- NGS-105 is supported by Barco's Networked Broadcast Monitoring System (NBMS) and Barco's TransformN (TFN) solution.
- Software integration into Barco's Broadcast Monitoring Suite (BMS) and Barco's Control room Management Suite (CMS)
- Inputs can be visualized at any network point using either software decoding or hardware decoding.

\* No HDCP support on HDMI input

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