

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.

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Technical specifications

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| Inputs | <ul style="list-style-type: none"> • Only RGB (24-bit processing) signals are supported (No HDCP support on HDMI input) • Input cable equalizer |
| Resolutions and frame rates | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Progressive scan type |
| Alarm handling | <ul style="list-style-type: none"> • The NGS-105 can raise alarms based on video lock detection. |
| Encoder system | <ul style="list-style-type: none"> • 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, I frame only • Tier 2 mechanism allows filtering and transrating without decoding • Inherent scaling perfect for display applications |
| Network interface | <ul style="list-style-type: none"> • 2x GbE connections as redundant streaming network connection • 1x GbE connection as service connection • Multicast streams – IGMP3.0 standards |
| Power consumption | <ul style="list-style-type: none"> • Typical 50 Watt |
| Dimensions | <ul style="list-style-type: none"> • Utilizes one slot of Barco's NGC chassis |
| System support | <ul style="list-style-type: none"> • 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. |