

NGS-101

8 channel (HD-)SDI Input Module



As part of the Networked Broadcast Monitoring System, the NGS-101 captures SDI and HDSDI input signals, encodes them in JPEG-2000, and streams them out over a gigabit Ethernet network.

BARCO

Visibly yours

Technical specifications

Inputs	<ul style="list-style-type: none"> • 8 x BNC connectors <ul style="list-style-type: none"> ◦ SMPTE 292M compliant for HD-SDI ◦ SMPTE 259M compliant for SDI • Input cable equalizer
Pre-processing	<ul style="list-style-type: none"> • High-quality deinterlacer • Integrated scaler to minimize bandwidth requirements on the network <ul style="list-style-type: none"> ◦ YUV 4:2:2 processing ◦ Low latency • HD downscaling
VBI decoding	<ul style="list-style-type: none"> • CC-XDS • WSS • VLI • Teletext subtitles • VITC • Embedded audio
Image analysis	<ul style="list-style-type: none"> • Video black, video white, video freeze and video lock detection. • The NGS-101 can raise alarms based on user-configurable threshold values.
Encoder system	<ul style="list-style-type: none"> • HD input capable JPEG2000 SD 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 bitrate • 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 for redundant streaming network connection • Multicast streams - IGMP3.0 standards <ul style="list-style-type: none"> ◦ High quality video streams (One or multiple RTP/UDP multicast streams to allow bandwidth management) ◦ Thumbnail video streams ◦ Audio & metadata streams ◦ Control data
Power consumption	<ul style="list-style-type: none"> • Typical 60 Watt
Dimensions	<ul style="list-style-type: none"> • Utilizes one slot in NGC chassis