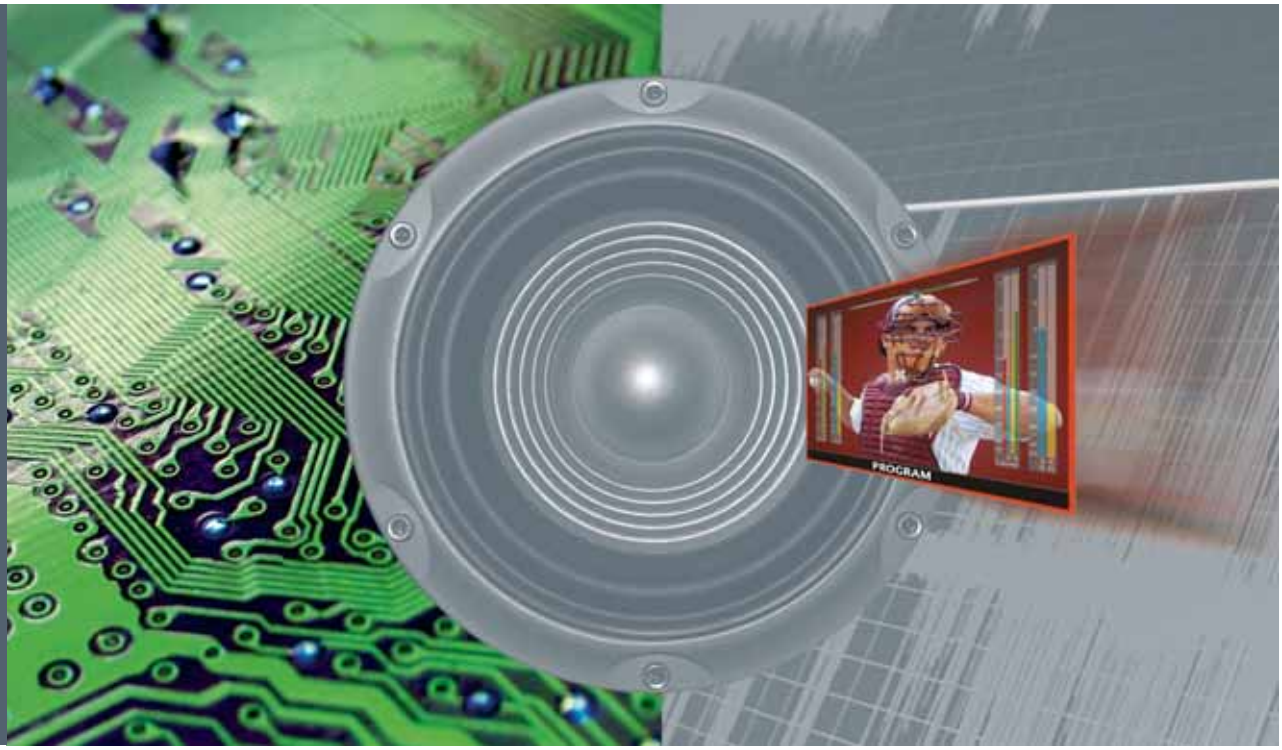
NGM-164



The NGM-164 is a new solution that enables streaming of analog or digital audio converted into metering data over an IP-network.

Networked audio metering unit

The NGM-164 is a new solution that enables the conversion of analog or digital audio into data that represents audio level indication which conforms to most common international standards. The data is then available on a LAN for remote multi-channel level monitoring rendered to screen in Barco HYDRA multi-video display units or any application where audio level indication and alarm functionality is required.

The bar graphs can be shown on any of the Barco multi-video display units in the control room. The bar graphs can be configured to suit the operator and can be customized in size, color and position. All popular scales and ballistics are available.
The NGM-164 also provides alarm detection for audio loss, over level, out of phase on adjacent pairs and carrier loss.

Additionally, the NGM-164 can be equipped with a monitoring output board providing four pairs of analog and AES/EBU monitoring outputs.

Hot-swappable cards and field programmable flash memory makes the NGM-164 a maintenance friendly design.

BARCO

Visibly yours

Technical specifications NGM-164

General specifications	
• Capacity	64 audio channels input capability
• Hot-swap features	4 slots of 16 channels (8 stereo pairs) each
	All cards hot-swappable
	Input card types automatically recognized
• Accuracy	Level processing performed at 16 bit resolution
• Monitoring	1 slot for analog and AES/EBU monitor outputs
• Serviceability	All firmware is stored in field programmable FLASH memory
• Supported audio scales	NORDIC (IEC 60268-10 Type I)
	DIN PPM (IEC 60268-10 Type I)
	BBC PPM (IEC 60268-10 Type II)
	VU (IEC 60268-17)
	VU EXT (IEC 60268-17)
	DIGITAL (IEC 60268-18)

Analog input cards	
• Type	Analog with +24dB capability
• Capacity	16 mono input channels (8 stereo pairs) per card
• Alarms	Alarm detection for audio loss, over level and out-of-phase on adjacent pairs
• Input type	Differential
• Input impedance	40k Ohms
• Input sensitivity	0dBu
• Input connector	DB25 female
• Maximum input level	+24dBu
• Frequency response at -3dB points	from 1Hz. to 20.2kHz
• Frequency response at -0.5dB points	from 5Hz to 20kHz
• A/D converte	Stereo 24 bit converter
• Sampling frequency	48kHz per channel
• Accuracy	+/- 0.1dB @ 1kHz 0dB reading

Digital input cards	
• Type	AES/EBU (balanced/unbalanced selected by jumpers on the PCB)
• Capacity	8 AES/EBU pairs per card
• Alarms	Alarm detection for audio loss, over level, out-of-phase on adjacent pairs and carrier loss detection
• Input type	Differential 110 Ohm or Single-ended 75 Ohm
• Input compatibility	RS422
• Input connector	DB25 female
• Input interface	Transformerless
• Sampling frequency	32, 44.1, 48kHz detected via input
• Accuracy	+/- 0.1dB @ 1kHz 0dB reading

Physical	
• Dimensions overall (h/w/d)	44.5 mm / 483 mm / 367 mm | 1.75 in (1U) / 19 in / 14.45 in
• Weight	7 kg | 14 lbs.
• Power mains	100-240V, 60Hz/50Hz
• Power consumption	60 W
• Operating conditions	0 - 40 °C | 32 - 104 °F at max. 90% relative humidity, non condensing

Barco Control Rooms - Belgium
Noordlaan 5, 8520 Kuurne
Phone (32) (56) 36-8211
E-mail sales.controlrooms@barco.com

Germany Phone (49) (721) 6201-0
USA Phone (1) (678) 475-8000
Brazil Phone (55) (11) 3842-1656
Japan Phone (81) (3) 5762-8720
Hong Kong Phone (852) 2397-0752

Ref. no. R599129 December 2006