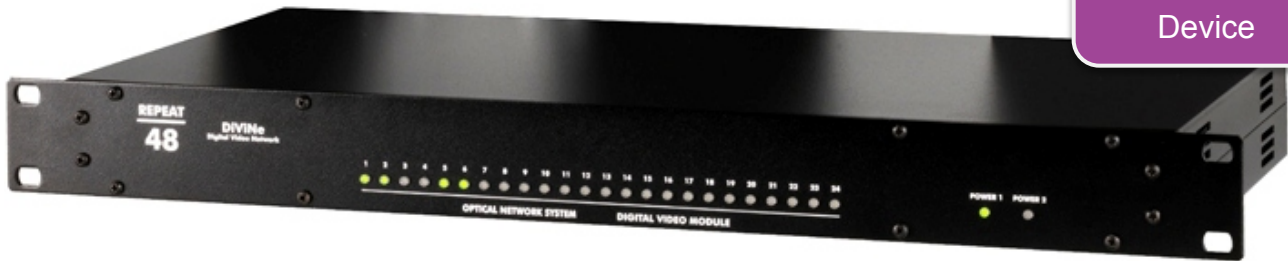


# BroaMan Repeat48 / Repeat48WDM

## 3G/HD/SD-SDI VIDEO / MADI REPEATER

### WDM CAPABLE

Customised  
Video & Audio  
Device



#### Repeat48 features

- **Up to 24 video channels / MADI streams**
- **Up to 24 EOE converters, which can be configured as:**
  - SD/HD/3G-SDI input to fibre transmitter
  - fibre receiver to SD/HD/3G-SDI output
  - bi-directional BNC to fibre MADI converter
- **No configuration required**
- **No user operation required**  
Plug and play device
- **Channel status LEDs**
- **Modular hardware design**
- **Built-in dual power supply with automatic switchover**

#### Repeat48WDM features

- **Up to 24 video SD/HD/3G-SDI I/O channels / MADI streams**
- **Built-in WDM, CWDM or DWDM modules**
- **Auxiliary fibre ports for external MUX/DEMUX connection, enabling Optocore integration**

DiViNe, the Digital Video Network developed by BroaMan, provides scalable, protocol independent, routing, repeating, transport and distribution of multiple professional video signals, such as SD/HD/3G-SDI, over optical fibre.

Complete BroaMan systems are built from a collection of modules that include; coaxial and optical I/O, routers, repeaters, and optical multiplexers. Using the modular BroaMan building blocks, any system configuration can be realized.

BroaMan systems are specified and built to provide an application engineered solution, tailored to the requirements of the customer. The modular nature of BroaMan paves the way for construction of fully cost optimized systems.

Repeat48 is a 1RU device, capable of housing up to 24 SD/HD/3G-SDI coaxial video inputs or outputs that are converted to and from single-mode optical fibre.

Repeat48 can be equipped with bi-directional MADI BNC ports to optical fibre transceivers.

Repeat48WDM is a 1RU device, capable of housing up to 24 SD/HD/3G-SDI coaxial video inputs or outputs that are that are multiplexed and/or demultiplexed using a built in Coarse Wave Division Multiplexing (CWDM) or Dense Wave Division Multiplexing (DWDM) modules to a common single-mode optical fibre port.

Repeat48WDM equipped with WDM modules may be populated with auxiliary fibre ports to allow for connection of external fibre systems, such as Optocore, to the WDM module.

The built in WDM capability provides the option of transporting up to 24 channels of video and an Optocore stream over one optical fibre.

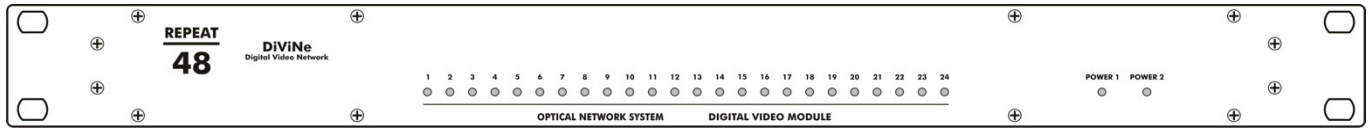
Repeat48 and Repeat48WDM are populated with I/O and multiplexers at the time of manufacturing, according to customer specifications.

Repeat48 and Repeat48WDM feature a built-in redundant power supply with an automatic switchover.

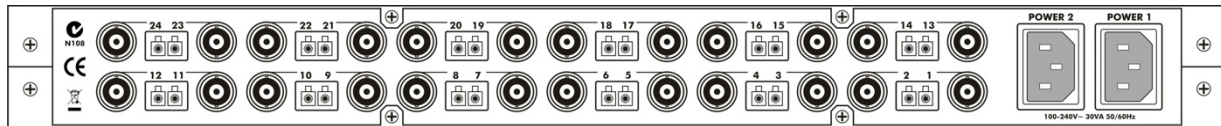
The front panel provides 24 LEDs indicating signal presence on each port as well as LEDs for status of the power supplies.

Repeat48 and Repeat48WDM require no user configuration or operation. .

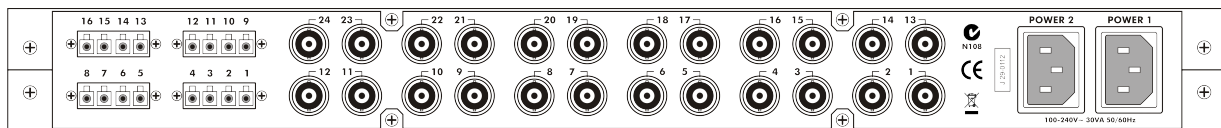
## Line Drawings



Front Panel – Repeat48 / Repeat48WDM



Rear Panel – Repeat48



Rear Panel – Repeat48WDM

## Technical Specifications

<b>Video</b>	
<b>Standards</b>	SD, ED, HD, Dual Link, 3G
<b>Complies with SMPTE</b>	259M, 292M, 344M, 372M, 424M
<b>Interface</b>	SDI – Serial Digital Interface
<b>Optical Connection</b>	
	Complies with 21 CFR 1040.10 and 1040.11
<b>MADI</b>	
	<b>Convention AES10-1991 / AES10-2003</b>
<b>Channel count</b>	64 per MADI stream
<b>Data rate</b>	125 Mbps
<b>Termination</b>	75 Ohm
<b>Power Supply</b>	
<b>Type</b>	Switch-mode, universal input
<b>Mains voltage</b>	100... 240 V
<b>Frequency</b>	50 60 Hz
<b>Power consumption</b>	Depending on the configuration of the device, 32VA - Max
<b>Security classification</b>	Class 1: basic insulation, connected to the protective grounding conductor
<b>Security regulations</b>	Harmonised European standard EN60065
<b>Mains connector</b>	acc. to IEC-950
<b>Cooling</b>	Passive, via surface and ventilation openings on both sides of the device

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