



SIMATRIX NEO Modular Video Matrix

SIMNEO-168

- **Modular Design**
- **Expandable up to 224 Video-Inputs, 32 Video-Outputs**
- **Up to 8 keyboards can be connected for control**
- **Multiple protocol driver for the direct control of telemetry devices via RS485-Interface (CCDA, SCU, SIVIS, PELCO-D)**
- **Variable speed interface control**
- **Macro function**
- **User-definable OnScreen text and time display**
- **Time/Date-Display, can be assigned to up to 8 monitors**
- **Easy editing of camera texts and alarm texts**
- **Password protection for the activation / deactivation of the alarm-groups**
- **Time controlled alarm programming (with weekday functions)**
- **Alarm positioning of domes and PTZ-systems**
- **Combinable with the existing SIMATRIX family**
- **3 RS232-Interfaces for the connection of the programming PC, TELEMAT MD/MTD, IVM, LMS or SiPass**
- **Windows based programming software**
- **Complete programming of the alarm processing functions**
- **Independent video-loss recognition**
- **Simple connection, easy installation:**
 - Video through BNC-connection,
 - Telemetry and keyboard control through RJ11 / RJ12-Female Connector

Application Areas

SIMATRIX NEO: A Universal Video Matrix with an open programmable structure. The User application spans from the pure matrix function up to special event control in conjunction with external contacts, notification messaging for the processing of danger, alarm and intrusion information (i.e. LMS, Video Sensor System TELEMAT MD/MTD) or access-control system SiPass.

The SIMATRIX NEO is ideal for compact video solutions. Beginning with smaller systems containing 16 Video inputs and 8 Video Outputs and expandable up to larger systems containing up to 224 Video Inputs with a maximum of 32 Video outputs using the optional extension bay SIMNEO-EXT. Based on the technical flexibility of SIMATRIX NEO, a large part of the installation applications can be covered with one device. On the telemetry ports a multitude of telemetry devices can be connected **without having to use any extra converters.**

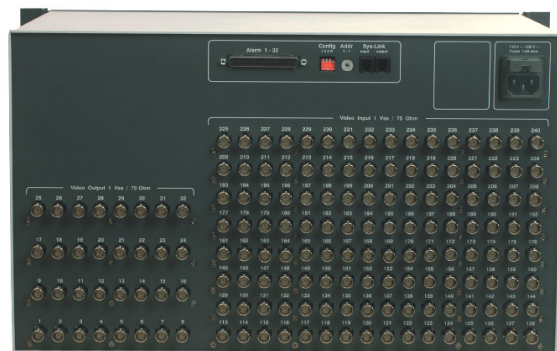
The optional alarm box SIMNEO-A128 provides connectivity of 128 external alarm-contacts for event control. Maximum 2 alarm boxes can be connected to the SIMATRIX NEO.

With IVM a user friendly Video Management software for the Video matrix SIMATRIX NEO is available. The standard operation with the keyboard including programmable buttons can be used.

Rear View SIMATRIX NEO

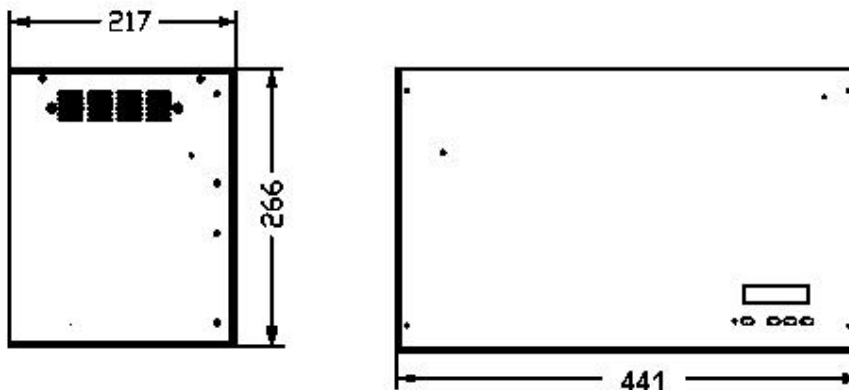


Fully equipped main chassis: SIMNEO-128x32



Fully equipped extension bay: SIMNEO-EXT

Dimensions SIMATRIX NEO



All in mm

Video

Video-Inputs	BNC-Connectors U _{pp} =1V Video, 75 Ω, termination switchable with Jumpers
Video-Outputs	BNC-Connectors U _{pp} =1V Video, 75 Ω
Detection of video signal failure	Checking of vertical sync pulses, with activated picture cycle at one video output
On-screen text display	Full IBM character set Internal synchronization Character representation: white with black border Field size: 12 text lines with 24 characters each Character height: 18 screen lines
Crosstalk attenuation	≥ 56 dB at 5 MHz
Differential gain	≤ 1 %
Differential phase	≤ 0,6 °
Frequency response flatness	- 0,5 dB by 6 MHz
Frequency response flatness after input	80 ms (typical.), 200 ms (max.) (following command input on video matrix)

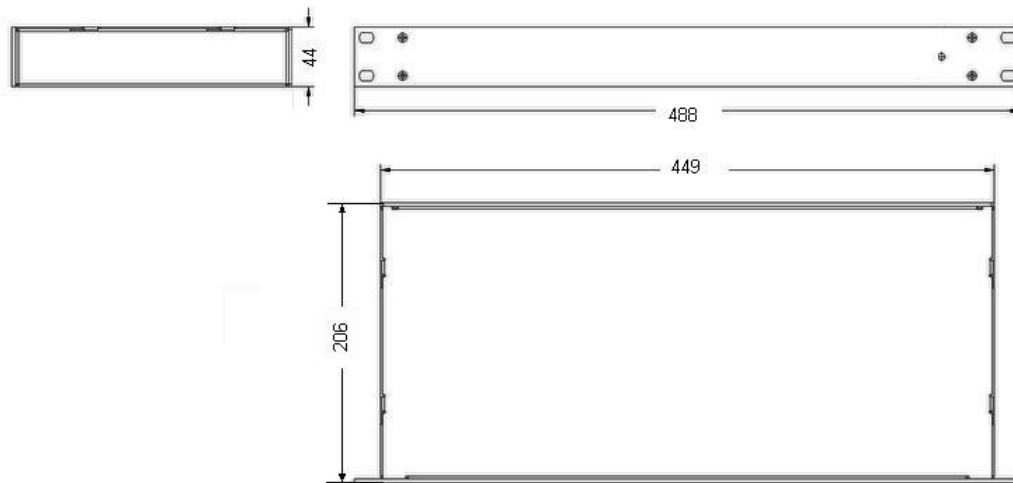
Control

Controller	6 RISC-Controller
Interface for	
- Programming-PC, IVM, TELEMAT, SIPASS, LMS	3 x V.24-Interface Baud rate: 1200 – 19.200 bit/s Connection: 3 x 9-pin Sub-D-Male Connector
- Keyboard	8 x TTY-(20mA)-Interface with power supply for up to 8 Keyboards (max. 800mA total), Cable length: Up to 2 km with 0,8 mm diameter Baud Rate: 1200 – 9600 bit/s Connection: 8 x RJ12 – connections
- PTZ Control (CDC)	16 x SCU-(20mA)-Interface Cable length: Up to 2 km with 0,8 mm diameter Baud Rate: 1200 – 9600 bit/s Connection: 2 x 37-pin Sub-D-Female connector
- Telemetry Device Control	4 x RS422/RS485-Ports; Protocol: CCDA, SCU, SIVIS, PELCO-D Connection: 4 x RJ11 –Female connector / Port
- Notification / Alarm Device, Alarm Contact	32 x Alarm Inputs for Alarm devices Cable length: up to 10 m Connection: 2 x 37-polige Sub-D-Female connector
- Video Recorder, Digital Video Recorder	8 Control Outputs (Open Collector); max. 30 V, max. 50 mA Relays with 2 potential free contacts; max. 48 V, 250 mA; Connection: 1 x 25-pin Sub-D-Female Connector
Power Supply	115 VAC to 230 VAC, Tolerance: +10%/-15% switchable, 50 Hz to 60 Hz Secured with 2 fuses in the power supply (1,6 A Slow burn)
Power Consumption	Fully Configured System: 55 VA max. Each Input Card with 16 Inputs: 1,4 VA Each Output Card with 8 Outputs: 2,8 VA
Operation Temperature	+ 5 °C to +45 °C
Relative Moisture	30 to 85 %, non condensing
Design	19- inch rack mountable; 6 HU
Dimensions (W x H x D, without 19" mount)	441 mm x 266 mm x 217 mm

ear view Alarmbox SIMNEO-A128



Dimensions SIMNEO-A128




All in mm






Technical Specification Alarmbox SIMNEO-A128

Alarm Inputs:	128 Alarm Inputs, (4 x 32 Inputs)
Input resistance:	2,2 Kilo Ohm
Threshold:	2,5 V DC
Max. voltage:	internal pull-up (max. 24 V DC external)
Alarm pulse:	min. 300 milliseconds
Length Alarm-cable:	max. 10 m
Connection Alarm:	4 x 37-pin Sub-D
Controller:	1 RISC-Controller
Interface:	SysLink
Power requirement:	115 / 230 VAC (+10% / -15%), 50/60 Hz (internal switchable)
Fuse:	2 x 125 mA slow
Power consumption:	3 VA
Operating temperature:	+ 5 °C to 45 °C
Relative humidity:	30 to 85 %, non condensing
Construction:	19 inch chassis, 1 HU
Dimensions (W x H x D, without 19" mount):	449 x 44 x 206 mm

Ordering details

	Type	Order-No.	Designation	Weight
	SIMNEO-168	2GF2211-8AA	SIMATRIX NEO complete device in 19"-Rack, 6 HU, PAL-Version *, incl. CPU, 16 Video-Inputs, 8 Video-Outputs, 32 Alarm-Inputs *Note: NTSC-Version upon Request	6,5 kg

Accessories

	Type	Order-No.	Designation	Weight
	SIMNEO-EXT	2GF2211-8AB	SIMATRIX NEO 19"-Expansion, 6 HU, incl. 32 Video-Inputs, 16 Video-Outputs	6,3 kg
	SIMNEO-IM	2GF2211-8CA	Video-Input Module, Additional 16 Video-Inputs	0,24 kg
	SIMNEO-OM	2GF2211-8DA	Video-Output module with Text overlay Additional 8 Video-Outputs for main chassis	0,03 kg
	SIMNEO-SOM	2GF2211-8DB	Video-Output module, (No Text) Additional 8 Video-Outputs for Extension Bay	0,03 kg
	SIMNEO-A128	2GF2211-8EA	Alarm Box, 128 Alarm-Inputs in 19"-Rack Device, 1 HU	2,50 kg

Pre Configured SIMATRIX NEO**

Type	Order-No.	Designation	Weight
SIMNEO-32x8	2GF2211-8JA	SIMATRIX NEO pre configured, 6 HU 32 Video-Inputs, 8 Video-Outputs	6,74 kg
SIMNEO-64x8	2GF2211-8JB	SIMATRIX NEO pre configured, 6 HU 64 Video-Inputs, 8 Video-Outputs	7,22 kg
SIMNEO-96x8	2GF2211-8JC	SIMATRIX NEO pre configured, 6 HU 96 Video-Inputs, 8 Video-Outputs	7,7 kg
SIMNEO-128x8	2GF2211-8JD	SIMATRIX NEO pre configured, 6 HU 128 Video-Inputs, 8 Video-Outputs	8,18 kg
SIMNEO-16x16	2GF2211-8KA	SIMATRIX NEO pre configured, 6 HU 16 Video-Inputs, 16 Video-Outputs	6,53 kg
SIMNEO-32x16	2GF2211-8KB	SIMATRIX NEO pre configured, 6 HU 32 Video-Inputs, 16 Video-Outputs	6,77 kg
SIMNEO-64x16	2GF2211-8KC	SIMATRIX NEO pre configured, 6 HU 64 Video-Inputs, 16 Video-Outputs	7,25 kg
SIMNEO-96x16	2GF2211-8KD	SIMATRIX NEO pre configured, 6 HU 96 Video-Inputs, 16 Video-Outputs	7,73 kg
SIMNEO-128x16	2GF2211-8KE	SIMATRIX NEO pre configured, 6 HU 128 Video-Inputs, 16 Video-Outputs	8,21 kg
SIMNEO-160x16	2GF2211-8KF	SIMATRIX NEO pre configured, 12 HU 160 Video-Inputs, 16 Video-Outputs	15,02 kg
SIMNEO-224x16	2GF2211-8KG	SIMATRIX NEO pre configured, 12 HU 224 Video-Inputs, 16 Video-Outputs	15,98 kg
SIMNEO-32x32	2GF2211-8LA	SIMATRIX NEO pre configured, 6 HU 32 Video-Inputs, 32 Video-Outputs	6,83 kg
SIMNEO-64x32	2GF2211-8LB	SIMATRIX NEO pre configured, 6 HU 64 Video-Inputs, 32 Video-Outputs	7,31 kg
SIMNEO-96x32	2GF2211-8LC	SIMATRIX NEO pre configured, 6 HU 96 Video-Inputs, 32 Video-Outputs	7,79 kg
SIMNEO-128x32	2GF2211-8LD	SIMATRIX NEO pre configured, 6 HU 128 Video-Inputs, 32 Video-Outputs	8,27 kg
SIMNEO-160x32	2GF2211-8LE	SIMATRIX NEO pre configured, 12 HU 160 Video-Inputs, 32 Video-Outputs	15,14 kg
SIMNEO-208x32	2GF2211-8LF	SIMATRIX NEO pre configured, 12 HU 208 Video-Inputs, 32 Video-Outputs	15,86 kg

**Additional Order Information

- BNC cables for cascading of SIMATRIX NEO with >128 Video Inputs not included in delivery.
- The quantity of cables depends on the number of video-outputs.