



PHILOSOPHY



Status Quo Tour Scandinavia



Scorpions Concert in Riga, Lettland



Roskilde, Denmark



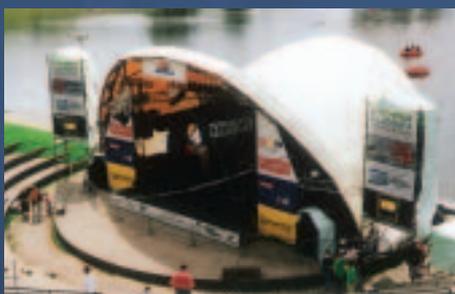
„ LOVE PARADE '97" in Berlin

The V-SYSTEM is DYNACORD's answer to the increasing challenge of the professional sound reinforcement business: Uncompromising Hi-End performance and outstanding output capacity are combined with solutions that have been optimized for practical use for system-configuration and rigging. Innovative technology enables V-SYSTEM to achieve higher acoustic output with less spatial volume and less weight, thus saving on precious loading space at the same time. Installation is quick and easy, and once in place provides safe and reliable operation.

Despite being "the new kid on the block" V-SYSTEM has proven its effectiveness time and time again in the highly competitive audio market: Starting with the world's longest open-air festival – the Theatron in Munich – and spectacular film premieres like "Air Force One" in Munich or "Mulan" in the Cologne Arena up to events like the Berlin Love Parade and other street parades, as well as music festivals such as Roskilde, or tours including Status Quo's Scandinavian tour and the Scorpions, V-SYSTEM has performed flawlessly.

In fact, it is hard not to be impressed with V-SYSTEM's outstanding performance and extraordinary road-ability. If you're still not convinced, try it for yourself and see what we're talking about.

V-SYSTEMS audio at it's finest !



Theatron at Olympic Area in Munich



„AIR FORCE ONE" Movie Munich

COMPONENTS



V12-60 P
High Cabinet
passive

V24-60 P
High Cabinet
passive

V17 PWH
18" Low Cabinet

V18 PWH
18" Subwoofer

V28 PWH
2 x 18" Subwoofer



V14
Nearfield Cabinet

V2-30 P
Farfield Cabinet

VM 15
Floor-Monitor

VCA 12
V-Case Amping

VCC 12
V-Case Cable



X 1201 / X 1202
Single / Dual Channel
Basis-Amp



Xm 2/12/14/15/17/18
Controller Module for X-Amps



PSS 8448 8-pol >4 x 4 pol 8m
PSS 401-415 1,5/4/8/15m
PSS 801-815 1,5/4/8/15m



CP 84 - CP 84 MC
Connector Panel
+ Multicore



RK-3
Rigging Kit / Cab.



TC 04
2" Truss Clamp



CH 07 + CH 24
Chain 7 + 24 Links



WS 04 - WS 08
5tn Webbing Strap 4m/8m

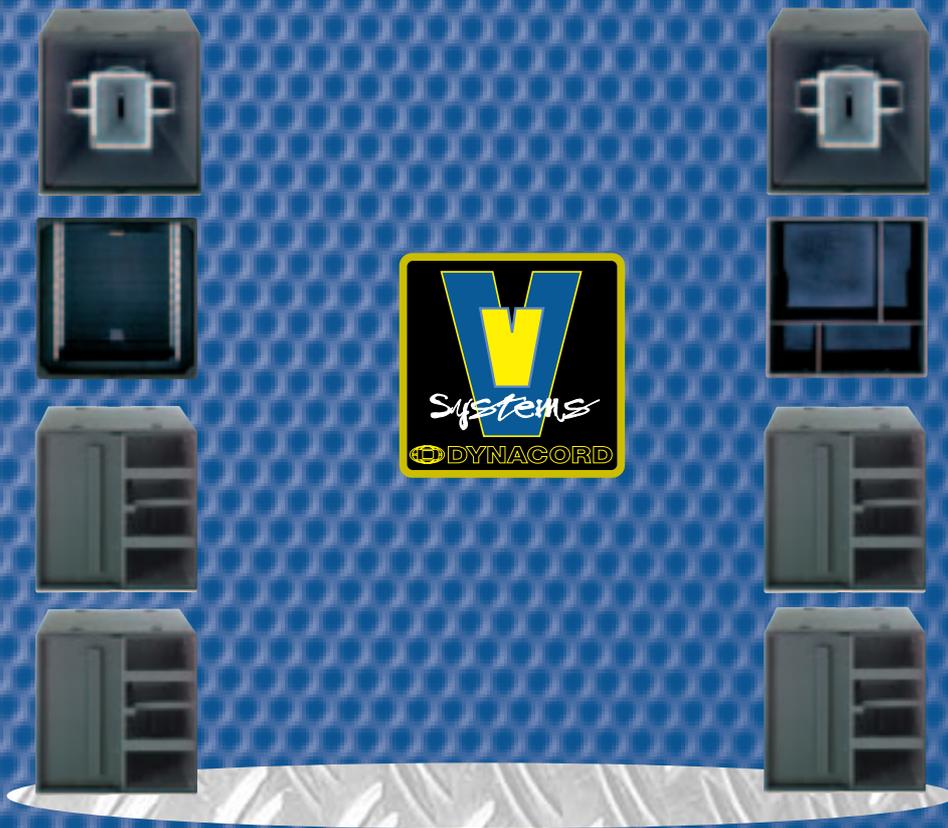


VCW 15
15" Wedge



RP-5B / RP-1B
Repair Paint, 5l / 1l

CONFIGURATIONS



Configuration 1

(Minimal Set)

For smaller events or galas with up to approx. 500 people, 1,000 sqm to be covered and approx. 30m of throw

Equipment:

- 2x V 12-60 P (mid-hi cabinet)
- 4x V 17 PWH (bass-cabinet)
- 1x VCC 12 (cable case)
- 1x VCA 12 (amp case) equipped with :
 - 1x CP 84 (connector panel)
 - + amps for high and low ranges



Configuration 2 (Basic Set)

For medium-sized events with up to approx. 3,000 people, 2,500 sqm to be covered and approx. 50m of throw

- ▶▶ high-cabinets horizontally angled for wider coverage
- ▶▶ high-cabinets vertically stacked for longer throw

Equipment:

- 4x V 12-60 P (mid-hi cabinet)
- 8x V 17 PWH (bass cabinet)
- 2x VCC 12 (cable case)
- 2x VCA 12 (amp case) equipped with :
 - 2x CP 84 (connector panel)
 - + amps for high and low ranges (per each side)

CONFIGURATIONS

Configuration 3

(Medium Set)

For major events, halls, festival tents and open-air concerts with up to approx. 5,000 people, 5,000 sqm to be covered and approx. 50m of throw

Equipment:

8x V 12-60 P (mid-hi cabinet)
8x V 17 PWH (bass cabinet)
8x V 18 PWH (subwoofer)
2x VCC 12 (cable case)
2x VCA 12 (amp case) equipped with :
2x CP 84 (connector panel)
+ amps for high and low ranges as well as separate amps for the subs

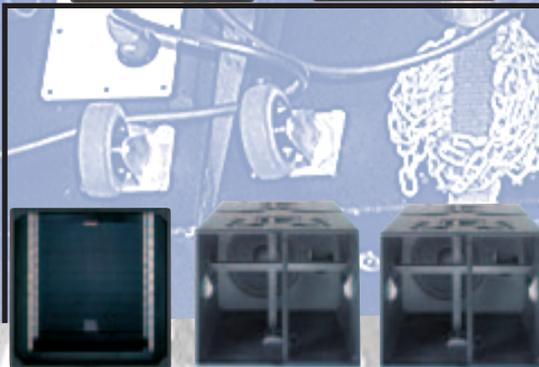


CONFIGURATIONS

Configuration 4

(Ultimate Set)

For major events and open-air concerts with up to approx. 15,000 people, 10,000 sqm to be covered and throws of up to approx. 100 m (flown)



Equipment:

16x V 12-60 P (mid-high cabinet)

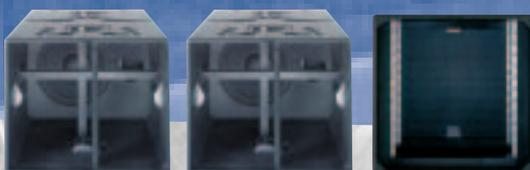
16x V 17 PWH (bass cabinet)

16x V 18 PWH (subwoofer)

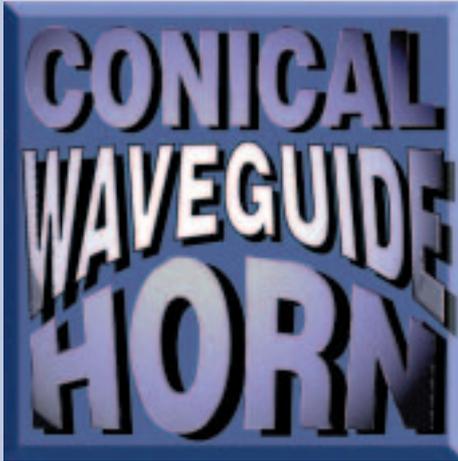
3x V 2-30 P (= 6x farfield cabinet)

8x V 14 (nearfield / sidefill cabinet)

Individually configured amp-racks per each side or
standard VCA 12 racks for high and low-cabinets
+ racks for farfield as well as nearfield / sidefill cabinets



SYSTEM COMPONENTS



Conventional long-throw systems typically obtain their long throw capacity employing horn components with extreme horizontal focusing. The coaxially designed high-cabinets of the V-SYSTEMS use conical horns in the mid-frequency range, offering extended coverage while maintaining their long throw capability and high SPL.

Conical horns provide improved radiation homogeneity without distinct side-lobes or hot-spots and explicitly less distortion than exponential horns. Therefore they behave comparably uncritical, even when mistakenly positioned lacking optimum angles to each other.

V 12-60 P MID-HIGH-CABINET



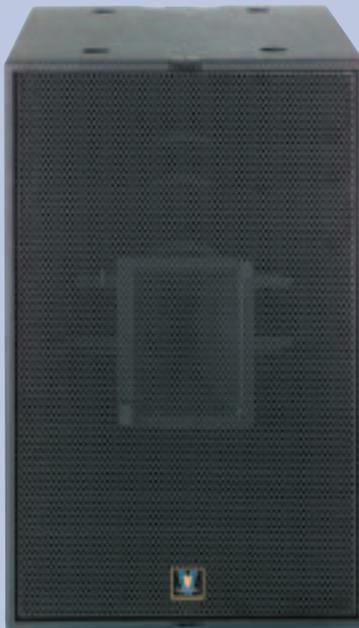
Coaxially designed 12"/2" Mid-High-cabinet for throws of up to 50m.

This 8 ohm-cabinet has a power handling capacity of 350 watts RMS / 700 watts continuous program and delivers a nominal SPL of 106 dB 1W/1m (max.: 134 dB / 1m). With its nominal radiation angle of 60° horizontal x 40° vertical, the cabinet provides a transmission range of 100 Hz – 19 kHz (- 10 dB).

Mid-range reproduction between 100 Hz and 800 Hz is taken care of by an Electro-Voice DL 12 ST speaker firing into a Conical Waveguide horn.

The high-frequency range above 800 Hz is reproduced by an Electro-Voice 2" driver – DH 6-8 – which radiates into a coaxially mounted 60° x 40° Constant Directivity horn – HP 64.

V 24-60 P MID-HIGH-CABINET



Coaxially designed Dual 12" / 2 x 2" Mid-High-cabinet for particularly powerful Lo-Mid reproduction

This 4 ohms-cabinet has a power handling capacity of 700 watts RMS / 1400 watts continuous program and delivers a nominal SPL of 108 dB 1W/1m (max.: 139 dB / 1m). With its nominal radiation angle of 60° horizontal x 40° vertical, the

cabinet provides a transmission range of 100 Hz – 19 kHz (- 10 dB).

Mid-range reproduction between 100 Hz and 1600 Hz is taken care of by two Electro-Voice DL 12 ST speakers firing into one common Conical Waveguide horn.

The high-frequency range above 1600 Hz is reproduced by two Electro-Voice ND 6-8 2" driver, which radiates into a coaxially mounted 60° x 40° Constant Directivity horn – HP 64.

SAFETY

All V-SYSTEM loudspeaker components employ thermal breakers or halogen arrays offering reliable protection against critical peak levels and short-term thermal overload. System cabling is based on the 8-pole Speakon-type connectors offering the possibility to carry through the audio signals at each cabinet. As a result using a single 8-pole speaker cable allows feeding entire stacks of low, high, near-field and far-field cabinets without the risk of inadvertent phase mismatching.

ROADABILITY

The enclosures of all V-SYSTEM components are manufactured from 18mm birch multiplex plywood. All enclosure connections are grooved and glued. The surface is covered with an extremely hardwearing, non-slip lacquer finish. Frontal protection for all V-SYSTEM components is provided through powder-coated metal grilles. Wooden cover-boards with butterfly-locks provide additional protection during transportation. Four 100mm castors (blue wheels) are located on the rear panel and a metal carrying handle on each side of the enclosures.

RIGGING

All cabinets (except for the subwoofers and monitors) are prepared for operation with the TÜV-certified MAN-Rigging System.

Planar Waveguide™ Horn



The Planar Waveguide™ technology is one of DYNACORD's patents, which offers spectacular advantages especially between 30 Hz and 120 Hz:

6 dB more SPL – providing identical terminal voltage when compared to conventional vented cabinet designs. For example: When using conventional, large-scale vented bass cabinets, the power amp output has to be four times higher to achieve the SPL of a Planar Waveguide™ bass horn.

Less excursion – speaker dome excursion in Planar Waveguide™ bass horns is far less than with conventional vented bass cabinets, which drastically reduces distortion and therefore contributes to an extended life span of the chassis.

Directivity - Planar Waveguide™ bass horns offer immense long-throw coverage because of their optimum directivity and notably less bass-overhang on the stage.

No Magic - Planar Waveguide™ bass horns can be driven using any power amplifier, they can be integrated in any combination of loudspeaker systems. Efficiency, directivity and acoustic performance are design-related and not dependent on external controllers or "black boxes".

V 17 PWH LOW-CABINET

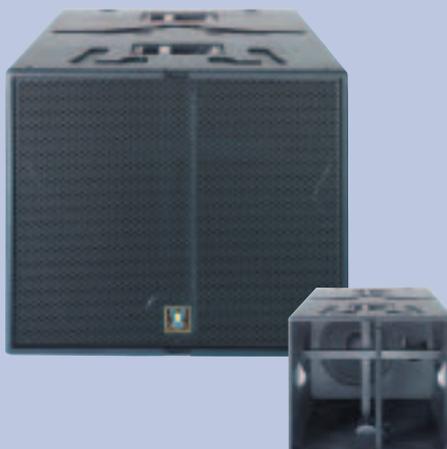


The V 17 PWH is a low component, which, in the V-SYSTEM, is responsible for the powerful reproduction of the upper bass range.

This 8 ohm-cabinet has a power handling capacity of 500 watts RMS / 1000 watts continuous program and makes for a nominal SPL of 99 dB 1W/1m (max.: 129 dB / 1m) with a transmission range of 39 Hz – 255 Hz (- 10 dB)

The low frequency range is reproduced by an Electro-Voice EVX 180 B 18" speaker firing into a Planar Waveguide™ short-horn. Because of its low profile enclosure the V 17 PWH is perfectly suitable for recumbent bass arrays, e.g. in front of a stage. When flown in a wing array, it can also be used to provide the spectrum of the human voice with more volume.

V 18 PWH SUBWOOFER



18" subwoofer providing fundamental ultra-low bass and noticeable punch over wide distances

The 8 ohm-subwoofer has a power handling capacity of 500 watts RMS / 1000 watts continuous program and delivers a nominal SPL of impressive 103 dB 1W/1m (max. 133 dB / 1m) with a transmission range of 40 Hz – 2 kHz (- 10 dB)

The V 18 PWH employs an Electro-Voice EVX 180 B 18" long-throw chassis mounted on a Planar- Waveguide™ horn. Grooved millings on the enclosure's top panel allow easy stacking of additional V-SYSTEM cabinets and variable splay angles of up to +/- 30° to the reference axis.

V 28 PWH SUBWOOFER



Dual 18" subwoofer in "push-pull" technology.

This 4 ohm-subwoofer has a power handling capacity of 1000 watts RMS / 2000 watts continuous program and delivers a nominal SPL of 103 dB 1W/1m (max. 136 dB / 1m) with a transmission range of 35 Hz – 1.7 kHz (- 10 dB)

The V 28 PWH employs two Electro-Voice EVX 180 B 18" long-throw chassis mounted on a common Planar-Waveguide horn. The two woofers work in "push-pull" - operation, which reduces non-linear distortion as is often found when driving a system just below clipping.



FARFIELD * NEARFIELD * MONITOR

V 2-30 P FARFIELD CABINET



2x long-throw Hi-cabinets for long-throws exceeding 50m.

As an additional component to the V-SYSTEM high-cabinet V 12-60 P, the V 2-30 P is designed to compensate for the level reduction in the high-frequency range over wider distances. It is also very useful to improve the treble sound quality in the rear area of the auditorium in typical multi-purpose hall applications or in huge festival marquees.

The 8 ohm farfield cabinet has a power handling capacity of 350 watts RMS / 700 watts continuous program and delivers a nominal SPL of 112 dB 1W/1m (max. 140 dB / 1m).

The Conical-Waveguide horn with a nominal radiation angle of 30° x 30° is powered by an Electro-Voice DH 6-8 2" driver. The x-over frequency of the integrated passive frequency crossover is at 5 kHz.

When using a separate far-field power amp, audio signal feed for the far-field cabinet is provided via the 8-pole system cabling (Pins 4+/4-). When simply parallel-connecting the far-fields to the V-SYSTEM high-cabinets, changing the pin-assignment to 2-/2- is possible via a switch that is located on the connection-panel.

Easy transportation is guaranteed through stacking two far-field cabinets on top of each other. They are interlocked via two butterfly-locks on the rear and with a front

cover on the forefront. Two single cabinets result in the identical transport size as a single V 12-60 P or V17 PWH.

V 14 NEARFIELD CABINET



The V 14 is perfectly suitable to provide sound reinforcement directly in front of a stage and as sidefill or delay-cabinet.

The 8 ohm nearfield cabinet has a power handling capacity of 350 watts RMS / 700 watts continuous program and delivers a nominal SPL of 98 dB 1W/1m (max. 126 dB / 1m). The lower mid-range between 100 Hz and 1.6 kHz is reproduced by an Electro-Voice DL 12 ST 12" speaker. Sound reproduction of the frequency range above 1.6 kHz is taken care of by an Electro-Voice DH 6-8 2" driver firing into a 90° x 90° Constant Directivity horn.

The pin-assignment can be matched to suit different applications. With system configurations that employ a separate near-field amp, connection is established via pins 3+/3- or just parallel to the high-cabinet via pins 2+/2- of the 8-pole system connectors. The additional 4-pole connectors are meant for "stand-alone"-operation.

The V 14 is factory-prepared for retrofitting the RK-3 rigging-kit to be used across as lowest cabinet in flown applications.

VM 15 FLOOR MONITOR



15" / 2" stage wedge for passive or active 2-way operation

In "normal" operation this 8 ohm floor monitor has a power handling capacity of 400 watts RMS / 800 watts continuous program delivering a nominal SPL of 102 dB 1W/1m (max. 131 dB / 1m).

The lower mid-range between 65 Hz and 3 kHz is reproduced by an Electro-Voice DL15Y 15"-speaker. Sound reproduction of the frequency range above 3 kHz is taken care of by an Electro-Voice DH 6-8 2" driver firing into a Constant Directivity horn HP 66 with a nominal radiation angle of von 60° x 60°.

Three positioning angles that have been optimized for various practical use and a recessed pole-mount adapter permit a wide range of applications. Selecting passive or active 2-way operation is possible via a built-in switch.

The X 1202 – a model of the DYNACORD Modular Amplifier Series – with Xm15 EQ-module is best suited for driving the VM 15. This module allows changing the cabinet's equalization from "hard" to "decent" by the push of a button to serve different gala-applications.

PROFESSIONAL RIGGING ACCESSORIES

FS-3

The FS-3 rigging system is fully TÜV-certified and consists of 2 trusses with TC 04, CH 07 respectively CH 24 and RK-3 rigging-kits. At a safety factor of $s=4$ it can hold a total weight of 2,200 kg.



The sound systems at many open-air events as well as in professional festival tent sound reinforcement applications are used in flown operation. The V-SYSTEM is perfectly suitable for rigging.

DYNACORD decided to employ the prevalent and "officially" approved MAN-system. The speaker cabinets V 12-60 P (mid-high cabinet), V 2-30 P (farfield), V 17 PWH (bass cabinet) and V 14 (near-field) are factory-prepared for retrofitting the optionally available RK-3 rigging-kit in such a way that all the user has to do is to replace the plastic blind covers with CF 4T fittings.

The RK-3 rigging-kit consists of two cabinet-fittings and two heavy-duty studs. An installation manual and a TÜV-certificate are also included.

Optionally available as an accessory are TÜV-certified chains in different lengths with "safety hooks", 5-ton straps and 2" truss clamps.

The 7-link chain CH 07 serves as the first, short chain between the truss and the topmost speaker cabinet as well as between the V 2-30 P (farfield cabinet) to the following cabinet. The longer, 24-link chain CH 24 is used as a interconnection for all

other cabinets (V 12-60 P high-cabinet and V 17 PWH low-cabinet)

The length of the chains is calculated so that the maximum bracing of the entire wing results in a vertical splay angle between cabinets of 5° . With a vertically oriented rig consisting of three V 12-60 P high-cabinets, the vertical splay angle consequently changes from nominal 40° to a total of 50° ($40^\circ + 2 \times 5^\circ$).

The optionally available 5-ton webbing straps are available in two different lengths and are used to vertically angle the entire rig. The short version WS 04 (4m) is recommended for 1-2 flown cabinets while the longer WS 08 (8m) is more suitable for arrays of 3-5 flown cabinets. The corresponding strap is pulled through the strap-point on the rear panel of each cabinet housing, pulled over the truss and lashed, depending on the desired angle.

Configuring the TÜV-certified (certificate No. B 97 09 10591 008) flying system FS-3 is possible by using these different parts, only. The entire weight of a wing is distributed among the rigging system's truss clamp, chains and studs. Each cabinet is individually lashed to the rig.

- TC 04  2" truss clamp with M12 ring nut
- CH 07  7-link chain with 2 safety snap hook
- CH 24  24-link chain with 2 safety snap hook
- WS 04  5tn strap 4m
- WS 08  5tn strap 8m
- RK 3  Rigging Kit



ACCESSORIES

VCW 15 15° WEDGE

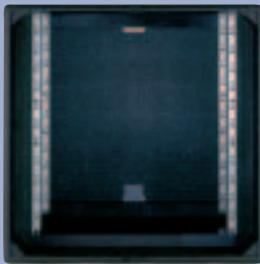


The VCW 15 wedge facilitates the stacking of mid-hi cabinets to suit different requirements concerning radiation angle and aiming. The VCW 15 can be used in both ways creating a vertical angle of 15° up or downwards.

For instance, this allows you to safely direct the topmost cabinet in a stack – e.g. a V 2-30 P (farfield cabinet) – downwards without a problem. For additional security it is possible to fasten the cabinets and the VCW 15 using straps.

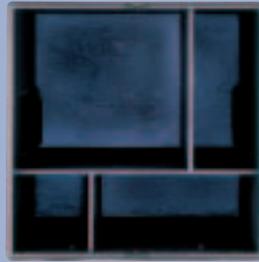
Used on platforms or in the stands and for the sound reinforcement of balconies, the high-cabinet can be angled upwards by 15° without loss of stability.

VCA 12 V-CASE-AMPING



The VCA 12 amp case is designed for the installation of the systems power amps and connector panels offering an installation space of 12U. Moreover, when used in a stack of e.g. 2x V 17 PWH plus 1x V 12-60 P, it creates the necessary height for the high-cabinet (above the heads of the audience). The VCA 12 exactly matches the high and low-cabinets in optics and size and therefore seamlessly integrates into the stack.

VCC 12 V-CASE-CABLE



Like the VCA 12 amp case, the VCC 12 cable case is meant to serve as transport case for cables, chains, straps and other gear. It can also be used to elevate the high-cabinets in a stack. (see BASIC SET V-SYSTEM) The inside of the VCC 12 is divided into four subdivisions, which ensures safe transportation and quick and easy location of the transported goods.

RP-01 / RP-05 REPAIR VARNISH



Single-component repair varnish, black, in 1 or 5-liter tin for the post-treatment of all V-SYSTEM components.

CP-84 CONNECTOR PANEL STANDARD



The CP 84 connector panel has been designed as a universally configurable

interface panel for amplifier racks. Integrated in a V-SYSTEM amp rack it serves as the central interface for all necessary connections like LF-signals, speakers, amplifier outputs, mains supply and mains distribution. The basic version of the CP 84 allows the connection of high and low-cabinets (8-pole sockets), subwoofers (4-pole sockets) as well as up to three stereo power amps (6 channels). Using the optionally available PSF 201 cables (Speakon-type to flat-connector, 1.2m) it is possible to connect additional power amplifier outputs to the Speakon-type system connectors on front.

Also mounted on the front side, the CP 84 panel provides a 16 A CEE mains connection, which is factory-assigned to four 230V mains sockets (L1, L2, L2, L3) via internal terminal-board. Reconfiguring the assignment is possible through changing the connections on the internal terminal-board (e.g. all mains sockets to phase 1)

CP-84 MC CONNECTOR PANEL MULTI-CORE



The CP 84 MC multi-core connector panel is identical to the CP 84 standard panel except that two 25-pole Harting multi-pin connectors (male and female) are mounted on the front instead of the 16 A CEE mains connector. These multi-pin connectors carry the input signals of Ch.A and Ch.B plus the signals of five additional active channels, which are also accessible via XLR-cables on the rear of the CP 84 MC. All pins, including the ones that are not connected, are linked to the two Harting-type sockets.

Mains connection is provided through a 16 A CEE connector on the rear and a 16 A CEE output (power IN and power linked, with 1.5m cables each). The internal assignment of 230V mains sockets is identical to the assignment of the CP 84 standard panel.

AMPING

AMPING

System-Amps
+ Modules



X1201
1x1200W



X1202
2x600W



+Xm2/12
Xm17/Xm18
Xm14 und Xm15

+ Connector Panel CP 84



to connect amplifier outputs to system wiring

Controller
+Linear Precision Amps

DSP 244



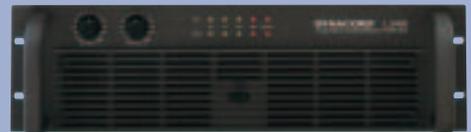
+
L1000



L1600



L2400



Any "rigging-capable" components like far-field, near-field, high and low-cabinets are equipped with 8-pole system connectors. All "floor cabinets" (subwoofers and floor monitors) are connected via 4-pole system sockets.

NL 8 MPR 8-pol		V 12-60 P High-Cabinet	V 24-60 P High-Cabinet	V 17 PWH Low Cabinet	V 2-30 P Farfield	V 14 Nearfield
Pins 4+ / 4-		not conn.	not conn.	not conn.	2" HIGH	not conn.
Pins 3+ / 3-		not conn.	not conn.	not conn.	not conn.	12" + 2"
Pins 2+ / 2-		12" + 2"	2x12"+2"	not conn.	PIN 2 MODE**	PIN 2 MODE**
Pins 1+ / 1-		not conn.	not conn.	1 x 18"	not conn.	not conn.
** = Farfield- resp. Nearfield are parallel to the High Cabinet at Pin 2						
NL 4 MPR 4-pol		V 18 PWH Subwoofer	V 28 PWH Subwoofer	VM 15 active Mode	VM 15 passive Mode	V 14 Nearfield
Pins 2+ / 2-		not conn.	not conn.	2" HIGH	not conn.	not conn.
Pins 1+ / 1-		1 x 18"	2 x 18"	16" LOW	15" + 2"	12" + 2"

All pins, including the ones that are not connected, of any connector in the entire V-SYSTEM are completely wired which allows looping through (IN / OUT) the audio signals to feed additional speaker channels.

SPECIFICATIONS

	V 12-60 P	V 24-60 P	V 17 PWH	V 18 PWH	V28PWH
	12" Mid-High Cabinet	2-12" Mid-High Cabinet	1x18" Low Cabinet	1x18" Subwoofer	2 x 18" Subwoofer
Nominal impedance:	8 Ohms	4 Ohms	8 Ohms	8 Ohms	4 Ohms
Rated power:	350 Watts	700 Watts	500 Watts RMS	500 Watts RMS	1000 Watts RMS
capacity	EIA RS-426 A	EIA RS-426A			
Program power:	700 Watts	1400 Watts	1000 Watts	1000 Watts	2000 Watts
capacity					
SPL 2.83 V/1m:	106 dB	111 dB	99 dB	103 dB	103 dB
Max. SPL 1m:	134dB	142 dB	129 dB	133 dB	136 dB
(calculated)					
Frequency range :	100 Hz - 19 kHz	100 Hz - 19 kHz	39 Hz - 255 Hz	40 Hz - 2 kHz	35 Hz - 1,7 kHz
(-10 dB)					
Dispersion angle:	60° x 40° (HxV: 1 kHz)	60° x 40°			
Crossover	800 Hz,	1.6 kHz		80-160 Hz,	
frequencies:	18dB/Octave	24 dB/Octave		18 dB/ Octave	
Components LOW			EVX 180 B OEM	EVX 180 B OEM	2 x EVX 180 B OEM
Components MID:	DL 12ST	2 x DL 12ST			
Components HIGH:	Horn: HP 64 Driver: DH6-8/2	2 x ND6-8			
Connections:	2 x Speakon connectors				
	NL 8 MPR-8 Poles	NL 8 MPR-8 Poles	NL 8 MPR-8 Poles	NL 4 MPR-4 Poles	
Cabinet style:	18 mm birch plywood				
	2 handles, 4 castors	4 handles, 4 castors	2 handles, 4 castors	8 handles, 4 castors	4 handles, 4 castors
Outfit:	Cabinet surface black varnished Powder-coated steel grille				
Dimensions (WxHxD):	600x600x826mm (incl. castors, & front cover)	600x900x826mm (incl. castors, & front cover)	600x600x826mm (incl. castors & front cover)	720x600x1306mm (incl. castors & front cover)	1200x600x1306mm (incl. castors & front cover)
Weight:	64.5 kg (without front cover)	86.0 kg (without front cover)	52.0 kg (without front cover)	70.0 kg (without front cover)	113 kg (without front cover)
Accessories:	4 rubber feet (ABS)	4 rubber feet (ABS)	4 rubber feet (ABS)	6 rubber feet (ABS)	6 rubber feet (ABS)
spec. Accessories:	Rigging Kit-RK3	Rigging Kit-RK3	Rigging Kit-RK3		
	Order No.: 112 675	Order No.: 112 675	Order No.: 112 675		
Warranty	36 months				

	V 14 2-Weg Nearfield Cabinet	V 2-30P 2" CWH Farfield CABINET	VM 15 15" / 2" MONITOR active/passive
Nominal impedance :	8 Ohms	8 Ohms	8 Ohms 8 Ohms Low / 8 Ohms High
Rated power capacity :	350 Watts EIA RS-426 A	350 Watts RMS	400 Watts EIA RS-426 400 W Low / 75 W High
Program power capacity :	700 Watts	700 Watts	800 Watts 800 W Low / 150 W High
SPL 1W/1m :	98 dB	112 dB	102 dB 102 dB Low / 112 dB
Max. SPL 1m :	126 dB (calculated)	140 dB (calculated)	131 dB (calculated)
Frequency range :	65 Hz - 19 kHz (-10 dB)	4 kHz - 15 kHz (-10 dB)	65 Hz - 18 kHz (-10 dB)
Dispersion angle:	90° x 90° (H x V, 1 kHz)	30° x 30° (H x V 10 kHz)	60° x 60° (H x V)
Internal X-Over frequency		5 kHz, 18 dB / octave	3 kHz, 12 dB / Octave
Components LOW	DL12ST		DL15Y
Components HIGH :	Horn : HP 99 Driver : DH 1A mt	Horn : 30 x 30 CW-Horn Driver : DH 1 A	Horn HP 66 Driver DH6-8/2
Connections :	2 x Speakon NL 8 MPR 2 x Speakon NL 4 MPR	2 x Speakon 8-pole NL 8 MPR 1 x Pin select switch (2 - 4)	2x Speakon NL 4 MPR
Cabinet style :	18 mm birch plywood, 2 handles, 8 rubber feet	18 mm birch plywood 4 handles, 4 castors	18mm birch plywood 1 handle, 3 rubber feet, 8 rubber feet ABS 1 speaker stand threaded
Outfit :		cab. Surface black varnished Powder-coated steel grid Acoustic foam	Cabinet surface black Powder coated steel Acoustic foam
Dimensions (WxHxD) :	606 x 406 x 354 mm (incl. Front cover & feet)	600 x 605 x 826 mm (incl. Castors & front cover)	665 x 462 x 457 mm
Weight :	34.5 kg	77.8 kg (incl.front cover) 36.6 kg (A/B without front cover)	31.5 kg
Accessories:			
spec. Accessories:	Rigging Kit RK-3 # 112 675 Rigging Kit RK-2 # 112 597	Rigging Kit RK-3 Order No.: 112 675	VFC 15 # 112 775 V-Front-Cover
Warranty	36 months	36 months	36 months

REFERENCES

1997

Theatron Munich, Germany - Longest Open-Air of the World
Manfred Mann, City Open-Air Offenburg, Germany
Opening Night of movie „Air-Force-One“ in Munich, Germany
Love-Parade in Berlin, Germany
Weather-Girls, Basel, Switzerland
Live Open-Air 100 Years Hoffmann LaRoche
Mega-Dance in Weilmünster-Limburg, Germany with Blümchen
DJ Bobo and others.

1998

„Alpenrebelln“ Live Concert
Cinema Open Air in Munich, Germany
Open-Air in Almere, Netherland
Open-Air in Nürnberg, Germany
30 Years of the „schiefen Ebene von Ronquiére“ in Belgium
Guildo Horn Tour with Badensound, Germany
Mulan first run of movie in the Köln Arena, Germany

1999

Event with Michael Mittermeier in the August-Schärttner-Hall in
Hanau, Germany
ECAUSSINNES Spring-Blues Festival in Belgium
Tarzan first run of movie in Munich, Germany „Phil Collins live in
Concert“
Musical Show in „Gewandhaus“ in Leipzig, Germany
Sport Centre in Fleron, Belgium
Open-Air Roskilde, Denmark
Country Festival in Silkeborg, Denmark - Setup for Don Williams
Rock Show with Dodo & the Dodos, Denmark

2000

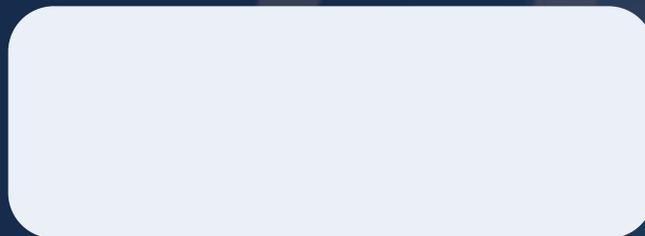
German Soccer League Olympia Stadium Munich
European Indoor Championship in Gent, Belgium
Topsportshall in Gent, Belgium
Mardi Gras at „Viktualienmarkt“ in Munich, Germany
Techno Parade in Zürich, Switzerland
Jazz-Festival in Burghausen, Germany
Radio Regenbogen Open-Air, Feldberg, Germany
„Hautnah“-Musical Tour with the Original Starlight-Band,
Germany
Love-Parade in Berlin, Germany
„Echt“ and „Junimond“ Open-Air in Halle, Germany
„Saxon“ Sweden Rock 2000

2001

Merger Meeting of Crossair/Swissair
Worldcup Skispringen in Titisee-Neustadt, Germany
Status Quo Tour in Scandinavia
„Xuan“ Open-Air in Ho Chi Minh City, Vietnam
Scorpions Concert in Riga, Lettland
Creedence Clearwater Revisited in Riga + in Liepaja, Lettland
St. Jacob Stadion in Basel, Switzerland
Midtfnys Festival with Cool & The Gang, Vanda Sheppard,
Denmark
800 Years Riga, Lettland
Folk Dance Festival in Riga, Lettland
Al DiMeola Concert in Moskow, Russia + in Kiev, Ukraine
Steve Vai Concert in Sofia, Bulgaria
Robert Plant Concert in Riga, Lettland

2002

Silvester in Basel, Switzerland - biggest Rave-event by combining
„Deepdance“ and „Rave Olympia“



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