



ViUV-MAP



Unicorn Voice is a unique distributed wallmounted, panel based voice alarm and fire telephone solution that is compliant to EN54-16.

- Modern 7" touch screen user interface
- Unique 1st fix enclosure/2nd fix chassis
- Optional integral fire telephone handset
- Efficient 25W/50W/100W amplifier modules
- Integral microphone for live announcements
- 4 x audio panel outputs
- Distributed digital network-64 panels
- 256 audio outputs across network
- NAC/FAD output for VADs, vibrating pillows etc
- Up to 64 messages as standard

Overview

Unicorn Voice simplifies the specification and installation of voice alarm and fire telephone systems by offering a one cabinet solution. Comprising a range of master amplifier panels, distributed amplifier panels, desk microphones, wall microphones and remote volume controls. Additionally, the system can be supplied without EVC capability.

The Unicorn Voice system is suitable for a wide range of applications from small standalone buildings through to multistorey and campus style building complexes. The MAP is equipped with everything required for a voice alarm system including amplifiers, message module, power supply, space for integral standby batteries and a microphone so live announcements can be made.

System Architecture

A Unicorn Voice system would typically consist of a master amplifier panel for site control, networked with either further MAP/MAP-T panels or distributed amplifier panels DAP/DAP-T. This system architecture provides for expansion for small to large sites with ease.

Networking

Unicorn Voice can be networked using either copper, multimode fibre or single mode fibre, this is simply achieved by adding din rail modules. This provides flexibility as for instance copper may be used to network within a building, then fibre could be used for longer lengths between buildings.

The network is dual redundant fault tolerant which uses $6 \times 8 \times 10^{-5}$ x audio channels for VA and 2 channels for EVC functions, this enables simultaneous automatic broadcast of evacuate, alert messages and live announcements without any interruption.

Touch Screen User Interface

Control and indication functions utilise a 7" TFT touch screen, this intuitive user interface makes use of icons wherever possible, which simplifies the user experience. Different user permissions mean the system can be customised dependent on user level. Extensive logging of all functions can be accessed via the screen, this information is stored on the micro SD card and can be analysed in a daily spreadsheet format.







ViUV-MAP

Amplification and NAC/FAD Outputs

The master amplifier panel can be specified with or without amplifier modules to suit customer requirements. The amplifier modules are available as 100-watt, 50-Watt and 25-watt, the MAP can be specified in a dual or quad format up to a maximum size of 400 Watts in a single cabinet. See Ordering Information for standard configurations. The use of individual amplifiers per loudspeaker output allows for equalization of sound in difficult acoustic spaces which can be broadcast over any of the six available channels. This enables simultaneous alert, evacuate messages with live announcements without interruption, something not achievable with relay switched amplifier designs.

In addition, one standby amplifier can be specified per cabinet to back up any of the four amplifier modules. A NAC/FAD output for driving visual alarm devices or similar is provided per amplifier. This enables VADs to alert people who are hard of hearing during a live announcement, which may be difficult to achieve if VADs are driven from the fire alarm system. If additional loudspeaker circuits are required an A/B speaker splitter module can provide 2 x independently protected outputs per amplifier.

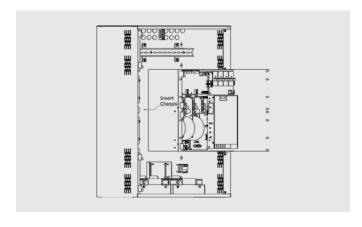
Emergency Voice Communication

Where phased evacuation is specified, voice alarm and fire telephone systems are needed therefore a system which can meet both requirements is advantageous. Unicorn Voice master amplifier panels can be specified with a telephone handset and an integral EVC module to provide eight lines per panel for fire telephone, disabled refuge and emergency assistance alarms. All amplifier panels can be specified with an EVC module which gives a system capacity of 512 lines across the network, a full range of compatible outstations is available.

Innovative Cabinet Design

As Unicorn Voice is a wall mounted system, weight and ease of installation are big considerations. Vox Ignis designers have a unique solution. The MAP is supplied in two parts whereby the cabinet is supplied empty other than a din rail. Thereby the installation of the back box, including all the cabling, can be carried out without any risk of damage to the electronics. The amplifiers, motherboard, battery charger and power supply are contained within a secondary chassis which is fitted at commissioning stage alongside the display module which houses the touch screen.





Multifunction Switch Modules

Master Amplifier panels can be specified with optional switch modules in banks of 16. They are multifunctional and configurable on site to cover paging, messages, music and EVCS. The switches can provide simplified control for those less familiar with the system such as fire and rescue.

Digital Signal Processing

At the heart of Unicorn Voice there is a powerful Digital Signal Processor. All audio is processed here providing compression, limiting and gating. Five band parametric EQ is provided on all inputs and seven band parametric EQ on the outputs. It also features an 11x10 digital audio matrix.



Easy Configuration

The touch screen display allows for extensive configuration menus. An engineer can configure VA and EVC functions from a single panel through to a multi-panel network all from one position without the need for a PC, all configuration being held on a micro SD card.





ViUV-MAP

Technical Specification

Details	ViUV-MAP	ViUV-MAP-T
Power		
AC supply voltage	100-240V	AC + or -10%
AC supply frequency	50/	60Hz
Batteries		
Capacity	2× 12V 7Ah, 12Ah,	17Ah, 24Ah VRSLA
Standby time	Unicorn Voice ba	calculation using attery sizing calcu- ator
Controls and Indications		
_	AC, DC, F	PSU Status
Statutory Indicators	General, CPU fault	
	VA, EV	C Status
Touchscreen	All controls via 7	" TFT touchscreen
Audio Inputs		
BGM		1
Front panel microphone		1
External microphone		1
Fire input-opto- isolat- ed sounder circuit with optional pull up		4
Reset input		1
Auxiliary inputs		4
Input sensitivity	Oc	dBV
Max input level	+3	dBV
EQ	5 band p	parametric
Dynamics	Gate / Comp	ressor / Limiter
Messages		
Message module	Fitted as	standard
_		jes (8 Evacuate, 8 General purpose)
Storage	16-bit sample 32	K WAV file (512kbs)
		held on Micro SD ard
Amplification		
Quantity	Un	to 4
Power		W +
	25W, 50W, 1	100W Type D er panel 400W
Efficiency	25W, 50W, 1	100W Type D
Efficiency Loudspeaker line monitoring	25W, 50W, Max power po 25W 50W >85%	100W Type D er panel 400W 100W
Loudspeaker line moni-	25W, 50W, Max power po 25W 50W >85% DC EOL re	100W Type D er panel 400W 100W >81%
Loudspeaker line monitoring	25W, 50W, Max power po 25W 50W >85% DC EOL re	100W Type D er panel 400W 100W >81% esistor 22kΩ
Loudspeaker line monitoring Loudspeaker voltage	25W, 50W, Max power po 25W 50W >85% DC EOL re 70V 70Hz t	100W Type D er panel 400W 100W >81% esistor 22kΩ

Details	ViUV-MAP	ViUV-MAP-T	
Audio Output Processing	J		
EQ	7 band	parametric	
Dynamics	Compre	ssor/Limiter	
Outputs			
Fault Relay	1 × Volt fr	ee NC, Com	
Relay 1	J	Programmable Volt free NO, Com - Default operation-VA	
Relay 2		ole Volt free NO, It operation-EVC	
EVC Module			
Number of EVC Lines	N/A	8 per panel (512 lines total system capacity)	
Cabling	N/A	1 x 2 core 1.5mm screened fire rated	
Line Monitoring	N/A	10kΩ 0.5W resistor	
Network			
Max no of amplifier panels		64	
Channels	6× Auc	lio, 2× EVC	
Max distance	Сорр	er 250m	
between panels	Single-mode fibre 4km		
		de fibre 1.6km	
Speed		M Baud	
N. J. J. J.	1.1	ore 1.5mm screened rated	
Network cables	Single-mode	fibre - 9/125µm	
	Multi-mode fi	bre - 62.5/125µm	
Environmental			
Operating temperature	-5°C t	so +40° C	
Humidity range		on-condensing	
Ingress protection	l	P3X	
Environmental			
Back box finish		Graphite Grey	
Dimensions (H×W×D)		0mm × 220mm	
Entries		r, 2× mains	
Weight without batteries	Max	k 30KGs	





ViUV-MAP

Technical Specification

Part Code	Description
Distribute Amplifier Pa	nels
ViUV-MAP-SO	Master panel - O switches
ViUV-MAPSO-D25	Master panel – O switches, dual 25W amplifiers
ViUV-MAPSO-Q25	Master panel - 0 switches, quad 25W amplifiers
ViUV-MAPSO-D50	Master panel - O switches, dual 50W amplifiers
ViUV-MAPSO-Q50	Master panel – 0 switches, quad 50W amplifiers
ViUV-MAPSO-D100	Master panel – O switches, dual 100W amplifiers
ViUV-MAPSO-Q100	Master panel - 0 switches, quad 100W amplifiers
ViUV-MAP-T-SO	Master panel - fire telephone, O switches
ViUV-MAP-TSO-D25	Master panel - fire telephone, O switches, dual 25W amplifiers
ViUV-MAP-TSO-Q25	Master panel - fire telephone, O switches, quad 25W amplifiers
ViUV-MAP-TSO-D50	Master panel – fire telephone, O switches, dual 50W amplifiers
ViUV-MAP-TSO-Q50	Master panel – fire telephone, O switches, quad 50W amplifiers
ViUV-MAP-TSO-D100	Master panel – fire telephone, O switches, dual 100W amplifiers
ViUV-MAP-TSO-Q100	Master panel - fire telephone, O switches, quad 100W amplifiers
MAP Factory Fit Option	ns

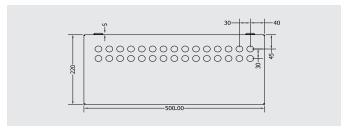
Add -HS to end To add hot swap (standby) amplifier of part code Replace -SO with the following: To add 16 switches to master panel -S16 -S32 To add 32 switches to master panel -S48 To add 48 switches to master panel To add 64 switches to master panel -S64 -S80 To add 80 switches to master panel -S96 To add 96 switches to master panel -S128 To add 128 switches to master panel

For example-ViUV-MAP-T-	S128-Q100-HS

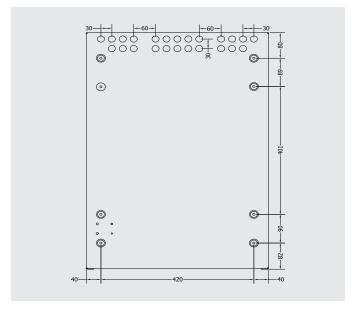
A-B loudspeaker splitter module	
VIUV-SPT A-B loudspeaker splitter module (max 1 per amplifier)	
VIUV-CMI Galvanically isolated copper network interface	
VIUV-SMI Single-mode fibre interface network module	rk
VIUV-MMI Multi-mode fibre interface network module	k
VIUV-AMP-25 25W complete amplifier assembly	
VIUV-AMP-50 50W complete amplifier assembly	,
VIUV-AMP-100 100W complete amplifier assemb	У

Mechanical Details

Top view



Rear view



ISO view

