



SIP & PULSE

VoIP systems use SIP Technology to connect with compatible devices that can reach anyone, anywhere, at any time.

When communication gets critical, ask yourself:

Can I hear, be heard and be understood?

How do we provide intelligible audio every time, in any type of environment? Our Turbine Stations achieve this via a combination of three aspects: Hardware, Software and Mechanics.

HARDWARE

Use the right components

DIGITAL MEMS MICROPHONES are much less susceptible to electro-magnetic interference and cover a much wider range of frequencies, ensuring a high-quality, consistent performance.

A **CLASS-D 10W AMPLIFIER** is very energy efficient, while providing enough volume to deal with loud environments.

A **MATCHING 10W SPEAKER** enables you to use the full potential of your onboard amplifier.

WHAT DOES IT TAKE?

Typical installation environments are affected by varying levels of ambient noise. Providing intelligible audio in a controlled laboratory is easy, but what does it take to deliver intelligible audio in a real-world situation?

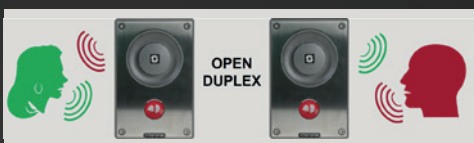
SOFTWARE

Make your product smart



ACTIVE NOISE REDUCTION

A software algorithm suppresses interfering background noise. Vingtor-Stentofon is one of the few manufacturers that offers this feature, for free, on every single IP Intercom Device.



ACOUSTIC ECHO CANCELLATION

Prevents feedback and enables intelligible and hands-free communication, even at high volumes (95dB)



AUTO GAIN AND VOLUME CONTROL

A voice that is too loud or too weak (too close or too far) will be leveled out to an undistorted and clear signal. A station located in an environment with variable background noise will go louder, when needed.

Only the combination of these three aspects allows you to hear, be heard and understood. Every time, at any time and anywhere.

MECHANICS

Let design work for you

ANECHOIC SPEAKER DESIGN provides an open flow of audio to prevent distortion from "standing waves". Traditional Speaker grills will cause mechanical interference of the audio at a higher volume.

A **RIGID STABLE LIGHTWEIGHT FRAME** features rubber microphone damping to isolate microphones from vibrations at loud volumes.

An **ACOUSTICALLY TRANSPARENT POKE SCREEN** makes the speaker vandal resistant while maintaining the open audio flow.

VINGTOR-STENTOFON SIP

Setting the standard for OPEN and TRANSPARENT technology.

SIP Technology is the quintessential example of an open and transparent technology that unifies voice communication. This protocol is integrated and available out-of-the-box, on every single IP Device we manufacture.

Our products are certified for integration in Avaya, Cisco, NEC and Alcatel-Lucent systems and have been used on these platforms for many years. In addition, our products are successfully in use, currently, on other platforms such as Samsung, Mitel, Asterisk and Panasonic.

Our units support G.711 (μ -law and A-law), G.722 and G.729.



The Vingtor-Stentofon SIP Intercom solution has successfully passed compliance testing with Avaya Aura Session Manager and is officially recognized as compliant.



The Vingtor-Stentofon IP Intercom Stations with SIP software version 2.2 have tested compatible with Cisco Unified Communications Manager.



The Vingtor-Stentofon SIP Intercom solution is compatible with the following NEC platforms:
All NEC IP PBX Family
3C : Softswitch
SV8300 : IP PBX
iS3000 : Hybrid PBX



Selected stations are compatible with Alcatel-Lucent OmniPCX Enterprise R10.

Additional advantages of choosing Vingtor-Stentofon:



IN-HOUSE DEVELOPMENT

Vingtor-Stentofon's products evolve from our own Research & Development and are designed in-house.



QUALITY ASSURANCE

Vingtor-Stentofon holds many accreditations, type-approvals, and other international regulatory certifications. Our portfolio of certifications grows steadily, each year.



PRODUCT LIFE-CYCLE

Our products are designed from the ground up with thoughtful consideration to full life-cycle and backwards compatibility.



SERVICE

Vingtor-Stentofon proudly offers comprehensive service support for all our products, including system design & setup, on-site installation, commissioning, and service contracts. We also are represented in more than 60 countries worldwide.

WHAT ELSE DOES IT TAKE?

VIRTUAL IO SCRIPTING

We implement this special feature on our Turbine devices to make our units more versatile. In or Outgoing Calls and DTMF can trigger our stations to send a custom script to, e.g., an access control terminal to open a door. Removing the physical connection between our unit and, in this case, an electronic door lock gives you a safer access control solution.

NETWORK SECURITY

Our years of experience from working with large IPBX brands such as Cisco, Avaya and Alcatel have taught us the importance of hardening our devices against network attacks. We work non-stop to implement and upgrade security protocols to keep our devices up to date with modern security standards.

KEEPING YOUR SYSTEM RUNNING

Our stations support a range of features to make it easier to upgrade and maintain the firmware on our units.

We support open protocols such as SNMP, TFTP and RSTP. In addition, we offer various SIP registration methods to enable redundancy (Parallel, Serial, Top-Down and Cisco's SRST protocol).

Our products are highly reliable, with an expected MTBF of 400k hours (MBTF: Mean Time Between Failure).

SCALABILITY

Every SIP Device we offer supports different communication platforms out-of-the-box. One of these platforms, PULSE, is a native, onboard SIP Intercom System that runs on the device itself.

This provides you with an excellent opportunity to get a foot in the door with the customer and start with a small, easy to set up intercom system that can be easily migrated to a larger IPBX platform. See more about this technology further in this document.

HELP & INFORMATION POINTS

Suitable as door entry or emergency points.

ADDRESSING A FUNDAMENTAL NEED

The Turbine Compact series is designed to meet the essential need to provide intelligible voice audio when you need it, where you need it, every time you need it.

A powerful native 10W Class D amplifier matched to a 10W speaker delivers exceptional intercom and PA broadcast level audio from a single compact unit.

Several Turbine models are available for typical installations. From an indoor application, front door video or delivery gate to parking structures and open campus blue-light stanchions, the Turbine series is attractive, robust and flexible enough to meet your installation needs.



1008115020

TCIV-2

- HD Video at up to 25 FPS (720p)
- Wide angle lens (90°)
- MJPEG and H.264 for integration with most Video solutions
- Designed according to Disability Act requirements
- Background noise cancellation
- Dirt, dust and water resistant - rating IP-65
- Stainless steel front plate with one button

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



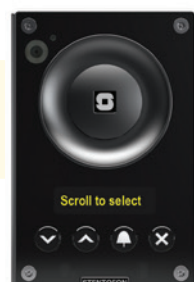
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TCIV-3

- HD Video at up to 25 FPS (720p)
- Wide angle lens (90°)
- MJPEG and H.264 for integration with most Video solutions
- Designed according to Disability Act requirements
- Background noise cancellation
- Dirt, dust and water resistant - rating IP-65
- Black thermoplastic front plate with one button

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



1008115060

TCIV-6

- HD Video at up to 25 FPS (720p)
- Wide angle lens (90°)
- MJPEG and H.264 for integration with most Video solutions
- Designed according to Disability Act requirements
- Background noise cancellation
- Dirt, dust and water resistant - rating IP-65
- Black thermoplastic front plate with scrolling unit for calling to an unlimited number of places
- PMOLED display

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



1008111020

TCIS-2

- Stainless steel front plate with one button
- Ideal for Building Security and Public Environments
- Background Noise Cancellation

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



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TCIS-3

- Black thermoplastic front plate with one button
- Ideal for Building Security and Public Environments
- Background Noise Cancellation

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



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TCIS-4

- Unique labeling solution with PMOLED display
- Ideal for Building Security and Public Environments
- Background Noise Cancellation

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



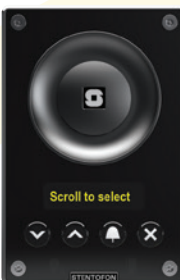
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TCIS-5

- Unique labeling solution with PMOLED display
- Ideal for Building Security and Public Environments
- Background Noise Cancellation

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact



1008111060

TCIS-6

- Black thermoplastic front plate with scrolling unit for calling to an unlimited number of places
- PMOLED display
- Ideal for Building Security and Public Environments
- Background Noise Cancellation

Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact





1008116010

TMIS-1

- Background noise cancellation
- Built to last with robust die-cast aluminum frame
- Supports wide set of IP and networking standards
- White thermoplastic front plate with one button
- Ideal for Building Security and Public Environments

Size (WxHxD): 116 x 116 x 40 mm Wt: 0.3 kg

Accessories: 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140030 TA-3 Turbine Compact Flush Back Box, 1008140120 TA-12 Turbine Mini On-Wall Backbox Black, 1008140130 TA-13 Turbine Mini On-Wall Backbox White



1008116020

TMIS-2 TURBINE MINI

- Background Noise Cancellation
- Vandal Resistant Design
- 11 Gauge Stainless Steel Faceplate

Size (WxHxD): 114 x 114 x 55 mm Wt: 0.5 kg

Accessories: 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140030 TA-3 Turbine Compact Flush Back Box, 1008140120 TA-12 Turbine Mini On-Wall Backbox Black, 1008140130 TA-13 Turbine Mini On-Wall Backbox White



1008041100 / 1008042100

IP VANDAL RESISTANT SUBSTATION

- Vandal resistant design with 2 mm stainless steel front, tamper-proof fastening screws, buttons and loudspeaker grills
- 0 - 50°C environment
- Background Noise Cancellation
- 1008041100: 1 Button
- 1008042100: 2 Buttons

Size (WxHxD): 92 x 180 x 46mm Wt: 0.8kg

Accessories: 1008098100 Flush Mount Back Box, 1008098000 On Wall Back Box



1008051000

IP VANDAL RESISTANT SUBSTATION, 3-GANG BACK BOX

- Vandal resistant design with 2 mm stainless steel front, tamper-proof fastening screws, buttons and loudspeaker grills
- 0 - 50°C environment
- Background Noise Cancellation

Size (WxHxD): 114 x 160 x 63mm Wt: 0.8kg

Accessories: 1008098300 3-Gang Flush Mount Back Box



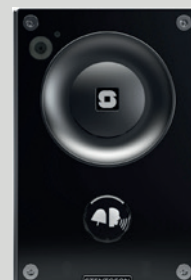
EMERGENCY STANCHIONS

We offer a wide range of Emergency Stanchions that are compatible with our Turbine Compact Series. For more info, visit www.zenitel.com/technology/products-market/stanchions



VIDEO STATIONS

An award-winning design adds video capability to our powerful Turbine Station series. A custom-made camera with excellent low-light performance draws power from 802.3 a-f PoE and uses a single IP address both for audio and video.



DEMANDING ENVIRONMENTS

DEVELOPED TO COPE WITH THE TOUGHEST CONDITIONS

We have a long history of supplying critical communication solutions to demanding environments such as Oil & Gas, Heavy Industry and Pharmaceuticals. These markets require purpose-built devices that can operate in Hazardous Environments (IEC EX), Clean Rooms (Operation Rooms, Laboratories, Semiconductor Plants) and loud, extreme environments (Heavy Industry).

In these environments, communication devices can fulfill several tasks and are often used for both operational and critical functions. They are an essential part of the communication system to keep plants running efficiently and will play a key role in providing critical information during an emergency. In both cases, clear and intelligible audio is critical.

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TFIE-1 INDUSTRIAL TURBINE



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533311 EMMAI-1H Mic, 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

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TFIE-2 INDUSTRIAL TURBINE



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533311 EMMAI-1H Mic, 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

1008072220 / 1008072120

IP HEAVY DUTY TELEPHONE, HOTLINE

- 1008072220:w/ Door, 1008072120:without Door



Size (WxHxD): 205 x 320 x 148mm Wt: 5.4kg

Accessories: 1020600992 IRR-3 Relay Box 24V DC or 220V AC - Signal Unit WT - IP-66

HD
VOICE

PoE

IP67



NEC

1008111010

TCIS-1

- Yellow thermoplastic front plate with one button + M and C



Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140020 TA-2 Turbine Compact Flush Back Box, 1008140050 TA-5 Wall Bracket for Turbine Compact

1008072200 / 1008072100

IP HEAVY DUTY TELEPHONE, FULL KEYPAD

- 1008072200:w/ Door, 1008072100:without Door



Size (WxHxD): 205 x 320 x 148mm Wt: 5.4kg

Accessories: 1020600992 IRR-3 Relay Box 24V DC or 220V AC - Signal Unit WT - IP-66

Our IP OR Master Stations, designed for clean-room environments, are used today in hospitals and pharmaceutical plants around the world.



1008015000

IP OR MASTER WITH DISPLAY

- Connects directly to the IP network, no geographical limitations
- Large, high-contrast display w/ backlight for excellent readability
- Flat, chemical-resistant and anti-bacterial front surface for easy cleaning
- 4 freely programmable single-touch keys (DAK)
- Superb audio technology – possible to talk and listen at a distance (5m)
- Integrated web server for easy configuration and monitoring
- Background Noise Cancellation

Size (WxHxD): 125 x 280 x 30mm Wt: 0.63kg

Accessories: 1008098700 Flush Mount Back Box

The Turbine Ex intercom stations are innovative, rugged devices, designed for harsh environments in both industrial and offshore applications.

The reinforced, lightweight polymer housing is designed to withstand most chemical and environmental hazards found on land and offshore.

Advanced IP audio edge technology puts native processing power at the station to deliver intelligible voice audio over an innovative, 2 wire IP connection.



1008123010

TFIX-1

- Ex IP intercom for potentially explosive atmospheres Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for use with AlphaCom servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123020

TFIX-2

- Ex IP intercom for potentially explosive atmospheres Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for use with AlphaCom servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123030

TFIX-3

- Ex IP intercom for potentially explosive atmospheres Directive 94/9/EC
- Ethernet compatible 2-wire interface
- DIP functionality for use with AlphaCom servers
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

SIP PA & PAGING

VOIP MODULES

Retrofitting or custom applications are a common requirement. The VoIP module puts Turbine power in your application. Add intelligible VoIP audio to your existing infrastructure, build your own IP speaker with upgraded an analog PA amplifier to an IP Addressable SIP amplifier or build your own SIP Intercom Station. The VoIP module, featuring 6 programmable inputs/outputs and relay, packs a 10W Class-D Amplifier.



1008132020

TKIE-2 TURBINE EXTENDED IP KIT

- IP station kit with extended functionality
- Dual RJ45 for Ethernet connectivity (with switch)
- Dual relays (DPDT)
- 6 configurable I/Os (input, output or LED-driving)
- Line-in/Line-out connectivity for connection to audio devices
- Header for connecting audio accessories
- Option to connect high-power relay module TA-10
- High quality Turbine™ class output with 10W amplifier
- Full open duplex and digital noise reduction.

Size (WxHxD): 100 x 65 x 25 mm Wt: 0.1 kg

Accessories: 1008140100 TA-10 Relay Module



1008131020

TKIS-2 VOIP INTERCOM MODULE

- DIN-rail mountable, clips included
- Add VoIP/CCoIP to your parking solution, cash point, vending machine, etc.
- Build your own IP Intercom station or help point
- Make your own 10W IP Speaker
- Control relay and I/Os over IP
- Supports AlphaCom, Pulse and SIP (for use with any IPBX)
- Supports a wide set of IP networking standards
- Remote software upgrade, configuration and monitoring
- Powered from the IP network cable using Power over Ethernet (PoE)
- Advanced audio technology, e.g., automatic gain and volume adjustment, background noise cancellation, open duplex, etc.
- 1008131010 TKIS-1 Turbine Kit (Compact Card)

Size (WxHxD): 117 x 71 x 32 mm Wt: 0.1 kg

Accessories: 1008140170 TA-17 electret mic

SIP PAGING PANEL

Our ECPIR-3P IP Call Panel was developed for our EXIGO IP PA System, perhaps the most advanced IP PA system on the market today. All our IP devices support the SIP protocol, which makes this unit one of the few dedicated SIP PA Panels available. It has dedicated features such as PTT, programmable buttons and a gooseneck microphone to give you the same professional paging experience we offer on our dedicated PA platforms.



1023200033

ECPIR-3P EXIGO CALL PANEL, PTT + 3 BUTTONS, PLUGGABLE MICROPHONE, ETHERNET

- Fully digital call panel for console mounting
- Communication and power over Ethernet
- Three programmable buttons with individual labels and status indicators
- Separate PTT button
- Optional button protection covers
- Indicators for power, call and fault
- Can be used with either handheld or gooseneck microphone
- For single or dual systems
- Up to four EBMDR-8 expansion modules can be connected

Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

Additional Information: IP-32



3005020033

MB-30G GOOSENECK MICROPHONE

- Electret Microphone, 2K ohm
- 5-pin DIN plug
- Microphone for Exigo ECPIR family

Length: 460mm Weight: 0.1kg

Additional information: IP-rating IP-32



1023253008

EBMDR-8 EXIGO BUTTON EXPANSION MODULE, 8 BUTTONS

- Button expansion module for Exigo console mounted access panels
- Powered from master access panel
- Eight programmable buttons with individual labels and status indicators
- Optional button protection covers
- Four units can be connected to one access panel

Size HxWxD: 144 x 96 x 41.5 mm Weight: 0.5kg

Additional information: IP-rating IP-32

FLOWIRE

CONNECTING THE PAST

EXTENDING THE FUTURE

The Flowire Ethernet Converter is a great way to transmit digital signals on an analog network.

1008080110 / 1008080210

FCDC1 / FCDC2 FLOWIRE ETHERNET CONVERTER, DC VOLTAGE

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, up to 1 km, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire bus/star structure
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to Vingtor-Stentofon products)
- FCDC1: 24-48 VDC
- FCDC2: 24 VDC non-PoE for Ex equipment



Size (WxHxD): 110 x 66 x 17mm Wt: 300g

Accessories: 2990101120 XP Power Supply, 2990101240 XP Power Supply, 2990102120 Powerbox PSU, 2990102240 Powerbox PSU

Sometimes it's amazing how much you can achieve with so little.

Since signal conversion is done by the low-cost Flowire Ethernet Converter, you just need to add it to your existing two-wire cabling to extend its use.

One of the biggest expenses when installing a communication system is wiring/cabling. With Flowire, you can achieve huge cost reductions in retrofit projects.

SIP LOUDSPEAKERS

- Ideal for Micro Zone PA and systems that require a limited number of speakers
- Each speaker is individually addressable
- Integrated Class-D 10W amplifier provides superior audio at high +95dB levels
- Ideal for speakers installed in remote locations like roads and railways
- Remote software upgrade, configuration, and monitoring
- Integrated data switch with advanced networking and security functions
- Relay output for remote control, e.g., doors, signal lamps and gates
- Powered from an IP network cable using Power over Ethernet (802.3 a-f PoE)
- Superb audio quality – high bandwidth codec and adaptive jitter filter

1023300010

ELSIR-10C NETWORK CEILING LOUDSPEAKER



Size (Diam x Depth): 199 x 111 mm Wt: 1.4 kg

1023301310

ELSII-10H NETWORK HORN LOUDSPEAKER



Size (WxHxD): 186 x 144 x 207 mm Wt: 1.8 kg

ADD VALUE TO YOUR VOIP SYSTEM

EVACUATION ZONES WITH INTERCOM

Easily identify and quickly dispatch help to those who are unable to evacuate due to inoperative elevators.



STAFF ENTRANCE / SIDE DOOR

Card reader for door opening and Intercom with CCTV provides secure and easy access to the premises.



HELP POINT

Provide a streamlined communication point in case of emergency or need for assistance.



MAIN RECEPTION

A single receptionist can handle all assistance and communication from one location.



Vingtor-Stentofon specializes in providing crystal-clear intelligible voice audio in locations where a standard VoIP SIP phone is not suitable. Our units plug directly into common IP network infrastructure and register with standard SIP servers, resulting in additional capability and adding value to your IP Telephony system.

ELEVATOR COMMUNICATION

Press for instant communication with the control room.



IP ADDRESSABLE SPEAKERS

Facilitate Public Address and General Alarm communication.



STANCHIONS

Dedicated Stanchions stand out in the environment and provide additional security and safety.



ENTRANCE AND GATES

Provide efficient audio and video assistance for visitors or deliveries.



PULSE - SIP INTERCOM SYSTEM



PULSE BASIC & ENTERPRISE

IP COMMUNICATION -RIGHT OUT OF THE BOX

PULSE by Vingtor-Stentofon is a cost-efficient solution for your small- to medium-sized communication requirements. The system allows for as few as two stations and is scalable, according to your needs.

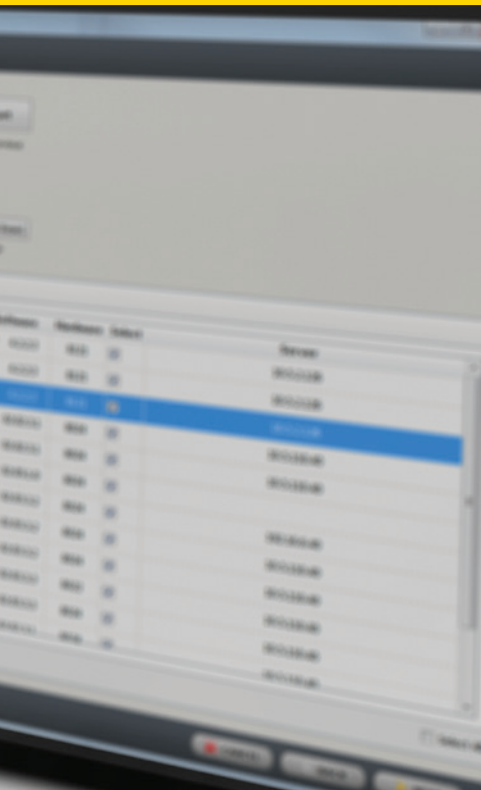
PULSE is a self-contained SIP platform that offers distributed processing to provide intelligible voice audio, along with many features and functions commonly found in larger central server-based systems.

PULSE provides easy plug-n-play deployment using an integrated web based configuration and management tool. A simple browser is all that is needed to configure your system.

PULSE uses your existing IP network infrastructure and utilizes open standards including SIP, HTTP and XML, making it simple to integrate and expand with third-party systems.



OUT-OF-THE-BOX



PULSE SYSTEM DESCRIPTION

- Allows up to:
 - 64 stations per system
 - 10 VS-clients (PC)
 - 10 SIP-clients (e.g., IP Phones)
- No central server equipment required
- System setup possible using a standard web browser in less than 10 minutes
- Additional tool for Discovery, Upgrading & Maintenance in bulk.
- Stations support Active Noise Cancellation
- PULSE mode is available on all our IP Stations
- Wide range of special-purpose intercom stations
- Open for SIP enabled 3rd-party devices
- SIP Trunking to ISDN/GSM telephony gateways
- DTMF support
- Support for dedicated PC Client (VS-Client)
- G711, G722 & G729 codec support
- SDK/API support
- SCRIPTING (Use of Virtual IOs)
- Trunking of PULSE Systems

Why PULSE?

WORKS WITH ALL OUR IP STATIONS

All our IP Stations support PULSE out-of-the-box. The station designated as the system master provides SIP server functions to the other stations in the system or any third-party SIP tele-phones and/or gateways.

The integrated web management server provides centralized functions for system operation and maintenance.

We also offer Vingtor-Stentofon Intercom Management Tool (VS-IMT), an additional software tool for Discovery, Upgrading and Maintenance in bulk.

HIGH DEFINITION VOICE

HD Voice refers to the next-generation voice quality for IP telephony compared to standard digital telephony. HD Voice uses wideband codecs (such as G.722) to reproduce the human voice with larger frequency coverage.

The result is significantly more natural-sounding speech and a wider range of frequencies promoting audio clarity and clear conversation. This is essential in any environment where critical communication is required.

NETWORKING

If you upgrade your PULSE BASIC Server to ENTERPRISE you can link it to another ENTERPRISE Server via Trunking.

This allows you to centralize and provide essential security and communication services to the most remote, and often unmanned, locations.

DEDICATED SDK/API

PULSE ENTERPRISE offers an easy solution to build your own custom-made IP communication platform. Add intercom functionality to your existing software solution and tailor it to fit your requirements.

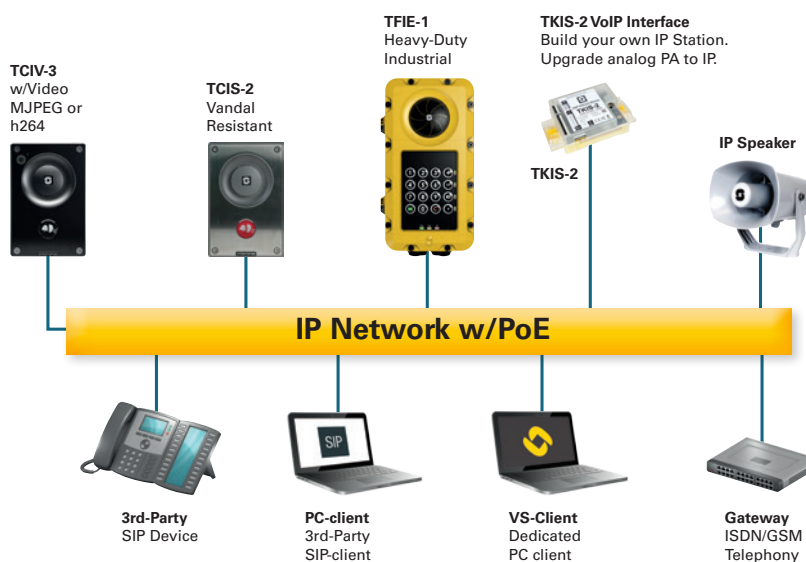
SCRIPTING

PULSE BASIC supports DTMF inputs to activate I/O ports or relays on the station. SCRIPTING takes this one step further by allowing DTMF inputs to activate a custom script.

AFFORDABLE & SCALABLE IP PA SYSTEMS

PULSE Basic offers everything you need to set up an IP basic Public Address system.

Whether you're building a new system from scratch or you want to convert your legacy (analog) PA system to IP, we provide the tools to make it happen.



SIP ACCESSORIES



1008098000

ON WALL BACKBOX

- On wall Mount Backbox for Vandal Resistant Substation, IP and Traditional

Size (WxHxD): 92 x 180 x 52mm Wt: 0.8kg

Related items: 1008041100 IP Vandal Resistant Substation, 1007056100 Vandal Resistant Substation, 1007056200 Vandal Resistant Substation 2 Button

1008140010

TA-1 TURBINE COMPACT ON-WALL BACKBOX

- For on-wall mounting of all Turbine Compact Stations



Size (WxHxD): 120 x 180 x 62mm Wt: 0.8kg

Related items: All Turbine Compact Stations

1008140050

TA-5 WALL BRACKET FOR TURBINE COMPACT

- Wall bracket for Turbine Compact Stations



Size (WxHxD): 169 x 109 x 10 mm Wt: 0.2 kg

Related items: All Turbine Compact Stations

1008140120 / 1008140130

TA-12 / TA-13 TURBINE MINI ON-WALL BACK BOX

- TA-12 Black / TA-13 White



Size (WxHxD): 124 x 122 x 65 mm Wt: 0.4kg

Related items: Turbine Mini Stations TMIS-1 & TMIS-2

1401199111

ON WALL HOUSING

- On wall housing for IP Vandal Resistant Video Station



Size (WxHxD): 138 x 248 x 41 mm Wt: 1 kg

Related items: 1401110100 IP Vandal Resistant Video Station, 1401110200 IP Vandal Resistant Video Station

1008140100

TA-10 RELAY MODULE

- Designed for use with Turbine Industrial IP Intercom stations
- Powered by Turbine Industrial stations (TFIE-x) or Turbine Extended Kit (TKIE-x)



Size (WxHxD): 100 x 50 x 40 mm Wt: 0.1 kg

Related items: 1008122010 TFIE-1, 1008122020 TFIE-2, 1008132010 TKIE-1

AK5850HS

AK5850HS EX HEADSET

- Rugged headset for Ex application
- Designed for Turbine Ex explosion-proof intercoms



Size (WxHxD): 210 x 150 x 70 mm Weight: 400 g

Accessories: TA-22B / TAX-2B Ex-approved Cable and Plugbox

1023533312 / 1023533511

EMMAI-2H / EMMAX-1H MIC

- EMMAI-2H for Turbine Industrial intercoms
- EMMAX-1H for Turbine Ex intercoms



Size (WxHxD): 44 x 68 x 21.5 mm Weight: 0.22 kg

Additional Information: IP-66



1008098300

3 GANG FLUSH MOUNT BACKBOX

- Flush Mount Backbox for IP Vandal Resistant Substation, 3 Gang Back Box

Size (WxHxD): 98 x 145 x 66mm Wt: 0.8kg

Related items: 1008051000 IP Vandal Resistant Substation - 3 Gang Back Box



1008098700

FLUSH MOUNT BACKBOX

- Flush mount backbox for IP Flush Master Stations inclusive IP OR Master Station

Size (WxHxD): 116 x 270 x 40mm Wt: 0.5kg

Related items: 1008015000 IP OR Master, 1008031000 IP Flush Master, display, 1008010100 IP DAK-48 Unit

**Backboxes,
Microphones, and
Handsets facilitate
the deployment of
our SIP stations.**



1008098600

ON WALL BACKBOX

- On wall mount backbox for IP Flush Master Stations

Size (WxHxD): 125 x 280 x 34mm Wt: 0.5kg

Related items: 1008031000 IP FLUSH Master, Display, 1008010100 IP DAK-48 Unit



1401199101

FLUSH MOUNT BACKBOX

- On-wall flush mount box for IP Vandal Resistant Video Station

Size (WxHxD): 125 x 280 x 34mm Wt: 0.5kg

Related items: 1401110100 IP Vandal Resistant Video Station, 1401110200 IP Vandal Resistant Video Station

1008140230 / 1008150030

TA-23 / TAX-3 HANDSET

- TA-23 for Turbine Industrial intercoms
- TAX-3 for Turbine Ex intercoms



Size (WxHxD): 200 x 70 x 50 mm Weight: 310 g

1023533011

EMMAR-1H HANDHELD MIC FOR ECPIR-3P

- Push-To-Talk button
- 3-meter curly cord
- Equipped with locking DIN plug



Size (WxHxD): 71 x 99 x 39 mm Weight: 0.8 kg

Additional Information: IP-66

1008140030

TA-3 TURBINE COMPACT FLUSH BACKBOX

- Flush mount backbox for Turbine Mini Stations



Size (WxHxD): 96 x 96 x 64mm Wt: 0.4kg

Related items: Turbine Mini Stations TMIS-1 & TMIS-2

1023533311

EMMAI-1H INDUSTRIAL MIC

- Handheld microphone for Industrial application



Size (WxHxD): 71 x 99 x 39 mm Weight: 0.8 kg

Additional Information: IP-66

1008140225 / 1008150025

TA-22B / TAX-2B CABLE AND PLUGBOX FOR AK5850HS HEADSET

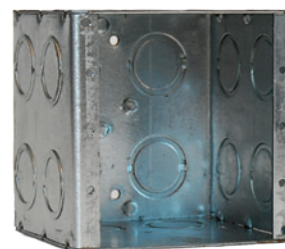
- 10m cable
- TA-22B for Turbine Industrial intercoms
- TAX-2B for Turbine Ex intercoms



1008140020

TA-2 TURBINE COMPACT FLUSH BACKBOX

- Flush mount backbox for Turbine Compact Stations



Size (WxHxD): 96 x 96 x 90 Wt: 0.5kg



1008098800

FLUSH MOUNT BACKBOX

- Backbox for handset module for IP Flush Master

Size (WxHxD): 58 x 270 x 40mm Wt: 0.3kg

Related items: 1008097100 Handset



1008098100

FLUSH MOUNT BACKBOX

- Flush Mount Backbox for Vandal Resistant Substation, IP and Traditional

Size (WxHxD): 80 x 168 x 50mm Wt: 0.8kg

Related items: 1008041100 IP Vandal Resistant Substation, 1007056100 Vandal Resistant Substation

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