

1008115030

## TCIV-3

IP and SIP Video Intercom



 **UL Certified Intercom**

 **Turbine**

 **Video Intercom**

 **Door Intercom**

 **HD Voice**

 **Active Noise Cancelling**

**Video**

 **H.264**

The Turbine Compact Intercom Video station, TCIV, provides a dynamic HD-quality solution that is flexible, expandable and easily integrated.

It removes the obstacles of noise and bandwidth constraints with active noise cancellation, echo reduction and processing power at the device.

By deploying this virtual guard, security teams can hear, see, and speak in real time. Vingt-Stentofon designed this critical communication solution to withstand extreme fluctuations in temperature, aggressive vandals, dirty and dusty environments, and water.

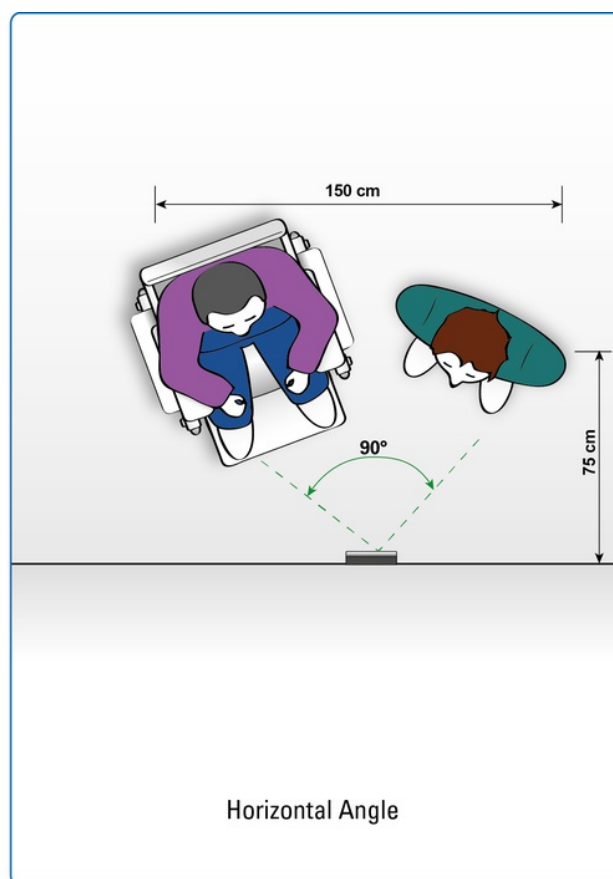
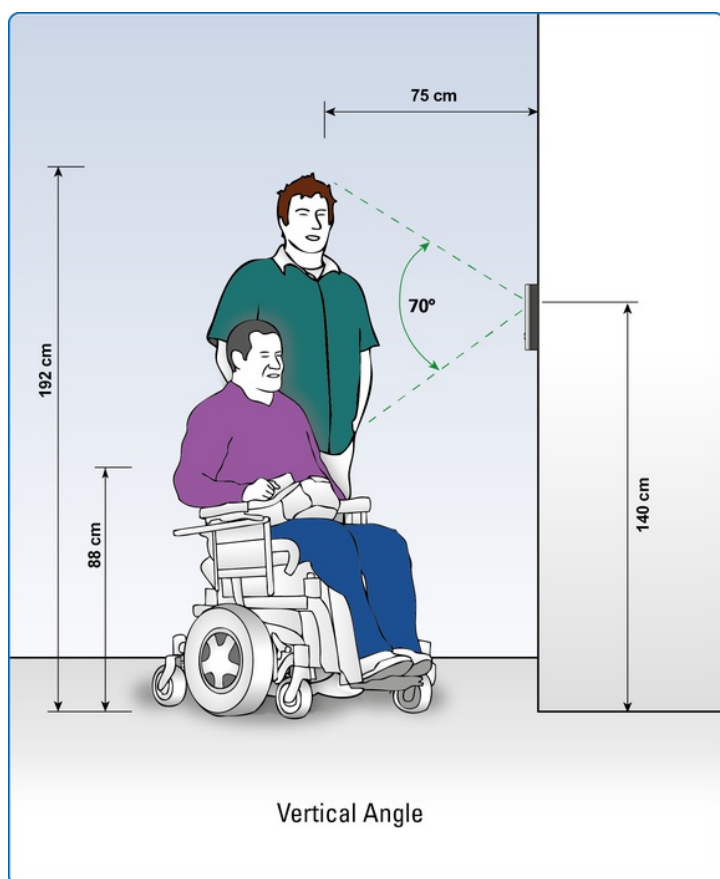
As a native IP platform, it is easily integrated into a company's networked solutions.

## DESCRIPTION

- HD Video at up to 25 FPS (960p)
- 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-66
- Built to last with robust die-cast aluminum frame
- Supports wide set of IP and networking standards
- Black thermoplastic front plate with single button
- Ideal for Building Security and Public Environments

All IP stations in the Turbine series utilize the latest technology to create unparalleled audio quality. Some of the many features include: HD voice quality, Open Duplex, Active Noise Cancellation, MEMS microphone, a 10W Class D amplifier and our unique speaker grille design. These features, in conjunction the company's 65+ years of experience with acoustic technology, are just a few of the many factors that contribute to our superior audio quality. The Turbine IP Video Intercom range expands this feature set with wide FoV HD Video, Digital PTZ and support for H.264 or MJPEG.

### Field of View



See also: [additional documentation on wiki.zenitel.com](http://wiki.zenitel.com)

## SPECIFICATIONS

### AUDIO

SPL peak power at 1m in open duplex	90 dB
SPL peak power at 1m in half duplex	100 dB
SPL peak power at 1m in program distribution and announcement	100 dB
Noise cancelling - suppression of musical noise	Yes
Noise cancelling - suppression of static noise	Yes
Noise cancelling - suppression of rapidly changing noise	Yes
Codecs	G.711, G.722, G.729
Frequency range, G.722 Codec	200 Hz – 7000 Hz

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[www.zenitel.com](http://www.zenitel.com)

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<b>AUDIO</b>	
Audio technology	Modes: Full open duplex, switched open duplex
	Adaptive jitter filter
	Custom Ringing Tone
	Audio Mixing – Conversation and Group Call
	Sound Level Detection / scream alarm (only in AlphaCom)
	Automatic gain control (microphone)
Internal speaker amplifier	10 W class D
Microphone technology	Digital MEMS, omnidirectional microphone

<b>VIDEO</b>	
Image Sensor	1/2.5" RGB CMOS
Lens	3.4mm, F3.5, fixed iris, fixed focus 40cm to infinity
Light Sensitivity	Down to 5 lux
Resolution	320x240 / 640x480 / 1280x720 / 1280x960 pixels
Frame Rate	Up to 25 FPS in 960p
Supported Codecs	MJPEG, H.264*
Digital PTZ	Yes
Digital Zoom	Up to 2.5x
Field of View	horizontal=90 degrees, vertical=60 degrees **
Snapshot Function	No
* H.264 not supported in AlphaCom mode	
** FoV depends on video mode (may be subject to change)	

<b>HARDWARE</b>	
Ethernet connector	1 x RJ-45
All other connectors	Tool less, spring loaded, vibration proof terminals
General inputs and outputs	6 (configurable)
Outputs	12mA as LED drivers
Change-over relay (NO+NC+COM)	Max: 250VAC/220VDC, 2A, 60W
Power options	PoE and or external power supply
PoE (Power over Ethernet)	IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
External power supply	24 VDC (16 – 48 V)
Power consumption	Idle 3.5W, max 12W (depending on volume)
Audio Line out / Induction loop signal	600 Ohm
Button backlight	LED
Call indication	Icons/colors for hearing impaired.

<b>CONSTRUCTION</b>	
Dimensions (HxWxD)	180 x 120 x 70 mm / 7.1" x 4.7" x 2.8"
Dimensions after flush mount	180 x 120 x 20 mm / 7.1" x 4.7" x 0.8"
Dimensions with on wall box	180 x 120 x 82 mm / 7.1" x 4.7" x 3.3"
Weight	1 kg / 2.2 lbs.
Faceplate material	3 mm / 0.12" PMMA, color printed on backside
Base / frame material	3 mm / 0.12" Aluminum alloy - A413.0, AlSi12Fe, painted
Electronics cover material	Polycarbonate (translucent)
Gasket material	Silicone rubber
Fastening bracket material	SECC Steel
Button material	3 mm / 0.12" Polycarbonate (transparent)
Button travel length	1.25 mm
Button activation force	350 gf
Button push-cycles before failure	300 000
Loudspeaker poke protection, large diameter object	3D cast aluminum speaker grille
Loudspeaker poke protection, small diameter objects	Stainless steel mesh, acoustically transparent

**NETWORKING & PROTOCOLS**

Protocols	IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMP, Vingtor-Stentofon CCoIP®, NTP
LAN protocols	Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)
Management and operation	HTTP/HTTPS (Web configuration) DHCP and static IP + Vingtor-Stentofon Pulse™ Remote automatic software upgrade Centralized monitoring
Advanced supervision functions	E.g network test, tone test, status reports (only in AlphaCom)
SIP support	RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme
DTMF support	RFC 2833, 2976 (SIP info)

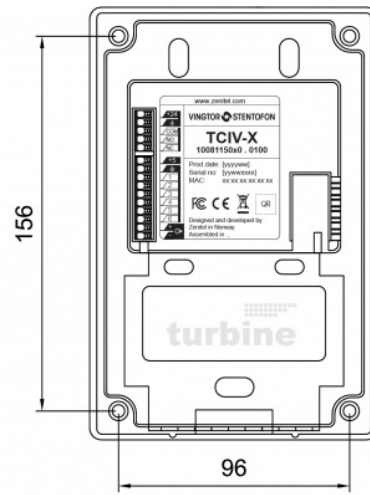
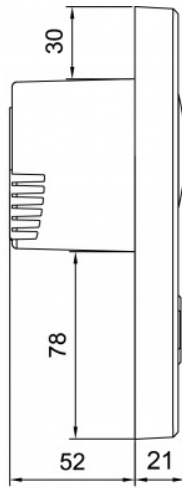
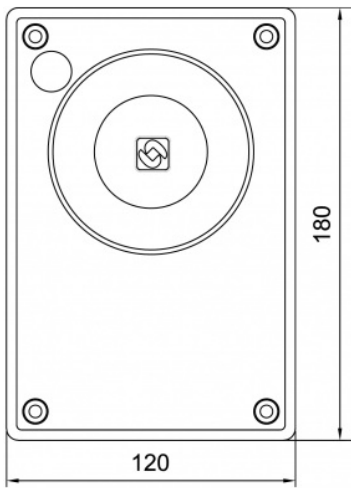
**ENVIRONMENT & COMPLIANCES**

IP rating	IP-66, tested according to EN 60529 (applies when mounted in TA-1 back box)
Operating temperature range	-30° to 70° C / -22° to 158 ° F
Storage temperature range	-40° to 70° C / -40° to 158 ° F
Relative humidity	< 95% not condensing
Corrosion	Salty mist, tested according to EN60945
Vibration	Tested according to EN60945
UV-resistant	Yes
EMC	CE and FCC Part 15 UN Regulation 10, revision 4 + Corr.1 + Amend.1
Compliances	IEC/EN 61000-6 Light and heavy industry IEC/EN 50486 Equipment for use in audio video door-entry systems
Certificates	UL 60950-1, cUL 60950-1, CB to IEC 60950-1

**OTHER SPECIFICATIONS**

IP address information	Speaks IP address after system boot
Button lifetime	> 1 000 000 cycles
Country of manufacture	Poland

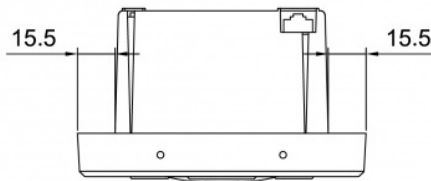
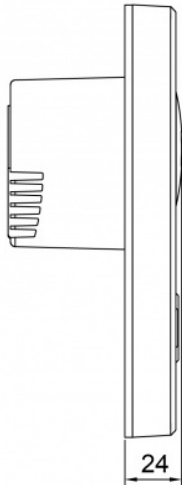
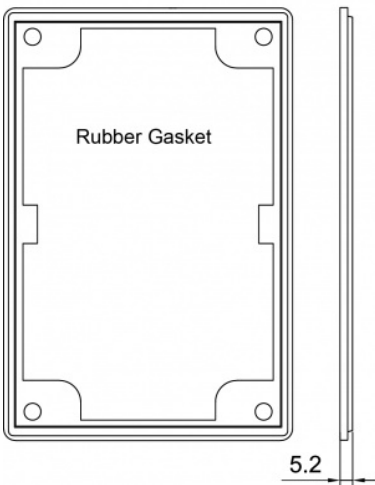
**TECHNICAL DIMENSIONS**



TCIV-2  
TCIV-3



TCIV-6



All dimensions in mm

## ACCESSORIES



**TA-1**

Item number: 1008140010



**TA-2**

Item number: 1008140020



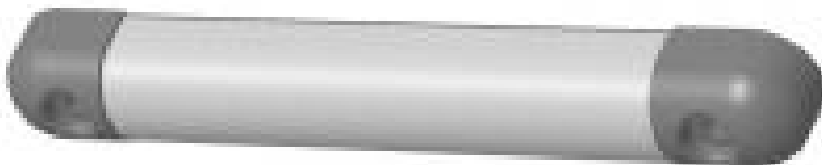
**TA-5**

Item number: 1008140050



**TA-18**

Item number: 1008140180



**TA-14**

Item number: 1008140140

## USED WITH



**1408001635**

**IP DESKTOP VIDEO STATION**

with Touchscreen Display and Handset



**1490001010**

**ITSV-1**

IP Touch Station with Video