



1008115030

## TCIV-3

IP and SIP Video Intercom This product has been replaced by 1008315030 TCIV-3+

- ✓ Video at up to 25 FPS (480P)
- ✓ 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
- ✓ Built to last with robust die-cast aluminum frame - rating IK08
- ✓ Supports wide set of IP and networking standards
- ✓ Black thermoplastic front plate with single button
- ✓ Ideal for Building Security and Public Environments

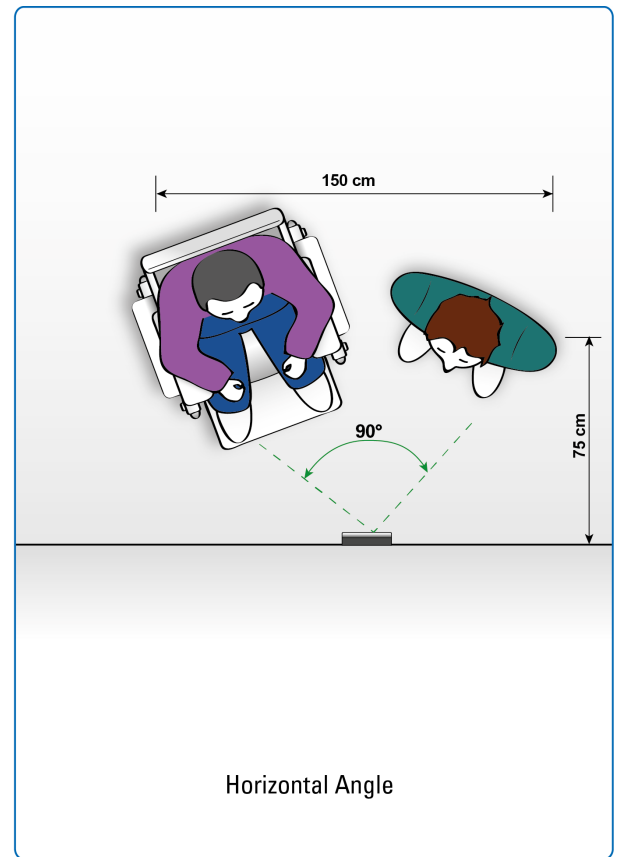
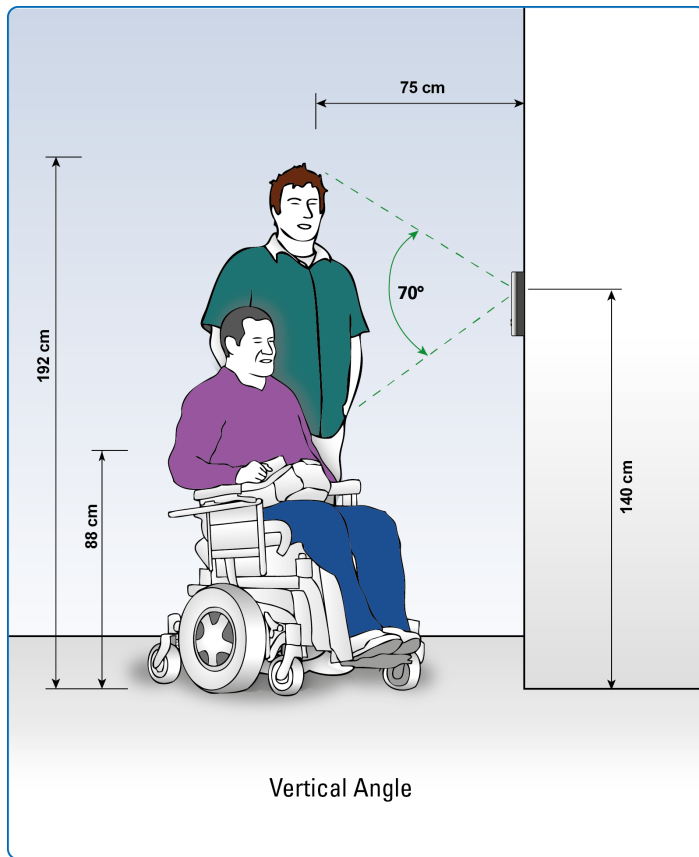
## Description

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. Vingtor-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.

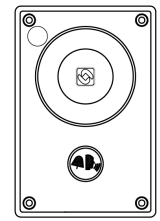
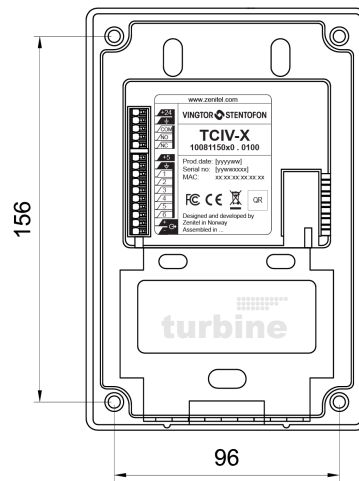
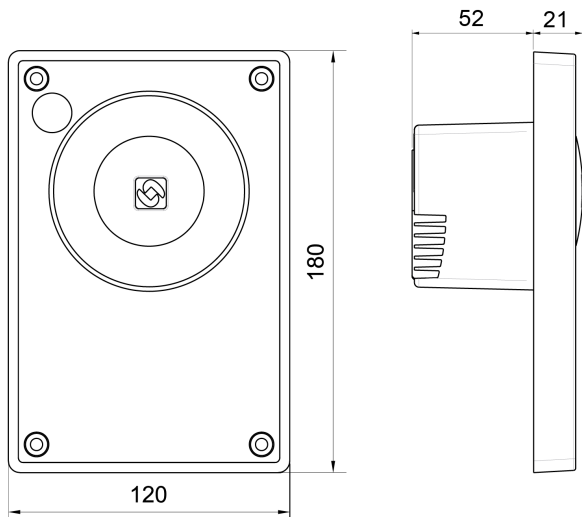
All IP stations in the Turbine series utilize the latest technology to create unparalleled audio quality. Some of the many features include: HD voice quality, Open Duplex, Active Noise Cancellation, MEMS microphone, a 10W Class D amplifier and our unique speaker grille design. These features, in conjunction 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 Video, Digital PTZ and support for H.264 or MJPEG.

Field of View

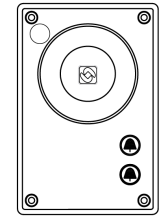


See also: [additional documentation on wiki.zenitel.com](https://wiki.zenitel.com)

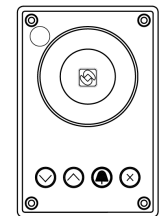
## Technical Dimensions



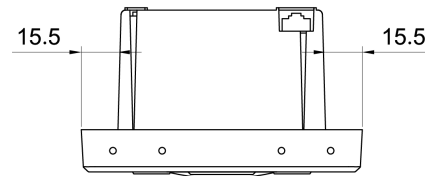
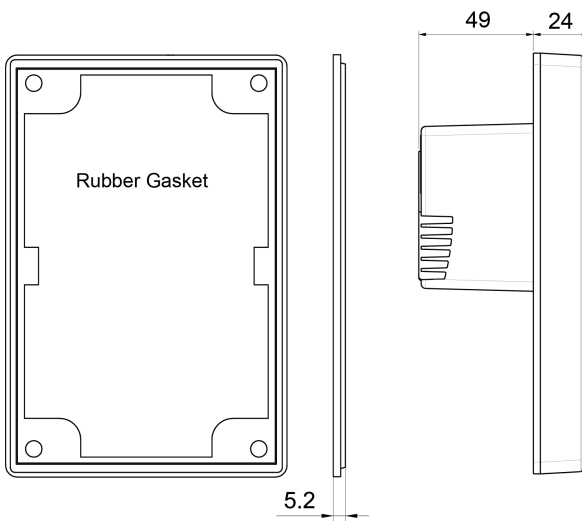
TCIV-2  
TCIV-3



TCIV-5



TCIV-6



All dimensions in mm

# 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                                          |
| Audio technology                                              | Modes: Full open duplex, switched open duplex             |
|                                                               | Adaptive jitter buffer                                    |
|                                                               | 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                  |
| Automatic Volume Control (AVC)                                | Undistorted and clear audio                               |
| Acoustic Echo Cancellation (AEC)                              | Prevents audio feedback even at high volumes (95dB)       |
| 10W Speaker                                                   | Matches 10W amp for distortion-free broadcast level sound |

## VIDEO

|                   |                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor      | 1/2.5" RGB CMOS                                                                                                                                   |
| Lens              | 3.4mm, F3.5, fixed iris, fixed focus<br>40cm to infinity                                                                                          |
| Light Sensitivity | Down to 5 lux                                                                                                                                     |
| Resolution        | 320x240 / 640x480 pixels                                                                                                                          |
| Frame Rate        | Up to 25 FPS in 480P *                                                                                                                            |
| Supported Codecs  | MJPEG, H.264 **                                                                                                                                   |
| Digital PTZ       | Yes                                                                                                                                               |
| Digital Zoom      | Up to 2.5x                                                                                                                                        |
| Field of View     | horizontal=90 degrees, vertical=60<br>degrees ***                                                                                                 |
| Snapshot Function | No                                                                                                                                                |
|                   | * * 25 FPS is only supported in<br>H.264 mode, while MJPEG is<br>limited to 10 FPS. FPS options do<br>not depend on resolution, only on<br>codec. |
|                   | ** AlphaCom mode supports only<br>RTSP H.264 mode, while other<br>modes support SIP H.264.                                                        |
|                   | *** FoV depends on video mode<br>(may be subject to change)                                                                                       |

## HARDWARE

|                                           |                                                        |
|-------------------------------------------|--------------------------------------------------------|
| Ethernet connector                        | 1 x RJ-45                                              |
| All other connectors                      | Tool less, spring loaded, vibration<br>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<br>(0.44W to 12.95 W)   |
| External power supply                     | 24 VDC (16 – 48 V)                                     |
| Power consumption                         | Idle 3.5W, max 12W (depending on<br>volume)            |
| Audio Line out / Induction loop<br>signal | 600 Ohm                                                |
| Button backlight                          | LED                                                    |
| Call indication                           | Icons/colors for hearing impaired.                     |

## CONSTRUCTION

|                                                     |                                                         |
|-----------------------------------------------------|---------------------------------------------------------|
| Dimensions (HxWxD)                                  | 180 x 120 x 73 mm / 7.1" x 4.7" x 2.9"                  |
| Dimensions after flush mount                        | 180 x 120 x 24 mm / 7.1" x 4.7" x 0.9"                  |
| Dimensions with on wall box                         | 180 x 120 x 86 mm / 7.1" x 4.7" x 3.4"                  |
| 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, AISi12Fe, 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          |
| Anechoic Design                                     | Open flow anechoic design eliminates "standing waves"   |

## NETWORKING & PROTOCOLS

|                                |                                                                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                      | IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, RTSP, RTCP, SRTP, DHCP, SNMP, Vingtor-Stentofon CCoIP®, NTP, ONVIF, WS-Discovery |
| 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. 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)                                                                                                               |
| Integration and API            | AlphaCom, Scripting (plugins)                                                                                                           |

ENVIRONMENTAL

|                             |                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| IP rating                   | IP-65, tested according to EN 60529<br>(applies when mounted in TA-1<br>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<br>EN60945                                                                        |
| Vibration                   | Tested according to EN60945                                                                                       |
| UV-resistant                | Yes                                                                                                               |
| EMC                         | CE and FCC Part 15 UN Regulation<br>10, revision 4 + Corr.1 + Amend.1                                             |
| Compliances                 | IEC/EN 61000-6 Light and heavy<br>industry IEC/EN 50486 Equipment<br>for use in audio video door-entry<br>systems |

CERTIFICATIONS

|                   |                                               |
|-------------------|-----------------------------------------------|
| Certificates      | UL 60950-1, cUL 60950-1, CB to<br>IEC 60950-1 |
| ONVIF Conformance | Profile S for streaming video                 |

OTHER SPECIFICATIONS

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

Accessories



TA-1  
Turbine Compact Onwall Back Box  
Item Number: 1008140010



TA-2  
US 2-Gang 3½" Deep Backbox  
Item Number: 1008140020



TA-5  
Bracket for US 2 GANG Double Depth  
Back Box  
Item Number: 1008140050



TA-18  
Turbine Compact Flush-Mount Back Box  
Item Number: 1008140180



#### TA-14

Microphone windshield for TCIS / TCIV

Item Number: 1008140140

## Used With



#### IP Desktop Video Station

with Touchscreen Display and Handset

Item Number: 1408001635



#### ITSV-1

IP Touch Station with Video This product has been replaced by 1490002010 ITSV-2

Item Number: 1490001010