



- **1.**This webinar is being recorded and will be available for replay and in pdf format. Please visit <a href="https://www.hanwhasecurity.com/trainings/webinars/">https://www.hanwhasecurity.com/trainings/webinars/</a> to view past webinars & sign up for future ones.
- 2. All participants have been put into listen only mode.
- 3. We will take Q&A time permitting and if time runs out to answer all of the questions, we will reply to you individually afterwards. Please use the Chat or Q&A section.



### **Manufacturing and Compliance**

- Hanwha Techwin is a Global Fortune 500 company based in South Korea, with over 30 years of manufacturing experience in video surveillance. Our Supply Chain of Trust is critical to our cybersecurity.
- All IP cameras, analog cameras, NVRs, DVRs and encoders sold and distributed in North America are manufactured in Hanwha's facilities in South Korea and Vietnam.
- Hanwha Techwin manufactures a full suite of products compliant with NDAA and TAA provisions making them eligible for GSA Schedule Contracts and other government opportunities.





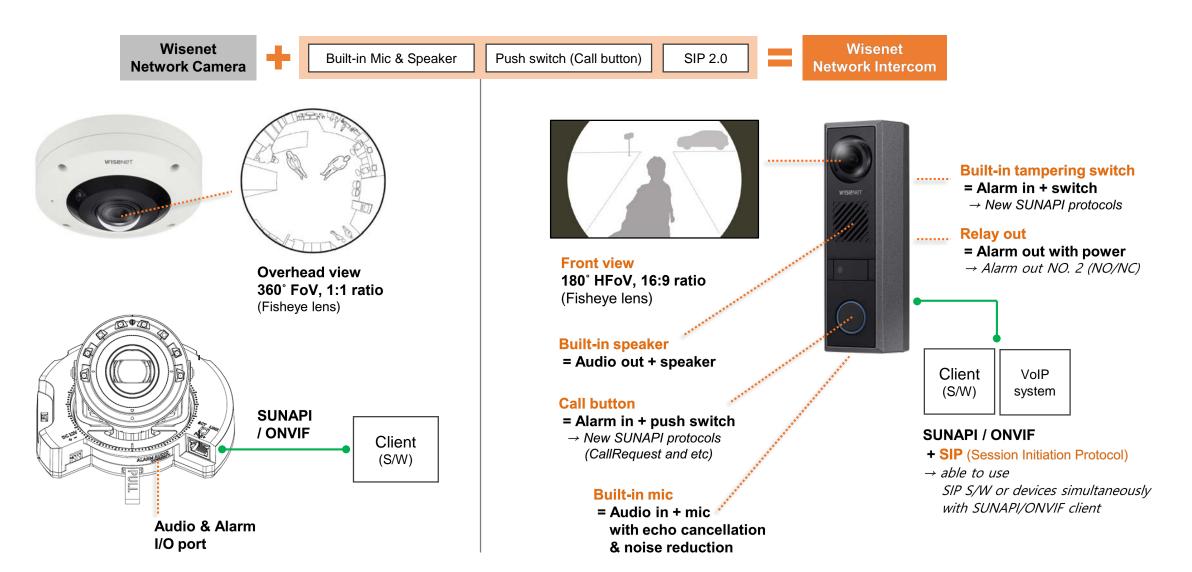








### **Concept: Compare to a camera**



### Where to use

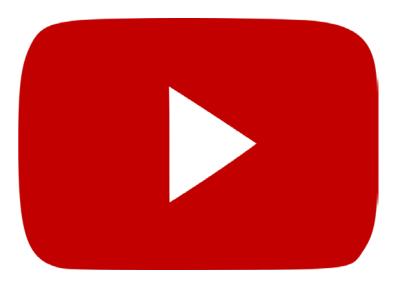








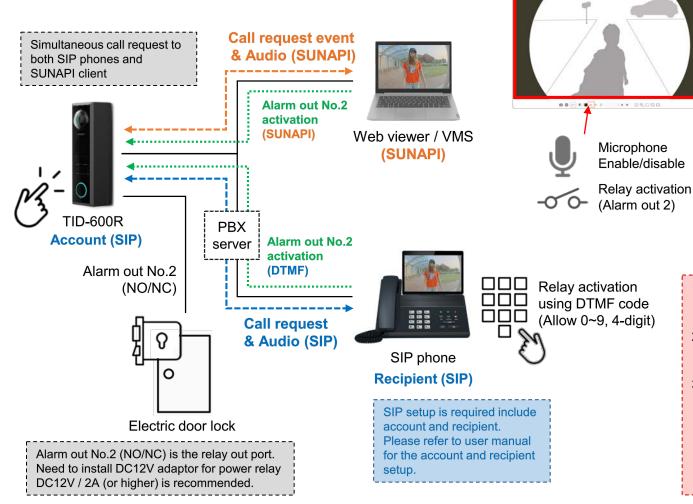
### **Demonstration Video**

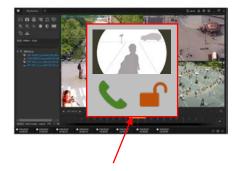




### **Concept: How it works**

### **Call making flow**





Instant pop-up
: Call receive, Relay activation
(WAVE/SSM will support the instant pop-up)

- 1) In case you receive a call from SIP phones, call request event (SUNAPI) will be stopped.
- 2) In case you receive a call from SSM (in Dec update), call request to SIP phones will be stopped.
- 3) As webviewer is not able to feedback to intercom s/w to terminate call request, when you receive a call from the web viewer, the call request remains on the SIP phones for the calling timeout period.
- → If another person also receive a call using SIP phone while you're talking through the webviewer, the visitor will be able talk to two receivers.

### **Key features**

#### **Integration with SIP devices & Touchless call**

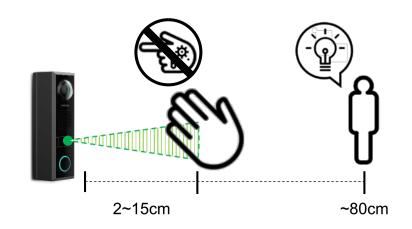
#### • SIP 2.0 protocol support

- Integration with VoIP systems and IP PBX
- . SIP (Session Initiation Protocol) is a signaling protocol used for voice, video and messaging applications.
- RFC 3261 (SIP base standard), RFC 3515 (SIP refer), RFC 2976 (SIP info),
   SIP using TLS, RFC 5630 (SIPS URI scheme), RFC 2833 (DTMF)

#### Touchless call

- Call making without physical contact to the call button
- → Prevention of transmission of diseases through the hands
- : Place a hand within 2~15cm from the front sensor and wait 1 second
- Welcome LED lighting
  - : Status LED on when an object detected within 80cm

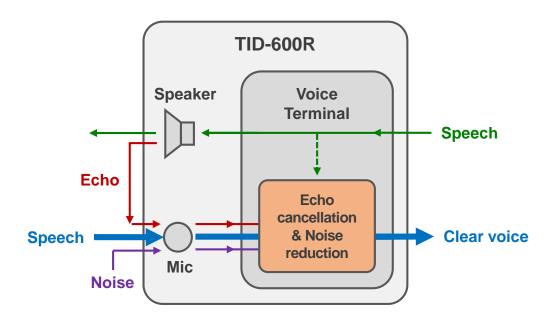




### **Key features**

### Full duplex two-way talk with clear sound

- Echo cancellation and noise reduction
- Clear sound by active echo cancellation and noise reduction



#### Loud Speaker

 Max. 85dB at a distance of 0.5m which is a loud enough speaker power for average commercial and residential environments

110dB	Car horn, Chain saw	
100dB	Handheld drill, Subway platform	
90dB	Welder, Inside a noisy factory	☐ TID-600R
80dB	Heavy Traffic / Noisy restaurant	⊒ 11D-000K
50~60dB	Quiet Office, Normal conversation	

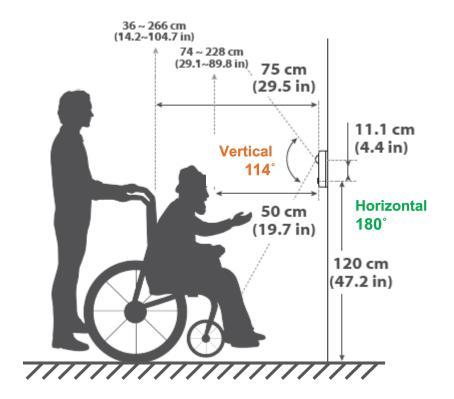
#### < Source >

https://pulsarinstruments.com/en/post/decibel-chart-noise-level https://www.healthlinkbc.ca/health-topics/tf4173

### **Key features**

### Optimized video quality and wide FoV for entrance

- Wide Field of View
- Horizontal 180°, Vertical 114° FoV
- IR viewable length: 5m



#### Video Quality

Strong 150dB WDR video against backlight
 Clear night image with IR LED and noise reduction



Day : Color, WDR On



Night : B/W, IR On

### **Key features**

#### Control electric locks & Built-in tampering switch

- 12VDC relay out
- Support relay out port for electric locks using 12VDC.



#### Electric door strike

Input power of typical door strikes sold in the market : 12VDC, 200 ~ 320mA



#### Magnet electric lock

Input power of typical magnet locks sold in the market : 12VDC, 100 ~ 520mA

#### < Note >

Relay out doesn't work when TID-600R is powered by PoE switch only. 12VDC adapter is required to use power relay output.

Max. 550mA out is available with 2A 12VDC adapter. (include power consumption of TID-600R)

#### Tampering switch

 Built-in tampering switch can be used to detect if improperly opened



#### Color LED status indicator



Color	Туре	Status
Blue	Steady / Sensor detected (Welcome)	Idle
	Blink	Call button pushed & call waiting
	Slow blink	Calling
Green	Steady	Relay activation
Red	Steady	Booting up
	Blink	Comm. error
White	Steady	F/W update

TID-600R

### **Key features**

### **W'ISE**NET

### License-free video and audio analytics

#### Supported analytics

Video analytics	Appear, Disappear, Loitering, Virtual line, Enter/Exit, Directional Detection
Detection	Motion detection, Audio detection, Shock detection

#### **TID-600R**

### **Overview**

#### **Network Intercom**

- 1/2.8" 2MP sensor
- 1.6mm fixed lens : HFoV 180°, VFoV 114°
- IR viewable length 5m
- Built-in mic and speaker : 85dB speaker out at 0.5m
- Echo cancellation and noise reduction
- SIP 2.0 support : Integration with VoIP systems
- Touchless call, Built-in tamper switch
- PoE/12VDC
  - . Max. 550mA relay out with 2A 12VDC adapter
- IP65, IK08, NEMA4X

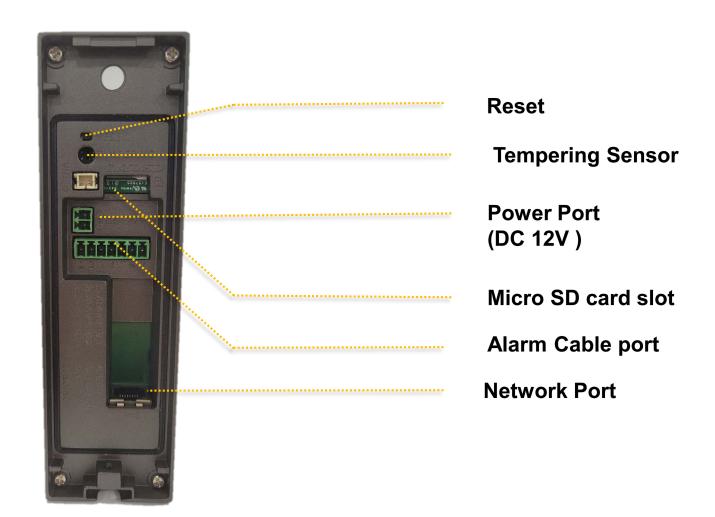


# Specifications

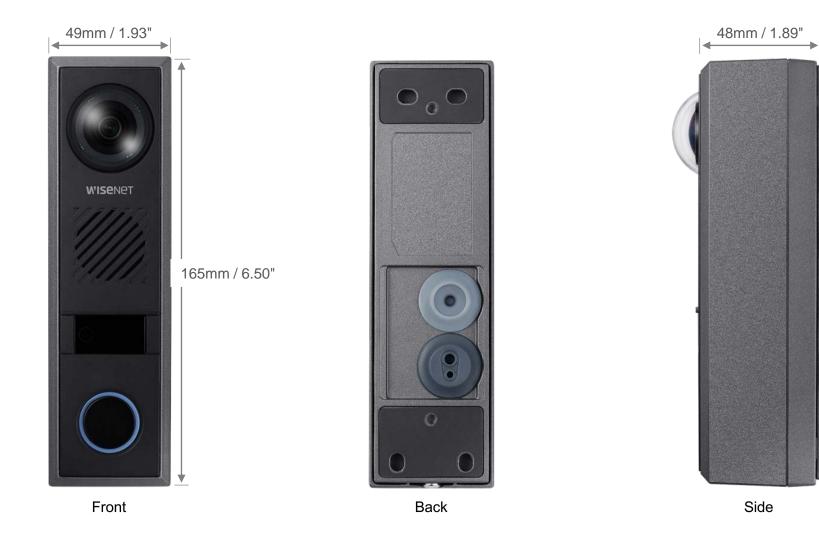
	TID-600R	
Imaging Device	1/2.8" 2MP CMOS	
Resolution	1920x1080 to 320x240	
Max. Framerate	H.265/H.264: Max. 60fps, MJPEG: Max. 30fps,	
Focal Length / FoV	1.6mm fixed focal F1.6 / H: 180°, V: 114°	
IR Viewable Length	5m	
Backlight Compensation	BLC, HLC, WDR(150dB), SSDR	
Audio streaming	Two-way(Full duplex)/one-way selectable, Echo cancellation and noise reduction	
Analytics	Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Shock detection, Sound classification	
Alarm I/O	Input 2ea / Output 1ea, Tampering switch Relay out 1ea (Max. 550mA with 2A 12VDC adapter)	
SIP(Session Initiation Protocol)	SIP 2.0(RFC 3261 and companion RFCs)	
Operating Temp./Humidity	-30°C~+55°C / Less than 95% RH	
Certification	IP65, IK08, NEMA4X	
Input Voltage	PoE, 12VDC	
Color / Material	Dark gray / Aluminum	
Dimension / Weight	49 x 165 x 48mm (1.93x6.50x1.89") / 490g	



### **Appearance**

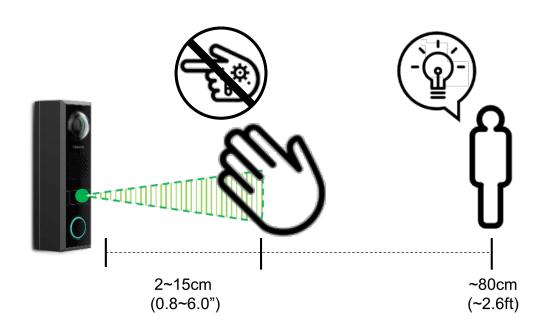


### **Appearance**



### **Touchless Call**

- Contact free interface
- Call making without physical contact to the call button
  - → Prevention of transmission of diseases through the hands
- Place a hand within 2~15cm from the front sensor and wait 1 second. This feature can be enabled/disable on Web viewer of TID-600R.
- Welcome LED Lighting
  - LED status when an person detected within 80cm



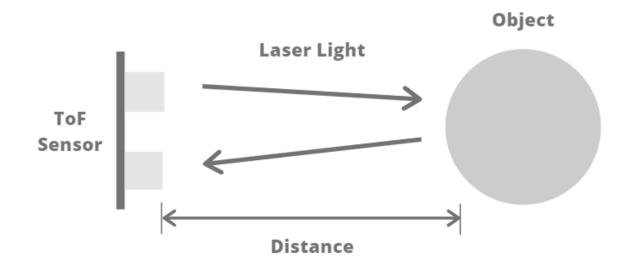




### ToF sensor

### Time of Flight

- The light generated by the small laser reflects on the object and emits infrared light returning to the sensor.
- Based on the difference in time between the emission of light and the return to the sensor, the sensor measures the distance between the object and the sensor.



### **Control Electric Locks**

### 12VDC Relay out

• Support relay out port for electric locks using 12VDC.

#### **Electric Door Strike**

- Input power of typical door strikes sold in the market
- : 12VDC, 200~320mA

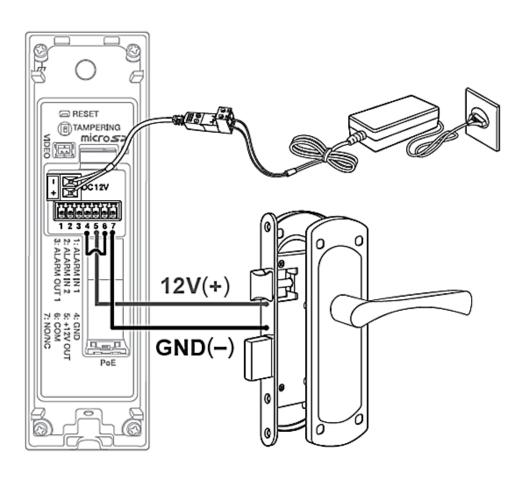


### Electromagnetic Lock

- Input power of typical magnet locks sold in the market
- : 12VDC, 100~520mA

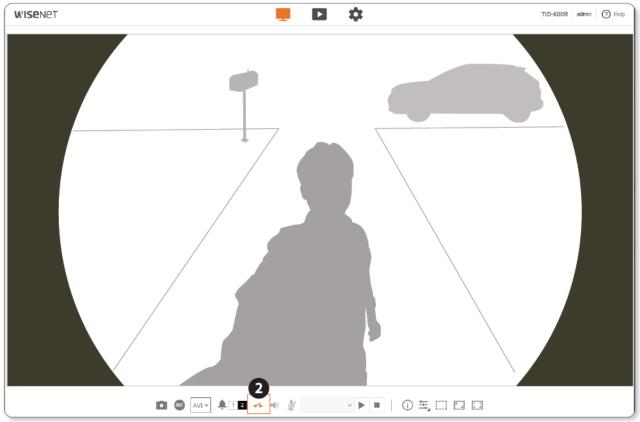


### **Connection Diagram**



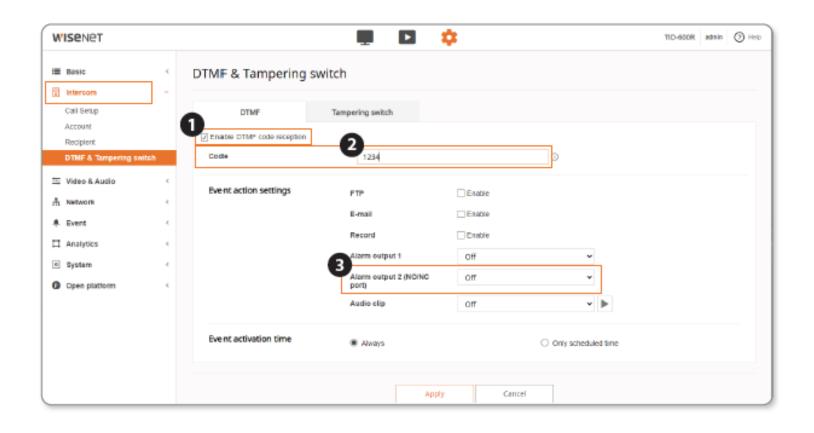
### **Opening Door on Webviewer**

- Relay button on Live monitoring page
  - door remains open for the specified duration, and then it closes.
  - Setup >> Alarm output 2



### **DTMF** code

### Dual Tone Multi Frequencty



### **Tampering & LED indicator**

### Tampering Switch

- Built-in tampering switch can be used to detect if improperly opened

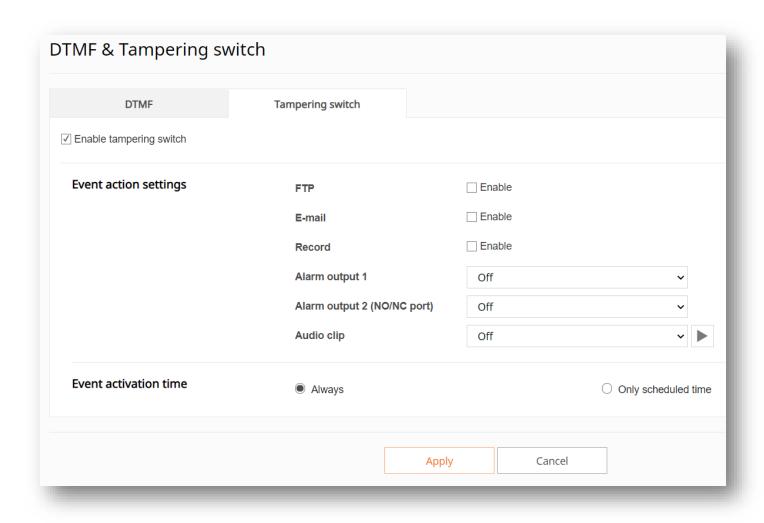


#### Color LED Status Indicator

Color	Туре	Status
Blue	Steady / Sensor detected (Welcome)	ldle
	Blink	Call button pushed & call waiting
	Slow blink	Calling
Green	Steady	Relay activation
Red	Steady	Booting up
	Blink	Comm. error
White	Steady	F/W update



### **Tampering S/W**

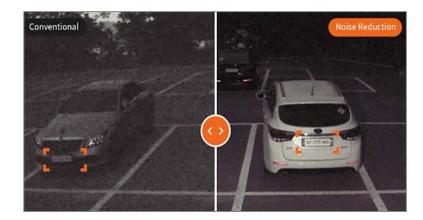


### **Video quality**



- 4-frame WDR (150dB)
  - Identyfy visitor through optimal WDR images even in backlight situations.

- Noise reduction & WiselR
  - Clear night image with noise reduction algorithm and IR LED application



## **Sample Images**

@ 06:00



TID-600R (Color, WDR)

## **Sample Images**

@ 09:00



TID-600R (Color, WDR)

## **Sample Images**

@ 12:00



TID-600R (Color, WDR)

## **Sample Images**

@ 15:00



TID-600R (Color, WDR)

## **Sample Images**

@ 17:00



TID-600R (Color, WDR)

## **Sample Images**

@ 20:00



TID-600R (Color, WDR)

### **Sample Images**

@ 20:30



TID-600R (B/W, IR On)

### **Sample Images**

@ 23:00



TID-600R (B/W, IR On)

### **Sample Images**

@ 04:00



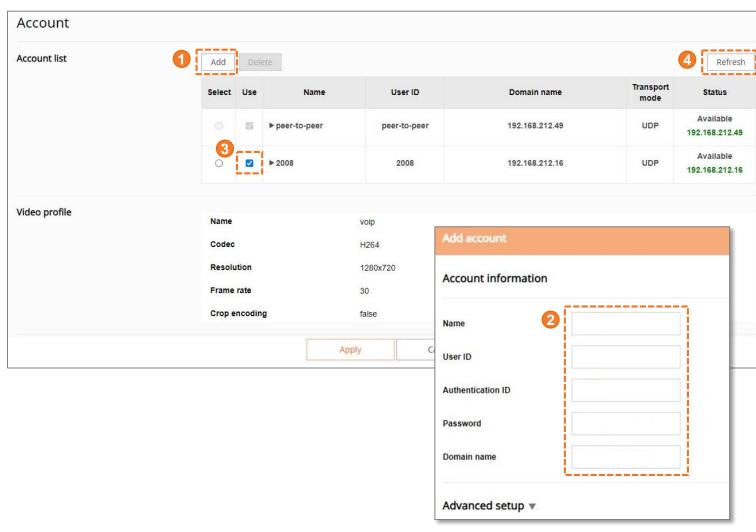
TID-600R (B/W, IR On)





# **Account Setup (SIP)**

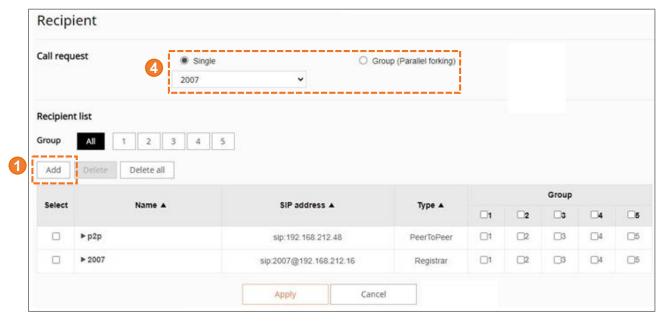
#### Setup > Intercom > Account

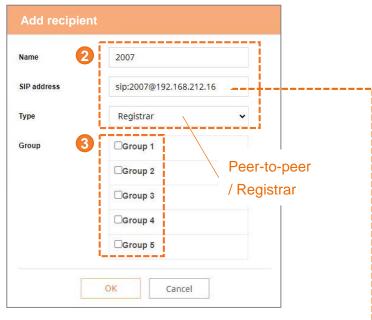


- 1) Click 'Add'.
- 2) Input the account information.
- . User ID is extension number.
- . Domain name is SIP server IP address.
- 3) Check 'Use' for the account to use.
- 4) After adding an account and 'Apply', click 'Refresh' to check the status.
- Up to 5 accounts are available include the default peer-to-peer account.
- Default account can not be removed or disabled.
- Only one account can be used. (can be checked)

# Recipient Setup (SIP)

#### Setup > Intercom > Recipient > Recipient list





- 1) Click 'Add'.
- 2) Input information of recipient
- 3) In case using group call(parallel forking), check the box for the group number you want to assign.
- 4) Choose recipient to call. Group number will be displayed if group call is selected.
- Up to 30 recipients and 5 groups are available

#### Peer-to-peer

SIP address format

sip:(IP address)

- sip: basic prefix such as http://
- IP address : IP address of VoIP phone example) sip:192.168.212.48

**Registrar** (when PBX server is used)

SIP address format

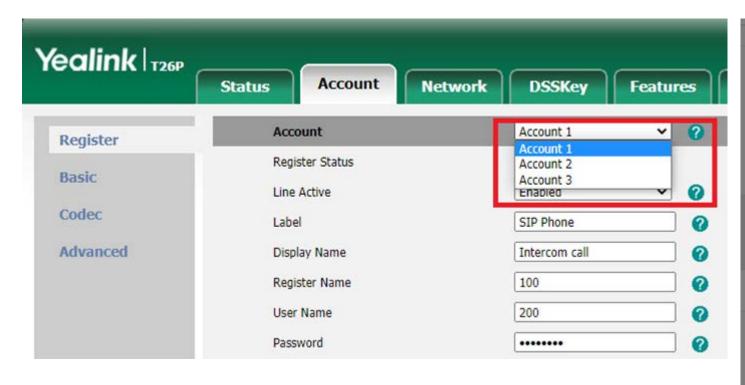
sip:(User ID)@(IP address)

- sip: basic prefix such as http://
- User ID: User ID of VoIP phone
- IP address
- : IP address of server that VoIP phone is connected *example*) sip:2007@192.168.212.48

**TID-600R** 

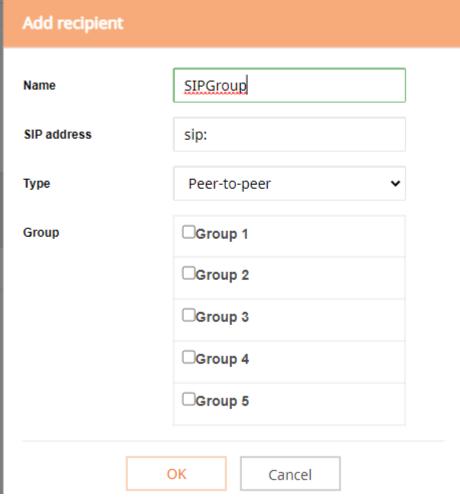
### **WISE**NET

# Peer to Peer Connection. Direct connection from SIP phones to the intercom



Program phone to connect to the intercom directly, using one of the account available in the phone setting.

Set the Type to Peer to Peer mode and set the group (If used)



# Compatibility

# **Compatible VMS & NVR**

	VMS			NVR	
	SSM	WAVE	Milestone / Genetec	Legacy NVR	New NVR
Monitoring	0	0	0	0	0
Call request event receive	0	Basic Supported Now.  Advanced popup Q1  2022	In plan	Х	0
Two-way talk & Relay control	0	Basic door open supported now.  Advanced Q1 2022.	Δ	Δ	Δ

riangle : Need to control manually. Dedicated function is not supported

## **Tested SIP devices**

	Brand / Model name		
Phones SIP phones from Cisco (CP-8845, CP8865), Grandstream (GXV3370, GXV3380), Yealink (T58A)			
Software	Asterisk PBX software, Genetec Sipelia		
PBX server	Wahsega Diet PBX		

# **Compatible VMS & NVR**

	Status
WAVE	Video layout triggered at the call (Done). Q1 2022 for the full integration with audio support
Genetec	Compatible with Sipelia without the call pause
Milestone	In plan – Targeting for Q2 2022

## **Tested SIP devices**

	Brand / Model name		
Phones	SIP phones from Cisco (CP-8845, CP8865), Grandstream (GXV3370, GXV3380), Yealink (T58A)		
Softphones	MicroSIP, Mizuphone		
PBX server	Cisco CUCM Ver. 14 / 3CX Ver.18 / Grandstream / Freepbx / Wahsega Diet PBX		

# **Accessories**

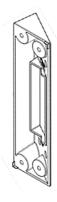
### Skin cover / Tilt mount / Flush mount



#### SBC-165W Skin cover

. Color : White

. Material : Plastic

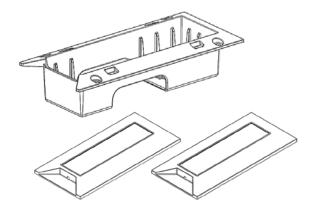


#### SBS-165TM Tilt mount

. Color : Black

. Material : Plastic

. Tilt angle 30°



#### SHS-165F Flush mount

. Color : White, Dark gray

. Material : Aluminum (housing),

Plastic (front cover 2ea. Dark gray, White)

# **Appearance**



TID-600R + SBC-165W (skin cover)

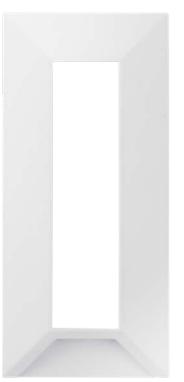


TID-600R + SBS-165TM (Tilt mount)

# **Appearance**











TID-600R + SHS-165F (Flush mount)

(Left) Dark gray cover (Right) White cover

# **Accessories**

#### Skin Cover

Wrapping type for painting

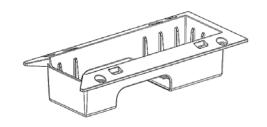


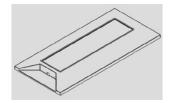
• Tilt mount

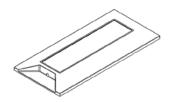


# **Accessories**

### Flush mount









. Color : White, Dark gray

. Material :

- Aluminum (housing)
- Plastic (front cover 2ea,)





TID-600R + SBC-165F

# **Availability**

The TID-600R has been released and is available to order.

Stock in quantity is expected to be available around the end of February.



# Thank You!



Questions?



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