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SPECIFICATIONS

Product Name: Network Signal Tower with Voice Annunciator

Model: NHV 🗆 – 🗆 🗆 🗆 – 🗆 🗆 🗆

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1. General Specifications

	5 tiers	NHV 🗆 - 5 🗆 🗆 🗆	
Model 4 tiers 3 tiers 2 tiers 1 tier 0 tiers		NHV□-4□□□	
		NHV -3	
		NHV□-2□□□	
		NHV□-1□□□	
		NHV 🗆 - 0 🗆 🗆	
	DC Jack	24VDC	
Rated Voltage	PoE *1	48VDC Conforms to IEEE802.3at (PoE+) *2	
	AC Adaptor *3	Input: 100 - 240VAC (50/60Hz) Output: 24VDC	
Operating	DC Jack	21.6 - 26.4VDC	
Voltage	PoE *1	42.5 - 57VDC	
Range	AC Adaptor *3	90 - 264VAC	
	Main Hait *4	Standby: 120mA Maximum: 210mA (24VDC input)	
Rated Current	Main Unit *4	Standby: 115mA Maximum: 175mA (PoE 48VDC input)	
Consumption	LED Unit	40mA (per Unit, 24VDC input) , 25mA (per Unit, PoE 48VDC input)	
Rated Power	Main Unit *4	Standby: 3.5W Maximum: 6W (AC Adaptor, 100VAC input)	
Consumption	LED Unit	1.0W (per Unit, AC Adaptor, 100VAC input)	
Operating Ambie		0 - 40°C (No Dew or Condensation)	
Operating Amb		20%RH - 80%RH (No Dew or Condensation)	
Storage Ambier		-10 - 60°C (No Dew or Condensation)	
Storage Ambi		20%RH - 80%RH (No Dew or Condensation)	
Mounting Location		Indoor Only	
Mounting Direction		Upright	
Protectio		IP 20	
Insulation F		More than 10Mohm at 500VDC between live part and non-current carrying metallic part	
Ilisulation Resistance		1500VAC applied for 1min (10mA or less) between live part and non-current carrying	
Withstand	l Voltage	metallic part without breaking insulration	
Sound Pres	sura l aval	88dB or more	
	Environmental	Front direction from the center, at 1m, 1.8kHz sine wave played back at -6dB	
	Condition	MP3 data of the content and use of the environment, the sound pressure level will change.	
Audio Lin		600Ω 0dBV (Unbalanced, Monaural Mini-Jack)	
Addio Elli	NHV6	760g + (60g) x Signal Tower Tiers (AC Adaptor not included)	
	NHV4	750g + (35g) x Signal Tower Tiers (AC Adaptor not included) 750g + (35g) x Signal Tower Tiers (AC Adaptor not included)	
	NHV6-D	805g + (60g) x Signal Tower Tiers (AC Adaptor not included)	
Macc	ט-טיוויו		
Mass	1 NILIV// D		
Mass [Tolerance ±10%	•	795g + (35g) x Signal Tower Tiers (AC Adaptor not included)	
	NHV6-DP	850g + (60g) x Signal Tower Tiers	
[Tolerance ±10%	NHV6-DP NHV4-DP	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers	
[Tolerance ±10%	NHV6-DP NHV4-DP utput (Only D-type)	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers	
[Tolerance ±10% External Contact On Number 1985]	NHV6-DP NHV4-DP utput (Only D-type) per of Contacts	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2	
External Contact Or Numb	NHV6-DP NHV4-DP utput (Only D-type) per of Contacts tact Capacity	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference)	
External Contact On Number Con	NHV6-DP NHV4-DP utput (Only D-type) per of Contacts tact Capacity re Diameter	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi 0.41 - 0.81mm (AWG26 - 20)	
External Contact Or Number Con Williams	NHV6-DP NHV4-DP Output (Only D-type) over of Contacts stact Capacity re Diameter ring Method	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi\$ 0.41 - 0.81mm (AWG26 - 20) Screwless terminal block	
External Contact Or Number Con Wire Wire External Contact Ir	NHV6-DP NHV4-DP Utput (Only D-type) Der of Contacts Itact Capacity re Diameter ring Method Input (Only D-type)	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi 0.41 - 0.81mm (AWG26 - 20)	
External Contact Or Number Con Wire Wire External Contact Ir	NHV6-DP NHV4-DP Output (Only D-type) over of Contacts stact Capacity re Diameter ring Method	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi\$ 0.41 - 0.81mm (AWG26 - 20) Screwless terminal block Non-voltage contact input NPN Transistor 4	
External Contact Or Number Con Williams Williams External Contact Ir Number Contact	NHV6-DP NHV4-DP Utput (Only D-type) Der of Contacts Itact Capacity The Diameter Tring Method Tri	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi 0.41 - 0.81mm (AWG26 - 20)\$ Screwless terminal block Non-voltage contact input NPN Transistor 4 "ON" output current @ 6mA or less per channel	
External Contact Or Number Con With Contact Ir Number Con Contact Ir Number Con Contact Ir Contact	NHV6-DP NHV4-DP Utput (Only D-type) Der of Contacts Itact Capacity The Diameter Tring Method Tri	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi 0.41 - 0.81mm (AWG26 - 20)\$ Screwless terminal block Non-voltage contact input NPN Transistor 4 "ON" output current @ 6mA or less per channel Terminal OFF condition Voltage: 24VDC	
External Contact Or William Contact Ir Numb Con William Contact Ir Numb Con William Contact Ir Numb Con William Con William Con William William Con William Contact Ir William Con William Contact Ir William Contact Ir Numb	NHV6-DP NHV4-DP Utput (Only D-type) Der of Contacts Itact Capacity The Diameter Tring Method Tri	850g + (60g) x Signal Tower Tiers 840g + (35g) x Signal Tower Tiers Non-voltage contact output 2 (30VDC@3A) inrush current 5A or less (5VDC@1mA, Minimum, Reference) Solid Wire / Stranded Wire: \$\phi 0.41 - 0.81mm (AWG26 - 20)\$ Screwless terminal block Non-voltage contact input NPN Transistor 4 "ON" output current @ 6mA or less per channel	

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Communication Method IP Network		Ethernet (Conforms to the IEEE 802.3) 10BASE-T / 100BASE-TX / 1000BASE-T (Auto MDI / MDI-X)	
		IPv4 / IPv6 dual stack	
Interface		USB2.0/1.1 Type	
Outer Dimensions		Refer to the Outer Dimer	
Accessories		AC Adaptor *3 , Adhe	ū
	NHV6	LED Unit	LR6-E-RZ, RY, RG, RB, C LR6-E-R, Y, G, B, MZ
Compatible Unit		Wireless Data Acquisition System Transmitter	WDT-6LR-Z2
(Optional)	NHV4	LED Unit	LR4-E-RZ, RY, RG, RB, C LR4-E-R, Y, G, B
		Wireless Data Acquisition System Transmitter	WDT-4LR-Z2
		Wall Mounting Bracket	NH-001
Optional F	Parts	Partition Mounting Bracket	NH-002
		AC Adaptor	ADP-001
Conformity Standards		UL 62368-1, CSA C22.2 FCC Part 15 Subpart B(Class A EN 55032(Class A), EN 5503 (KS C 9610-6-4, KS C), ICES-003(Class A) 35, EN IEC 63000
Remark		*1 Only P-type *2 A PoE+ power supply HUB that complies with USB cannot be used with PoE-powered HUBs *3 Excludes N-type and P-type *4 Does not include USB current consumption *5 Only N-type and P-type • Conforms to the CE Requirements • Conforms • UL/cUL Listed	s that comply with IEEE802.3af.

2. Model

2.1. Model Number Configuration Signal Tower Type Signal Tower Tiers Power Supply Method LED Unit Color LR6(φ60) 0 tiers Blank AC Adaptor (included) R Red 4 LR4(φ40) 1 1 tier Ν AC Adaptor (not included) Y Amber 2 2 tiers PoE or G Green 3 AC Adaptor (not included) B Blue 3 tiers 4 4 tiers C White 5 5 tiers From top to bottom **Extension Function** Standard Blank External I/O (Include Mail Detection) Blank I/O does not exist Mail Detection М I/O exists

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2.2. Model Number List

ON NHV6-0 3N-RYG NHV6-1 0DN NHV6-1 3DN-RYG NHV6-1	R NHV6-3N-RY0 Y NHV6-0DN	-
3DN-RYG NHV6-1		
	-G NHV6-3DN-RY	
0DD NII.VC 0		∕G
0DP NHV6-2-	RY NHV6-0DP	
3DP-RYG NHV6-2-	RG NHV6-3DP-RY	′G
0M NHV6-3-	-RYG NHV6-0M	
3M-RYG NHV6-4	RYGB NHV6-3M-RY0	3
OMN NHV6-5-	-RYGBC NHV6-0MN	
3MN-RYG NHV6-0	D NHV6-3MN-RY	′ G
NHV6-1	D-R	
NHV6-1	D-Y	
NHV6-1	D-G	
NHV6-2	D-RY	
NHV6-2	D-RG	
NHV6-3	D-RYG	
NHV6-4	D-RYGB	
NHV6-5	D-RYGBC	
	3DP-RYG NHV6-2- 0M NHV6-3- 3M-RYG NHV6-4- 0MN NHV6-5- 3MN-RYG NHV6-0I NHV6-1I NHV6-1I NHV6-2I NHV6-2I NHV6-3I NHV6-4	3DP-RYG NHV6-2-RG NHV6-3DP-RY 0M NHV6-3-RYG NHV6-0M 3M-RYG NHV6-4-RYGB NHV6-3M-RYC 0MN NHV6-5-RYGBC NHV6-0MN

3. Action Specification

3.1. Information (Main Unit)

Signal	Tower	Lighting, Flashing pattern, and off lighting can be controlled for each LED.
	Flashing pattern 1	ON(500ms), OFF(500ms) (repetition)
	Flashing pattern 2	ON(80ms), OFF(170ms), ON(80ms), OFF(670ms) (repetition)
	Flashing pattern 3	ON(250ms), OFF(250ms) (repetition)
	Flashing pattern 4	ON(1000ms), OFF(1000ms) (repetition)
Sound		Up to 71 types of messages can be played on the main unit speaker and line output.
	Number of messages	MP3 File: 60 kinds Preset: 11 kinds
	MP3 Format	Bit Rate: 32kbit/s, 64kbit/s, 128kbit/s Constant Bit Rate (CBR) only
	Preset	Buzzer Sound : 5 kinds
	Playback Pattern	One-shot Playback, Repeat Playback, Endless Playback
	One-shot Playback	It is played back once per playback event.
	Repeat Playback	It is played back when set up to play a certain number of times per playback event.
	Nepeat Flayback	Number of playback times : 1 - 254
	Endless Playback	It will play back repeatedly per playback event.
	Playback Mode	Input Priority Playback, Memory Playback
	Input Priority Playback	If a new playback event occurs, the channel being played back
	input Fhonty Flayback	will be interrupted and a new channel will play.
	Memory Playback	When playback is ended, the next available channel stored in memory will play.
Notific	ation Sound	Up to 10 of Notification Sounds can be played in combination with other Sound.
	Number of Notification Sounds	MP3 File: 5 kinds Preset: 5 kinds
	MP3 Format	Bit Rate: 32kbit/s, 64kbit/s, 128kbit/s Constant Bit Rate (CBR) only
	Preset	Chime Sound : 5 kinds

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Buzzer	5 kinds of buzzer sounds	
Buzzer pattern 1	ON(250ms), OFF(250ms) (repetition)	
Buzzer pattern 2	ON(500ms), OFF(500ms) (repetition)	
Buzzer pattern 3	ON(200ms), OFF(50ms), ON(200ms), OFF(550ms) (repetition)	
Buzzer pattern 4	ON(continuity)	
Buzzer pattern 5	ON(1000ms), OFF(1000ms) (repetition)	

3.2. External Control

External Contact Output E		External contact output can be controlled when an event occurs or outputting sound.
	Contact Function	Digital Output, BUSY Output
	Digital Output	The digital "A Contact" or "B Contact" output
	Digital Output	for an automatic OFF function of the digital output port can be set up.
	BUSY Output	It controls the relay contact output
	BOST Output	in conjunction with the signal output from the line-out.

3.3. Information (Network)

Email Not	tification	When an event occurs, an e-mail message is transmitted
Nυ	umber of notifications	8
Au	thentication protocol	SMTP certification(Password, OAuth2), POP authentication
Se	ecurity	SSL/TLS, STARTTLS, none
SNMP No	tification	When an event occurs, Trap or Inform is executed.
Nυ	umber of notifications	8
Ve	ersion	v1 / v2c / v3
HTTP Not	ification	When an event occurs, HTTP command is executed.
Nυ	umber of notifications	8
Pro	otocol	HTTP, HTTPS
Me	ethod	GET
Au	thentication protocol	Basic Access Authentication, Digest Access Authentication, none
PLC Infor	mation Write Command	When "Clear operation" occurs, PLC Write Command can be executed.
Nυ	umber of notifications	4
		SLMP (The same format as the QnA compatible 3E and 4E frame of MC protocol)
Pro	otocol	FINS
		TCP / UDP

4. Function Specification

4.1. Main Unit Control Function

RSH Command	Controllable with RSH Command
SSH Command	Controllable with SSH Command
HTTP Command	Controllable with HTTP Command
Socket Communication	Controllable with PNS Command and PHN Command
SNMP Command	Controllable with SNMP "set" Command
Version	v1 / v2c / v3
"Clear" Button	Clear operation is possible with "Clear" Button of the main unit

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			Controllable Action						
Comman	ıd	Signal Tower	Sound	Buzzer	Digi-Out	e-mail	SNMP	HTTP	
RSH Comm	nand	√	✓	✓	✓	√ *1	√ *1	-	
SSH Comm	SSH Command		✓	✓	✓	√ *1	√ *1	-	
HTTP Comn	nand	1	√ *2	✓	✓	-	-	-	
Socket	PNS	√	✓	✓	✓	-	-	-	
Socker	PHN		-	△*4	-	-	-	-	
SNMP Comr	SNMP Command		√	√	✓	-	-	-	
"Clear" But	tton	1	√ *5	✓ *6	✓	√	√	√	

- *1 It can be used when e-mail or SNMP is set to "Active" in the RSH/SSH Command Configuration.
- *2 It is possible to play back received text data by performing speech synthesis in real time. Notification Sounds can be played in combination with before or after a synthesis sound.
- *3 Signal Tower "Red", "Amber" and "Green", and Flashing pattern 1
- *4 Buzzer pattern1 and Buzzer pattern2
- *5 In memory playback mode, you can proceed to the next message
- *6 It is possible to stop only the buzzer while maintaining the state of Signal Tower.

4.2. External Monitoring Function

Ping M		oring Function	Network abnormality detection by sending Ping network devices			
		ber of Monitoring	24			
	Num	ber of Group	3			
	Mon	itoring Cycle	1 - 600 seconds			
		ding Count	The number of times to detect can be set from 1 to 30.			
		ber of Sending	The number of sending Ping by one monitoring can be set from 1 to 3.			
SNMP		Reception Function	Trap Reception detection			
	Vers	-	v1 / v2c / v3			
	Num	ber of Reception	64			
	varia	able-bindings	2 OID per 1 Trap Reception			
		Detectable Type	INTEGER, OCTET STRING (String data, Binary data)			
SNMP	Supp	orted Equipment	For SNMP Supported equipment, with SNMP command,			
Monito	r Fur	nction	their status can be acquisitioned periodically and monitored.			
	Version		v1 / v2c / v3			
	Mon	itoring Cycle	1 - 60 seconds			
	Detection method		Condition Agreement Detection : 20 Change Detection : 5			
		Condition Agreement	Dtection that the acquired value meets the condition			
		Detectable Type	INTEGER, OCTET STRING (String data, Binary data)			
		Change Detection	Detection that the acquired value has changed			
		Detectable Type	INTEGER			
Mail De	etecti	ion (Only M-type)	Detect incoming mail on the mail server.			
	Proto		IMAP, IMAPS, POP3, POP3S			
	Auth	entication method	Password Authentication, OAuth2			
	Encr	yption Method	SSL/TLS, STARTTLS, none			
	Mail check interval		10 - 3600 seconds			
	Read aloud of the email		Play email content with speech synthesis.			
	Control by the email		Control using specific characters (control tags) included in detected email content			
	Filter Rule		Conditions for detecting target emails can be set.			
		Number of Condition	20			
		Detection Target	Sender, Subject, Body text			
		Decision condition	[Matches with], [Beginning with], [Include], [Be free of]			

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External Contact Input Monitor Function		It monitors the state change of external contact input.			
Digital Logic Setti	ing	A Contact, B Contact			
Detection method	j	Status Change Detection, Status Agreement Detection			
Status Ch	ange	Detection of change from OFF to ON or change from ON to OFF			
Ctatus As	roomont	Detecting the input for a certain period of time			
Status Ay	tus Agreement	Detection time: 1 - 3600 seconds Number of Detection: 4			
PLC Information Read (Command	Detects the state change of the device information of the PLC			
Number of Monito	ring	16			
Transmission Inte	erval	10ms / 50ms / 100ms			
		SLMP (The same format as the QnA compatible 3E and 4E frame of MC protocol)			
Protocol		FINS			
		TCP / UDP			

		Excutable action at detection							
Monitoring	Signal	Sound	Buzzer	Digi-Out	e-mail	SNMP	HTTP	MQTT	PLC Information Write Command
Ping Monitoring	✓	1	✓	✓	✓	1	√	✓	•
SNMP Trap Reception	1	1	✓	✓	1	1	1	1	-
SNMP Supported	✓	1	✓	✓	✓	1	√	✓	•
Mail Detection *1	√	1	✓	√	/	1	/	\	•
External Contact Input	√	1	✓	√	/	1	/	\	•
PLC Information Read Command	✓	1	✓	✓	✓	✓	✓	✓	-

4.3. Main Unit Status Acquisition Function

RSH Command	The state of the main body can be acquired by the status acquisition command.
SSH Command	The state of the main body can be acquired by the status acquisition command.
Socket Communication	Status acquisition available with PNS Command and PHN Command
SNMP Command	Status acquisition available with SNMP "get" Command
Version	v1 / v2c / v3
HTTP Communication	The state of the main body can be acquired in XML/JSON data format.

		Acquisition data					
Comman	Command		Sound	Buzzer	Digi-In	Digi-Out	
RSH Comm	RSH Command		✓	✓	✓	✓	
SSH Command		✓	✓	✓	✓	✓	
Socket	PNS	✓	-	✓	-	-	
Socket	PHN		-	√ *2	-	-	
SNMP Command		✓	✓	✓	✓	✓	
XML/JSON format file		✓	✓	✓	✓	✓	

^{*1} Signal Tower "Red", "Amber" and "Green", and Flashing pattern 1
*2 Buzzer pattern 1 and Buzzer pattern 2

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4.4. Main Unit Setting Function

T.T. Main Offic Octoring Function					
Time Correction Function	The internal clock in this product can communicate with an NTP server				
Time Correction I direction	to automatically correct the time.				
Automatic Network Setting	Network setting in this product can communicate with an DHCP server				
Automatic Network Setting	to automatically set.				
Master Volume Setting	Master Volume of Buzzer and Sound can be set				
Flash Control Setting	The brightness of the LED unit can be reduced.*1				
Standard Action Setting	The color of Signal Tower that lights up after the clear operation is executed can be set				
Self-test Function	Self test of Signal Tower and buzzer is possible				
Self-lest Fullction	with test button of the main body and RSH/SSH command.				
Config Setting	Various settings of the main body can be read and written as setting file.				
Event Log	Event logs can be downloaded via web browser and USB flash drive.				
USB Flash Drive Function	USB flash drive can be used to read and written configuration files,				
OSB Flash Drive Function	update firmware, and download Event logs.				
Text-to-speech synthesis	Speech synthesis from text data can be registered as voice data.				
Supported languages	Japanese (Kanji-Kana mixed text), English, Chinese *4				
Main Unit Setting	Various settings of the main body can be done with a web browser.				
Supported browsers	Google Chrome *2 Microsoft Edge *3				
Languages supported	Japanese, English, Traditional Chinese, Sinplified Chinese, Korean, Thai				
on the setting screen	German, French, Italian, Spanish, Mexican				

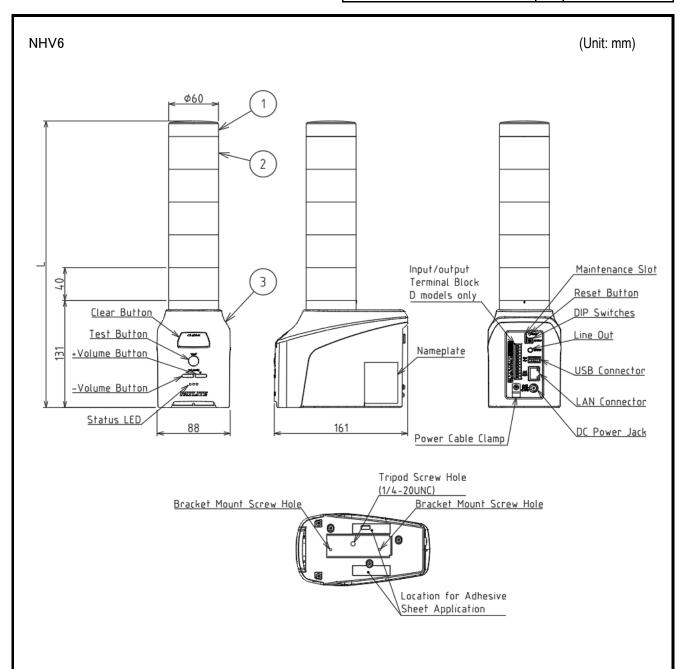
- *1 Light reduction is not possible when using LR4/6-E-MZ or WDT-4/6LR-Z2.
- *2 Google Chrome is a trademark or registered trademark of Google LLC.
- *3 Microsoft Edge is registered trademark of Microsoft Corporation in the United States and other countries.
- *4 Text-to-speech synthesis in Chinese is supported only for production after October 2023.

4.5. Cloud Function

Supported Cloud Platform		Microsoft Azure *1		
		Amazon Web Services (AWS) *2		
	Connection	Azure IoT Central/DPS, Azure IoT Hub		
A zuro	Settings	(IoT Plug and Play)		
Azure	Duilt in factures	Device Twin, Direct Method, Device-to-cloud Message,		
Built-in leatures	Cloud-to-device Message			
AVAC	Connection Settings	AWS IoT Core		
AWS	Built-in features	Device Shadow, MQTT client		
Main Unit Control		Signal Tower, Sound *3, Buzzer, Digital Output		
Main Unit Status Acquisition		Signal Tower, Sound, Buzzer, Digital Output		
Main Unit Status Transmission		Signal Tower, Sound, Buzzer, "Clear" button,		
		Digital Output, Digital Input		
	Azure AWS Unit Con Unit Stat	Azure Connection Settings Built-in features Connection Settings Built-in features Unit Control Unit Status Acquisition		

- *1 Microsoft Azure is registered trademark of Microsoft Corporation in the United States and other countries.
- *2 Amazon Web Services, the "Powered by AWS"logo, and any other AWS trademarks used in such materials are trademarks of Amazon.com, Inc. or its affiliates in the United States and other countries.
- *3 It is possible to play back received text data by performing speech synthesis in real time. Notification Sounds can be played in combination with before or after a synthesis sound.

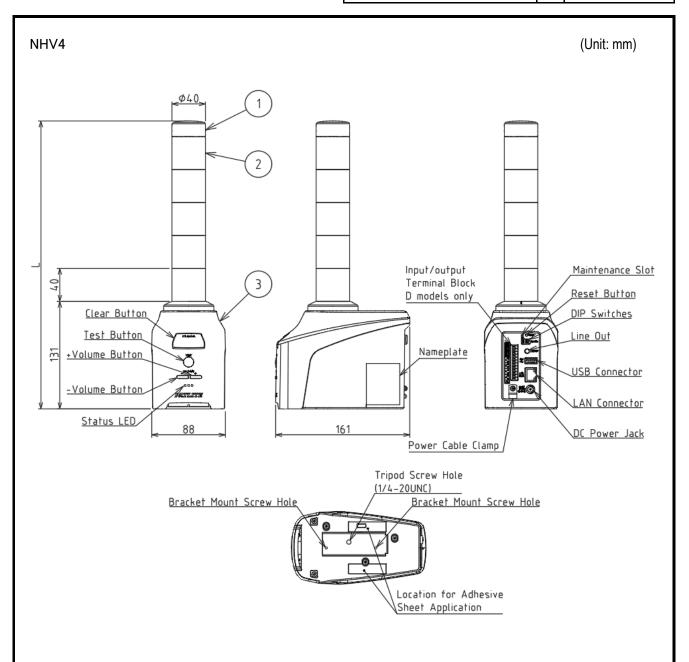
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No.	Parts name	Material	Color
1	Head Cover	PC	Off-white
2	LED Unit	PC	Clear
3	Main Body	ABS	Off-white/Medium Gray

Number of LED	L
0 tiers	150
1 tier	190
2 tiers	230
3 tiers	270
4 tiers	310
5 tiers	350

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No.	Parts name	Material	Color
1	Head Cover	PC	Off-white
2	LED Unit	PC	Clear
3	Main Body	ABS	Off-white/Medium Gray

Number of LED	L
0 tiers	150
1 tier	190
2 tiers	230
3 tiers	270
4 tiers	310
5 tiers	350

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