

Function List of the G3 Paperless Multimedia Congress System

Type No.	Installation	Microphone capsule			Screen		Built-in E-ink nameplate	Printed nameplate
		1 pc	2 pcs	Array	10"	14"		
HCS-8366D	Tabletop				•			•
HCS-8366D		•				•		
HCS-8366D-NP					•		•	
HCS-8366D-NP						•		
HCS-8366AD					•			•
HCS-8366AD				•		•		
HCS-8366AD-NP					•		•	
HCS-8366AD-NP						•		
HCS-8366D/2M						•		•
HCS-8366D/2M							•	
HCS-8366D/2M-NP						•	•	
HCS-8366D/2M-NP				•				
HCS-8366D/2MP						•		•
HCS-8366D/2MP							•	
HCS-8366D/2MP-NP						•	•	
HCS-8366D/2MP-NP							•	
HCS-8366AD/FM		Flush-mounted			•	•		
HCS-8366AD/FM		with electric flip-up					•	

The G3 Paperless Multimedia Congress System



ISO9001:2015
Certification No. 01048
Certificate No. 1311 02019



CE mark
Approving EMC and Safety
Certificate No. WT1300824 WT13800918



FCC certified
Certificate No. WT13800320



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The G3 Paperless Multimedia Congress System

The world's first paperless multimedia congress system, developed by TAIDEN as early as in 2010, has ushered in a new era for the conferencing industry and has been used at many high-profile international conferences and meeting venues, testifying in return to its excellence and superiority.

Not stopping there, TAIDEN later launched its third generation paperless multimedia congress system in 2016. The new system boasts of superb HD paperless experience, greater system reliability, budget-conscious integration of functions and convenient management with its ultra-thin design, larger capacitive touch screen and higher megapixel camera. Either tabletop or flush-mounted model provides its users with faster, more convenient and efficient operation experience. Another innovative and brand-new member — the dual microphone paperless multimedia congress terminal with an extra backup microphone is also added to the growing product line.



Higher definition paperless experience
More convenient and budget-conscious integration
Simpler installation and management
Greater system reliability and security



Features

- Equipped with a 14" (1920×1080) / 10" (1920×1200) HD TFT LCD touch panel, offering better paperless event experience including document reading, HD video watching, interactive meeting management (discussion, voting, 64 CHs×2 interpretation) and meeting services
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flashlight, ingenious video intercom function
- Based on TAIDEN's proprietary mMediaCongress™ brand-new platform, making the system safe and reliable
- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- TAIDEN's patented MCA-STREAM digital audio processing and transmission between conference units as well as between conference units and main unit(s)
- Assignment of audio sources into 6 groups based on TAIDEN's proprietary CongressMatrix™ technology and a built-in n×8 audio matrix processor
- Audio sampling of 48 kHz and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Sole ID for each conference unit for convenient installation and maintenance
- Easy integration with peripheral devices for automatic video tracking, network central control and input of alarm signal, etc.
- PoE or DC power supply
- Built-in E-ink electronic nameplate (available on models with "-NP" as suffix)
- Flush-mounted model comes with electric flip-up and angle adjustment (HCS-8368A/FM, HCS-8366A/FM)
- Tabletop (HCS-8368, HCS-8366)
- Array microphone (HCS-8368A, HCS-8366A)
- Dual-microphone with backup microphone (HCS-8368/2M, HCS-8366/2MP, HCS-8366/2M, HCS-8366/2MP)

Tabletop Paperless Multimedia Congress Terminal

Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Equipped with a 14" HD TFT LCD touch panel (1920×1080) or 10" HD TFT LCD touch panel (1920×1200), offering better paperless event experience
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flashlight
- Up to 64 (63+1) channels of simultaneous interpretation and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- 64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Optional printed nameplate and models with built-in E-ink electronic nameplate
- Various options with gooseneck microphones (HCS-8368, HCS-8366) and array microphones (HCS-8368A, HCS-8366A)
- Dimensions: (h×w×d, mm, stem not included):
HCS-8368: 210×349×122
HCS-8366: 170×252×122
- Weight: HCS-8368: 1.8 kg, HCS-8366: 1.5 kg



HCS-8366A (10")



HCS-8366 (10")



HCS-8368A (14")



HCS-8368 (14")

- Gray
- Black



Flip-up Paperless Multimedia Congress Terminal

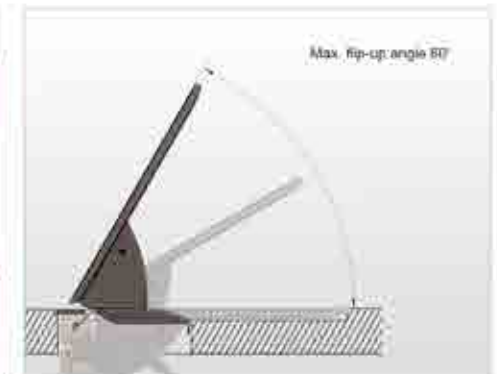


HCS-8368A/FM



Features

- Elegant and compact flush-mount design with motorized angle adjustment
- Best possible viewing experience with a 80-degree flip-and-fold design
- Easy and quick management with electric flip-up of all units through the software
- Equipped with a 14" HD TFT-LCD touch panel (1920×1080) or 10" HD TFT-LCD touch panel (1920×1200), offering better paperless event experience
- Capacitive touch panel supporting multi-touch, improving operation experience
- 8-megapixel camera with flashlight
- Up to 64 (83+1) channels of simultaneous interpretation and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Array microphone (HCS-8368A/FM, HCS-8366A/FM)
- Dimensions (h × w × d, mm) (w/o microphone): HCS-8368A/FM: 232×349×109
HCS-8366A/FM: 186×252×109
- Weight: HCS-8368A/FM: 2.3 kg, HCS-8366A/FM: 2.0 kg



Paperless Multimedia Congress Terminal with Backup Microphone

Innovative dual-microphone paperless multimedia congress terminal features an isolated main microphone and an extra backup microphone. When the main microphone fails, the system will switch on the backup microphone to ensure a smooth and uninterrupted meeting flow.

Congress Terminal with Backup Microphone



HCS-8368/2M(P)
The G3 Paperless Multimedia Congress Terminal
(Main microphone + backup microphone)



HCS-8368/2M(P)
The G3 Paperless Multimedia Congress Terminal
(Main microphone + backup microphone)

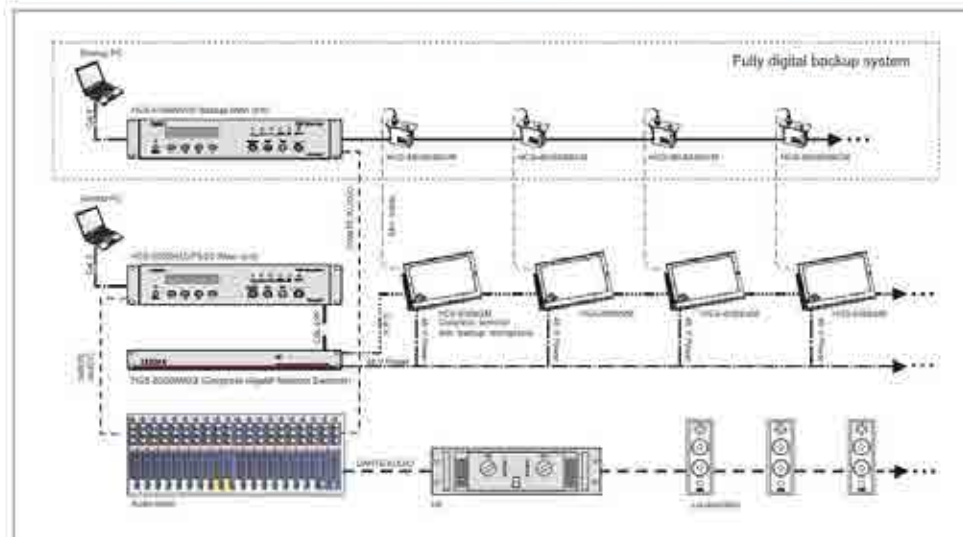


HCS-8368/2M(P)
The G3 Paperless Multimedia Congress Terminal
(Main microphone + backup microphone)

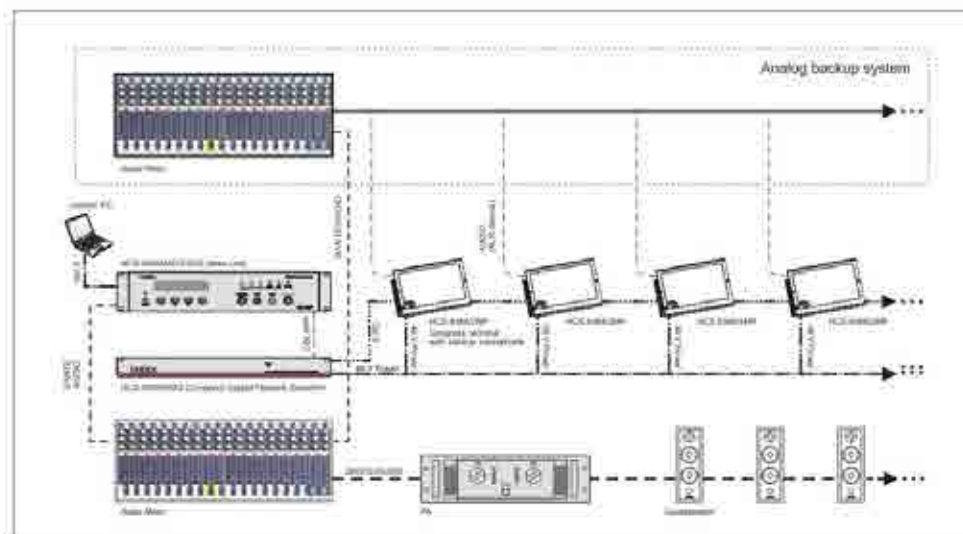


HCS-8368/2M(P)
The G3 Paperless Multimedia Congress Terminal
(Main microphone + backup microphone)

High-end Conference Solution with Fully Digital Dual-backup Microphone



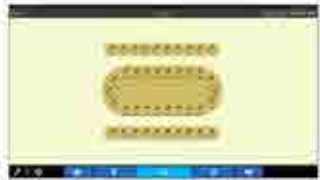
High-end Conference Solution with Digital & Analog Backup



Interactive Meeting Management

Microphone Management

Viewing room layout and speaker list; controlling of operation mode, number of active microphones (1/2/3/4) and master volume; management of microphone statuses including On/Off, applying and blinking.



Conference Room Layout



Microphone Management



Setting

Sign-in & Voting

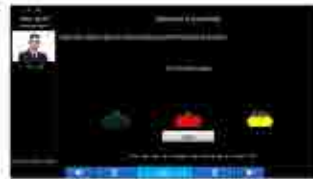
Voting function only available after sign-in on the congress terminals; various forms of voting and voting on proposals can be realized and defined on the software; ballot selfie function can be configured for important proposals for archiving and confirming delegates. View of proposal list, control of voting process, display of voting result and list of voters for disclosed ballot on congress terminals with voting control function.



Conference Sign-in



View of Proposals



Voting Selfie



Multifom Voting



Multifom Voting



Display of Voting Result

64 CHs × 2 Simultaneous Interpretation

One 3.5 mm headphone jack on each side for independent volume control and selection of language channels, offering a budget-conscious solution by allowing two delegates to share one terminal.

Intuitive language list and volume control for quick channel switch and volume adjustment on the screen instead of using the traditional step-by-step selector.



One headphone jack on each side for independent volume control



Paperless Conference Functions



Lecture



Sharing



Paperless



Camera

- Conference documents management: download/upload from/to file server with congress terminal; control of uploading, downloading or deleting on an individual or a batch of congress terminals also by the server; rights for conference document management; saving documents to archives
- Speech text guidance: automatic or manual speech guidance with configurable speed, font size and color
- Reader and editor of text file (.txt) and Office documents (.doc, .ppt, .xls) with a variety of licensed input methods
- Image file (.jpg, .png, .gif) and PDF reader
- Meeting record: note taking and saving on the built-in electronic notebook
- Desktop sharing: documents issued by this congress terminal can be displayed on large hall screens and other congress terminals to realize ad hoc reporting
- Delegate information and seating display
- Conference agenda display
- Photo taking
- Delegate photo for attendance check and record facility on important conferences
- Viewer and editor of short messages



Conference Document Management



Speech Text Guidance



Speech Text Guidance - Setting



Document Viewing and Editing



Desktop Sharing



Photographing



Multiform Video Service



Multimedia



VOD

- Multichannel video broadcasting: various video sources from such as HD camera, cable TV or video tape can be broadcast in high definition synchronously to all congress terminals.
- Multichannel video on demand (up to 10 channels)
- Video display:
 - The large hall screen can be displayed on the congress terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
 - Video commercials can be published on video server and watched on congress terminals.
 - Video file playback either from congress terminal or from SD card



Ingenious video intercom function: video conversation between any two paperless congress terminals within the system, or realizing remote video conference through the video server



Video Intercom

Conference Service

- Call service
- Call secretary



Conference Service

A service request will bring up a prompt box on the software, double click to view the request details and its initiator's seat.



Chairman Control



Priorities on Chairman Unit:

- Activation at any time provided that the number of active microphones in the system is less than 6
- Priority button to switch off or mute the active microphone according to the presetting
- Approval/denial of speaking requests without PC
- Launch of parliamentary voting (Yes/No/Abstain) session without PC



Internet Access

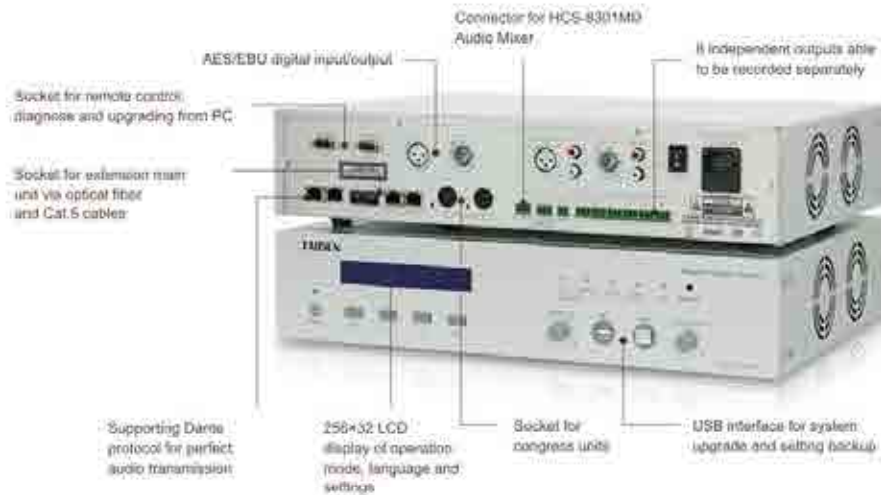


Web browsing during the meeting through the Internet or the LAN.



Congress Terminal Dedicated to the Information Age

HCS-8300M Series Fully Digital Congress Main Unit



HCS-8300KMX2 Congress Gigabit Network Switcher	HCS-8368T Distributor
<p>Connector for Ethernet switcher.</p> <p>Connector for congress terminals.</p> <p>Synchronous On/Off status with main unit after connecting to a main unit or cascading to another HCS-8300KMX2.</p> <p>PoE switch to choose way of power supply</p> <p>ON: Connecting DELEGATE port to congress terminals or the Distributor HCS-8368T for power supply and transmission of control data and multimedia data.</p> <p>OFF: DELEGATE port supporting daisy-chain connection to congress terminals with power supply via 3.2P aviation plugs.</p>	<p>Connector with one HCS-8368T congress terminal on each port.</p> <p>Connector for HCS-8300KMX2.</p> <p>DC power socket for external power supply to guarantee a stable signal transmission.</p> <p>Extension of congress terminals in PoE mode.</p>

Features

- Compliant with IEC 60914.
- Built-in $n \times 8$ audio matrix processor based on TAIDEN proprietary CongressMatrix™ technology ("n" stands for the number of microphones connected in the system)
 - 8 independent outputs able to be recorded separately
 - With "Mix-Minus" function, up to 8 zones can be fed with different audio signals, and audio signal from each microphone can be adjusted and routed to any other loudspeakers except the closest one to improve transmission gain without howling
 - Visual display of audio spectrum for an easier and in-time EQ adjustment to avoid howling
- Fully digital control of the main unit and digital transmission between congress units and the main unit based on TAIDEN's proprietary MCA-STREAM digital processing and transmitting technologies
- Audio signal processing by dedicated high-performance DSP with its audio sampling at 48 kHz and 32 kHz, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Flexible for connection with various audio input or output devices
 - Connecting to HCS-8300MO series 8 Channels Audio Output Device for multi-channel output of digital/analog signal used by simultaneous interpretation system or for recording
 - Gain and EQ of two Line Out signals or one Line Out signal plus one microphone input (allowing connection to electret condenser microphone with +24V phantom power) adjustable separately
 - Connection to extra electret or dynamic microphones (with HCS-8300MI series 8 Channels Audio Input Interface)
- Intercom
- Various forms of conference room coupling/splitting with TAIDEN's dedicated devices
- With extension main units can enable connection to:
 - 4096 contribution units or voting units
 - 378 interpreter units (in 83 booths with 6 for each at most)
 - An unlimited number of channel selectors
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a congress unit and connection failure of a cable will not influence other congress units
- Compatible with TAIDEN HCS-4100/50 Series Fully Digital Congress System but without the features distinctive of the HCS-8300 series
- Transmitting up to 64 channels (including the floor) of digital audio signals and accommodating more audiences with channel selectors and/or IR language distribution system
- Able to work in stand-alone mode for discussion, voting (Yes/No/Abstain) and 1+63 CHs simultaneous interpretation
- Comprehensive meeting management functions with dedicated management software
- Hot backup of the main unit where another main unit is configured as a standby and ready to take over once the system fails
- Automatic switch of the main unit to stand-alone mode in case of PC failures to ensure a smooth meeting flow
- Compatible with peripheral devices for video tracking, alarm system and central control over network
- Fit in standard 19" rack



Management Software used at ECOSOC, the UN headquarters

	<p>HCS-8300ME Series Congress Extension Main Unit</p> <ul style="list-style-type: none"> Allows for system capacity extension when used together with main unit(s) of HCS-8300M or HCS-4100M/50 series
	<p>HCS-8300MI Series 8 Channels Audio Input Interface</p> <ul style="list-style-type: none"> Transmits 8 channels of digital (AES/EBU)/analog audio to the interpretation channel of the conference system for remote interpretation or transmits to the floor channel
	<p>HCS-8300MO Series 8 Channels Audio Output Device</p> <ul style="list-style-type: none"> Converts digital audio signals of the conference system into multi-channel digital (AES/EBU)/analog signals for interpretation or recording
	<p>HCS-8300MX Congress Room Combiner</p> <ul style="list-style-type: none"> Perfect solution for selective coupling or splitting of conference rooms 8 X RJ45 standard socket for connection with congress main unit Enables coupling of up to 8 rooms with one combiner

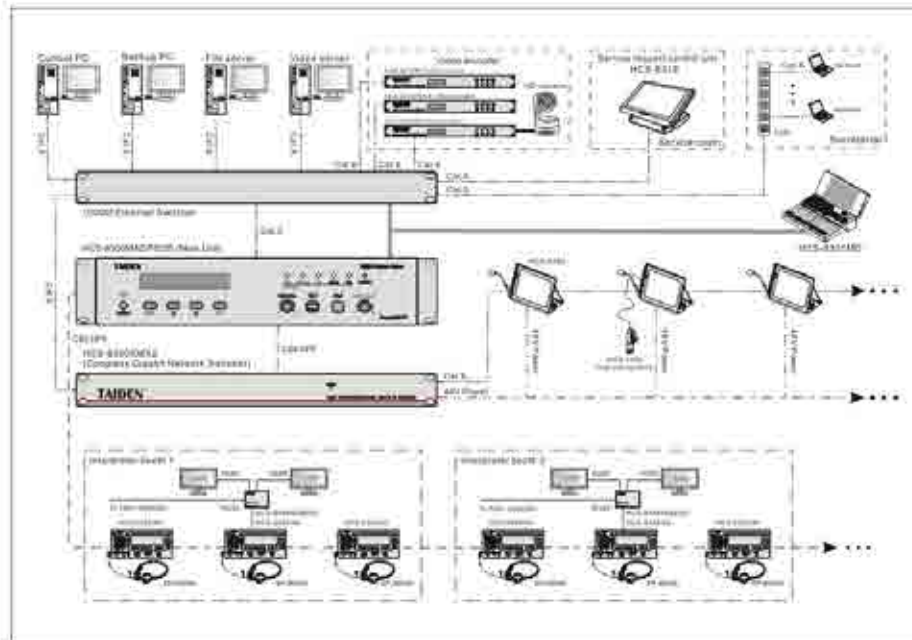
	<p>HCS-8300MX/FS Booth Combiner</p> <ul style="list-style-type: none"> Perfect solution for selective coupling or splitting of interpretation booths Up to 8 booths can be coupled or splitted Allows for coupling or separating of conference rooms (8/12/24) and enables interpreter booth sharing with HCS-8302MX/FS General Controller
	<p>HCS-8316 Series Encoder</p> <ul style="list-style-type: none"> For encoding and transmitting high-definition video signals (720P/1080i/1080P) or VGA signals at high resolution and fps For encoding and transmitting standard definition video signals (D1/CIF) For encoding and transmitting VGA signals
	<p>HCS-8302MX/FS/08/12/24 Series General Controller For Booth Combiners</p> <ul style="list-style-type: none"> Allows for coupling or splitting of conference rooms (8/12/24) and enables interpreter booth sharing with HCS-8300MX/FS Booth Combiner
	<p>HCS-8301MD Digital Audio Mixer</p> <ul style="list-style-type: none"> Real-time adjustment and monitoring of microphone's input, AES/line input/output and simultaneous interpretation when used together with HCS-8300MAD/FS/20 Congress Main Unit Earphones monitoring with channel selector and volume control 10" TFT LCD screen for status display

Polar Pattern of Array Microphone



Congress terminals of HCS-8366A and HCS-8366B series all boast of a better sound pickup and transmission gain with microphone array technology and CongressMatrix™ technology, enabling delegates to speak at a greater distance from the microphone. Unlike traditional gooseneck microphones, the array microphone offers a tidier and eye-pleasing installation and frees speakers from the discomfort of being pointed by microphones. (A successful application of microphone array technology requires a good acoustic environment.)

Standard Connection Diagram for the G3 Paperless Multimedia Congress System



Technical Specifications

		HCS-8366	HCS-8366B
System Spec	Frequency response	30 – 20000 Hz	
	SNR	>96 dBA	
	Dynamic range	>94 dB	
	Isolation	>85 dB	
	THD	<0.05%	
	LINE IN 1	+10 dBu, BAL.	
	LINE IN 2	+10 dBu, UNBAL.	
	AES IN	XLR 1FFS	
	LINE OUT 1	+20 dBu, BAL.	
	LINE OUT 2	+20 dBu, UNBAL.	
	AES OUT	XLR 1FFS	
GROUP OUT (1-6)	+20 dBu, BAL.		
LCD	Dimension	10", 16:10	14", 16:9
	Resolution	1920*1200	1920*1080
	Display color	24 bit	16 bit
	Contrast	800:1	700:1
Max. consumption	12 W	14 W	
Earphone load impedance	≥16 Ω		
Earphone output	13 mW		
Earphone jack	2*Ø 3.5 mm stereo headphone jack		
Connection	Gigabit network ports		
Color	Black (PANTONE 419 C) Gray (PANTONE 426 C)		
Dimensions (h × w × d) (w/o microphone)	Tabletop	170x252x122 mm	210x349x122 mm
	Flush-mounted	186x252x109 mm Max. flip-up angle 60°	232x340x109 mm Max. flip-up angle 60°
Weight	Tabletop	1.5 kg	1.8 kg
	Flush-mounted	2.0 kg	2.3 kg
Microphone	Transducer	Electret-condenser	
	Polar pattern	Uni-directional	
	Array microphone	Polar pattern refers to the above figure	
	Sensitivity	-46 dBV/Pa	
	Frequency response	50 – 20000 Hz	
	Input impedance	2 kΩ	
	Directivity 0°/180°	> 20 dB (1 kHz)	
	Equivalent noise	20 dBA (SPL)	
	Maximum sound pressure level	125 dB (THD<3%)	