HCS-8368NBD
The G3 Paperless
Multimedia Congress Terminal

Features

- **Stylish and ergonomic design with an ultra-thin 6.5 mm screen**
- **Electronic document distribution for paperless meetings**
- **Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting**
- **Equipped with a 14'' LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience**
- **Capacitive touch panel supporting multi-touch, improves operation experience**
- **8-megapixel camera with flashlight**
- **"Closed Loop - Daisy Chain" connection topology**
- **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals**
- **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Excellent immunity to RF interferences from mobile phones**
- **Supporting "PnP" (plug and play)**
- **DC or PoE power supply**
- **Internet access**

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, memorandum editing, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc. Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to IEC 60914
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "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 in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Interactive conference control and management function:
  - Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  - Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - Speech text guidance: speed, font size and font colors configurable by user

- ♦ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
  - ♦ Image file reader
  - ♦ Memorandum: recording on electronic notebooks and saving the record of the meeting
  - ♦ 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 conference agenda display
  - ♦ Take photo
  - ♦ Delegate photo for attendance check and record facility on important conferences
  - ♦ Internet access: related information is available through the Internet or the LAN during the meeting
- ■ Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- ■ Multiform video service:
  - ♦ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ♦ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ♦ Video display function:
    - ▪ The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - ▪ Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - ▪ Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- ■ Conference service:
  - ♦ Short messages reader and editor
  - ♦ Call service, call secretary
- ■ Based on TAIDEN originated MCA-STREAM digital audio technology
- ■ Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- ■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- ■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- ■ Automatic recovery facility, supporting "PnP" (plug and play)
- ■ Mini-microphone, with foam windshield
- ■ Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- ■ Excellent immunity to RF interferences from mobile phones and comparable devices
- ■ Supports up to 64 (1+63) CHs simultaneous interpretation
- ■ 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)

- ■ Optional printed nameplate (HCS-8368NBD)
- ■ E-ink Nameplate can be connected (HCS-8368NBD-NP)
- ■ Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- ■ Facilities in stand-alone operation:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - · "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - · "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - · "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off icon to talk
  - ♦ Key press sign-in
  - ♦ Voting function (Yes/No/Abstain)
  - ♦ Simultaneous interpretation
- ■ Multiform voting in combination with the corresponding software modules
- ■ Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- ■ Set any delegate unit to be VIP unit
  - ♦ Up to 32 units can be set as VIP in one system via application software
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- ■ Getting authorized from file server, the following meeting control functions will be provided:
  - ♦ Microphone control
  - ♦ Voting control
  - ♦ Desktop sharing control

Controls and Indicators

- ■ Graphic 14" LCD touch panel for interactive functions
- ■ Uni-directional electret condenser microphone with two–color illuminated ring
- ■ Channel select icons
- ■ Headphones volume up and down icons
- ■ Microphone On/Off icon

Interconnections

- ■ 2 × Ø 3.5 mm stereo headphone jack with volume control
- ■ SD card slot for extended storage and system upgrade
- ■ DC power supply:
  - ♦ Two Gigabit network ports for "daisy chain" connection
  - ♦ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- ■ PoE: the Gigabit network port nearby the microphone supports PoE

Technical Specifications

Electrical

Max. consumption .... 14 W

LCD

Type .... True color TFT LCD
Dimension .... 14 inches, 16:9
Resolution .... 1920×1080
Display color .... 2^{18}(18 bit)
Contrast 700:1

Headphone connection

Frequency response .... 30 Hz to 20 kHz
Earphone load impedance .... >16 Ohm
Earphone output .... 13 mW

Microphone

Transducer .... Electret-condenser
Polar pattern .... Uni-directional
Operating voltage .... 5 VDC
Sensitivity .... -46 dBV/Pa
Frequency response .... 50 Hz to 20 kHz
Input impedance .... 2 kOhm
Directivity 0°/180° .... > 20 dB (1 kHz)
Equivalent noise .... 20 dBA (SPL)
Maximum sound pressure level .... 125 dB (THD<3%)

Interface data

Connector .... 2 × Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting .... Tabletop
Dimensions (h × w × d) (w/o microphone)
.... 210 × 349 × 122 mm
Weight (incl. microphone) .... 1.8 kg
Color .... Gray (PANTONE 426 C)
/ Black (PANTONE 419 C)

Ordering Information

HCS-8368NBD_G .... The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, gray)

HCS-8368NBD_B .... The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, black)

HCS-8368NBD-NP_G .... The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, E-ink Nameplate can be connected, support PoE, gray)

HCS-8368NBD-NP_B .... The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, E-ink Nameplate can be connected, support PoE, black)

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■ **Electronic document distribution for paperless meetings**

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■ **Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience**

■ **Capacitive touch panel supporting multi-touch, improves operation experience**

■ **8-megapixel camera with flashlight**

■ **"Closed Loop - Daisy Chain" connection topology**

■ **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**

■ **64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half**

■ **Transmitting up to 64 CHs high quality digital audio signals**

■ **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**

■ **Excellent immunity to RF interferences from mobile phones**

■ **Supporting "PnP" (plug and play)**

■ **DC or PoE power supply**

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, memorandum editing, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.
Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Functions

■ Compliant to IEC 60914

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■ Interactive conference control and management function:

♦ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit

♦ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.

♦ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.

■ Paperless conference functions:

♦ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives

♦ Speech text guidance: speed, font size and font colors configurable by user

- ♦ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
  - ♦ Image file reader
  - ♦ Memorandum: recording on electronic notebooks and saving the record of the meeting
  - ♦ 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 conference agenda display
  - ♦ Take photo
  - ♦ Delegate photo for attendance check and record facility on important conferences
- Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- Multiform video service:
  - ♦ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ♦ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ♦ Video display function:
    - ▪ The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - ▪ Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - ▪ Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- Conference service:
  - ♦ Short messages reader and editor
  - ♦ Call service, call secretary
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Mini-microphone, with foam windshield
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)

- Optional printed nameplate (HCS-8368BD)
- E-ink Nameplate can be connected (HCS-8368BD-NP)
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - · "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - · "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - · "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off icon to talk
  - ♦ Key press sign-in
  - ♦ Voting function (Yes/No/Abstain)
  - ♦ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ♦ Up to 32 units can be set as VIP in one system via application software
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Getting authorized from file server, the following meeting control functions will be provided:
  - ♦ Microphone control
  - ♦ Voting control
  - ♦ Desktop sharing control

Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two–color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

Interconnections

- 2 × Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- DC power supply:
  - ♦ Two Gigabit network ports for "daisy chain" connection
  - ♦ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- PoE: the Gigabit network port nearby the microphone supports PoE

Technical Specifications

Electrical

Max. consumption ⸻ 14 W

LCD

Type ⸻ True color TFT LCD
Dimension ⸻ 14 inches, 16:9
Resolution ⸻ 1920×1080
Display color ⸻ 2^{18}(18 bit)
Contrast ⸻ 700:1

Headphone connection

Frequency response ⸻ 30 Hz to 20 kHz
Earphone load impedance ⸻ >16 Ohm
Earphone output ⸻ 13 mW

Microphone

Transducer ⸻ Electret-condenser
Polar pattern ⸻ Uni-directional
Operating voltage ⸻ 5 VDC
Sensitivity ⸻ -46 dBV/Pa
Frequency response ⸻ 50 Hz to 20 kHz
Input impedance ⸻ 2 kOhm
Directivity 0°/180° ⸻ > 20 dB (1 kHz)
Equivalent noise ⸻ 20 dBA (SPL)
Maximum sound pressure level ⸻ 125 dB (THD<3%)

Interface data

Connector ⸻ 2 × Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting ⸻ Tabletop
Dimensions (h × w × d) (w/o microphone)
⸻ 210 × 349 × 122 mm
Weight (incl. microphone) ⸻ 1.8 kg
Color ⸻ Gray (PANTONE 426 C)
/ Black (PANTONE 419 C)

Ordering Information

HCS-8368BD_G ⸻ The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, gray)

HCS-8368BD_B ⸻ The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, black)

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HCS-8368NAD
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Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Features

- **Stylish and ergonomic design with an ultra-thin 6.5 mm screen**
- **Electronic document distribution for paperless meetings**
- **By adopting microphone-array technology, the sound pick-up performance is improved considerably**
- **Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting**
- **Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience**
- **Capacitive touch panel supporting multi-touch, improves operation experience**
- **8-megapixel camera with flashlight**
- **"Closed Loop - Daisy Chain" connection topology**
- **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **64 CHs × 2 interpretation (tabletop terminal) with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals**
- **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
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- **DC or PoE power supply**
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- ■ Automatic recovery facility, supporting "PnP" (plug and play)
- ■ Microphone array technology
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- ■ E-ink Nameplate can be connected (HCS-8368NAD-NP)
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Sensitivity .... -46 dBV/Pa
Frequency response .... 50 Hz to 20 kHz
Input impedance .... 2 kOhm
Directivity 0°/180° .... > 20 dB (1 kHz)
Equivalent noise .... 20 dBA (SPL)
Maximum sound pressure level .... 125 dB (THD<3%)

Interface data

Connector .... 2 × Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting .... Tabletop
Dimensions (h × w × d) (w/o microphone) ... 210 × 349 × 122 mm
Weight (incl. microphone) .... 1.8 kg
Color .... Gray (PANTONE 426 C)
/ Black (PANTONE 419 C)

Ordering Information

HCS-8368NAD_G ...... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, gray)

HCS-8368NAD_B ...... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, black)

HCS-8368NAD-NP_G ... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, E-ink Nameplate can be connected, support PoE, gray)

HCS-8368NAD-NP_B ... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, E-ink Nameplate can be connected, support PoE, black)

HCS-8368AD
The G3 Paperless
Multimedia Congress Terminal

Features

- **Stylish and ergonomic design with an ultra-thin 6.5 mm screen**
- **Electronic document distribution for paperless meetings**
- **By adopting microphone-array technology, the sound pick-up performance is improved considerably**
- **Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting**
- **Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience**
- **Capacitive touch panel supporting multi-touch, improves operation experience**
- **8-megapixel camera with flashlight**
- **"Closed Loop - Daisy Chain" connection topology**
- **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **64 CHs × 2 interpretation (tabletop terminal) with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals**
- **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Excellent immunity to RF interferences from mobile phones**
- **Supporting "PnP" (plug and play)**
- **DC or PoE power supply**

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, memorandum editing, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to IEC 60914
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "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 in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Interactive conference control and management function:
  - ♦ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  - ♦ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - ♦ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - ♦ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - ♦ Speech text guidance: speed, font size and font colors configurable by user

- ◆ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
  - ◆ Image file reader
  - ◆ Memorandum: recording on electronic notebooks and saving the record of the meeting
  - ◆ 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 conference agenda display
  - ◆ Take photo
  - ◆ Delegate photo for attendance check and record facility on important conferences
- ■ Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- ■ Multiform video service:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ◆ Video display function:
    - ▪ The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - ▪ Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - ▪ Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- ■ Conference service:
  - ◆ Short messages reader and editor
  - ◆ Call service, call secretary
- ■ Based on TAIDEN originated MCA-STREAM digital audio technology
- ■ Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- ■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- ■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- ■ Automatic recovery facility, supporting "PnP" (plug and play)
- ■ Microphone array technology
- ■ Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- ■ Excellent immunity to RF interferences from mobile phones and comparable devices
- ■ Supports up to 64 (1+63) CHs simultaneous interpretation
- ■ 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- ■ Optional printed nameplate (HCS-8368AD)
- ■ E-ink Nameplate can be connected (HCS-8368AD-NP)

- ■ Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- ■ Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - · "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - · "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - · "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off icon to talk
  - ◆ Key press sign-in
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- ■ Multiform voting in combination with the corresponding software modules
- ■ Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- ■ Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- ■ Getting authorized from file server, the following meeting control functions will be provided:
  - ◆ Microphone control
  - ◆ Voting control
  - ◆ Desktop sharing control

Controls and Indicators

- ■ Graphic 14" LCD touch panel for interactive functions
- ■ Uni-directional electret condenser microphone with two–color illuminated ring
- ■ Channel select icons
- ■ Headphones volume up and down icons
- ■ Microphone On/Off icon

Interconnections

- ■ 2 × Ø 3.5 mm stereo headphone jack with volume control
- ■ SD card slot for extended storage and system upgrade
- ■ DC power supply:
  - ◆ Two Gigabit network ports for "daisy chain" connection
  - ◆ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- ■ PoE: the Gigabit network port nearby the microphone supports PoE

Technical Specifications

Electrical

Max. consumption .... 14 W

LCD

Type .... True color TFT LCD
Dimension .... 14 inches, 16:9
Resolution .... 1920×1080
Display color .... 2^{18}(18 bit)
Contrast 700:1

Headphone connection

Frequency response .... 30 Hz to 20 kHz
Earphone load impedance .... >16 Ohm
Earphone output .... 13 mW

Microphone

Transducer .... Electret-condenser
Polar pattern .... Uni-directional
Operating voltage .... 5 VDC
Sensitivity .... -46 dBV/Pa
Frequency response .... 50 Hz to 20 kHz
Input impedance .... 2 kOhm
Directivity 0°/180° .... > 20 dB (1 kHz)
Equivalent noise .... 20 dBA (SPL)
Maximum sound pressure level .... 125 dB (THD<3%)

Interface data

Connector .... 2 × Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting .... Tabletop
Dimensions (h × w × d) (w/o microphone) .... 210 × 349 × 122 mm
Weight (incl. microphone) .... 1.8 kg
Color .... Gray (PANTONE 426 C)
/ Black (PANTONE 419 C)

Ordering Information

HCS-8368AD_G .... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, gray)

HCS-8368AD_B .... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, black)

HCS-8368AD-NP_G .... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, E-ink Nameplate can be connected, support PoE, gray)

HCS-8368AD-NP_B .... The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, E-ink Nameplate can be connected, support PoE, black)

HCS-8368NAD/FM
The G3 Paperless
Multimedia Congress Terminal

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, memorandum editing, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Features

- **Stylish and ergonomic design with an ultra-thin 6.5 mm screen**
- **Electronic document distribution for paperless meetings**
- **By adopting microphone-array technology, the sound pick-up performance is improved considerably**
- **Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting**
- **Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience**
- **Capacitive touch panel supporting multi-touch, improves operation experience**
- **8-megapixel camera with flashlight**
- **"Closed Loop - Daisy Chain" connection topology**
- **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **64 CHs interpretation with volume control**
- **Transmitting up to 64 CHs high quality digital audio signals**
- **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Excellent immunity to RF interferences from mobile phones**
- **Supporting "PnP" (plug and play)**
- **DC power supply**
- **Internet access**

Functions

- Compliant to IEC 60914
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "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 in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Interactive conference control and management function:
  - Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  - Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - Speech text guidance: speed, font size and font colors configurable by user

- ♦ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
  - ♦ Image file reader
  - ♦ Memorandum: recording on electronic notebooks and saving the record of the meeting
  - ♦ 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 conference agenda display
  - ♦ Take photo
  - ♦ Delegate photo for attendance check and record facility on important conferences
  - ♦ Internet access: related information is available through the Internet or the LAN during the meeting
- ■ Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- ■ Multiform video service:
  - ♦ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ♦ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ♦ Video display function:
    - ▪ The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - ▪ Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - ▪ Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- ■ Conference service:
  - ♦ Short messages reader and editor
  - ♦ Call service, call secretary
- ■ Based on TAIDEN originated MCA-STREAM digital audio technology
- ■ Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- ■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- ■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- ■ Automatic recovery facility, supporting "PnP" (plug and play)
- ■ Microphone array technology
- ■ Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- ■ Excellent immunity to RF interferences from mobile phones and comparable devices
- ■ Supports up to 64 (1+63) CHs simultaneous interpretation
- ■ Flush-mounted and electric lifting
- ■ Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever

- ■ Facilities in stand-alone operation:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - · "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - · "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - · "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off icon to talk
  - ♦ Key press sign-in
  - ♦ Voting function (Yes/No/Abstain)
  - ♦ Simultaneous interpretation
- ■ Multiform voting in combination with the corresponding software modules
- ■ Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- ■ Set any delegate unit to be VIP unit
  - ♦ Up to 32 units can be set as VIP in one system via application software
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- ■ Getting authorized from file server, the following meeting control functions will be provided:
  - ♦ Microphone control
  - ♦ Voting control
  - ♦ Desktop sharing control

Controls and Indicators

- ■ Graphic 14" LCD touch panel for interactive functions
- ■ Uni-directional electret condenser microphone with two–color illuminated ring
- ■ Channel select icons
- ■ Headphones volume up and down icons
- ■ Microphone On/Off icon

Interconnections

- ■ Ø 3.5 mm stereo headphone jack with volume control
- ■ SD card slot for extended storage and system upgrade
- ■ Two Gigabit network ports for "daisy chain" connection
- ■ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)

Technical Specifications

Electrical

Max. consumption

17 W (electric lifting)

14 W (static)

LCD

Type .... True color TFT LCD
Dimension .... 14 inches, 16:9
Resolution .... 1920×1080
Display color .... 2^{18}(18 bit)
Contrast 700:1

Headphone connection

Frequency response .... 30 Hz to 20 kHz
Earphone load impedance .... >16 Ohm
Earphone output .... 13 mW

Microphone

Transducer .... Electret-condenser
Polar pattern .... Uni-directional
Operating voltage .... 5 VDC
Sensitivity .... -46 dBV/Pa
Frequency response .... 50 Hz to 20 kHz
Input impedance .... 2 kOhm
Directivity 0°/180° .... > 20 dB (1 kHz)
Equivalent noise .... 20 dBA (SPL)
Maximum sound pressure level .... 125 dB (THD<3%)

Interface data

Connector .... Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting .... Flush-mounting
Dimensions (h × w × d) (w/o microphone) .... 232 × 349 × 109 mm
Weight (incl. microphone) .... 2.3 kg
Color .... Gray (PANTONE 426 C)
/ Black (PANTONE 419 C)

Ordering Information

HCS-8368NAD/FM_G   The G3 Paperless Multimedia Congress Terminal (flush-mounting delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, electric lifting, gray)

HCS-8368NAD/FM_B   The G3 Paperless Multimedia Congress Terminal (flush-mounting delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, electric lifting, black)

HCS-8368AD/FM
The G3 Paperless
Multimedia Congress Terminal

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, memorandum editing, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.
Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Features

■ **Stylish and ergonomic design with an ultra-thin 6.5 mm screen**

■ **Electronic document distribution for paperless meetings**

■ **By adopting microphone-array technology, the sound pick-up performance is improved considerably**

■ **Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting**

■ **Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience**

■ **Capacitive touch panel supporting multi-touch, improves operation experience**

■ **8-megapixel camera with flashlight**

■ **"Closed Loop - Daisy Chain" connection topology**

■ **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**

■ **64 CHs interpretation with volume control**

■ **Transmitting up to 64 CHs high quality digital audio signals**

■ **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**

■ **Excellent immunity to RF interferences from mobile phones**

■ **Supporting "PnP" (plug and play)**

■ **DC power supply**

Functions

■ Compliant to IEC 60914

■ Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable

■ Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information

■ Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera

■ "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 in the system

■ Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz

■ Interactive conference control and management function:
  ♦ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  ♦ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  ♦ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.

■ Paperless conference functions:
  ♦ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  ♦ Speech text guidance: speed, font size and font colors configurable by user

- ♦ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
  - ♦ Image file reader
  - ♦ Memorandum: recording on electronic notebooks and saving the record of the meeting
  - ♦ 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 conference agenda display
  - ♦ Take photo
  - ♦ Delegate photo for attendance check and record facility on important conferences
- ■ Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- ■ Multiform video service:
  - ♦ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ♦ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ♦ Video display function:
    - ▪ The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - ▪ Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - ▪ Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- ■ Conference service:
  - ♦ Short messages reader and editor
  - ♦ Call service, call secretary
- ■ Based on TAIDEN originated MCA-STREAM digital audio technology
- ■ Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- ■ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- ■ Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- ■ Automatic recovery facility, supporting "PnP" (plug and play)
- ■ Microphone array technology
- ■ Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- ■ Excellent immunity to RF interferences from mobile phones and comparable devices
- ■ Supports up to 64 (1+63) CHs simultaneous interpretation
- ■ Flush-mounted and electric lifting
- ■ Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever

- ■ Facilities in stand-alone operation:
  - ♦ Set the number of delegates permitted to speak at the same time
  - ♦ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - · "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - · "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - · "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - · "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - · "PTT" mode, press microphone On/Off icon to talk
  - ♦ Key press sign-in
  - ♦ Voting function (Yes/No/Abstain)
  - ♦ Simultaneous interpretation
- ■ Multiform voting in combination with the corresponding software modules
- ■ Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- ■ Set any delegate unit to be VIP unit
  - ♦ Up to 32 units can be set as VIP in one system via application software
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- ■ Getting authorized from file server, the following meeting control functions will be provided:
  - ♦ Microphone control
  - ♦ Voting control
  - ♦ Desktop sharing control

Controls and Indicators

- ■ Graphic 14" LCD touch panel for interactive functions
- ■ Uni-directional electret condenser microphone with two–color illuminated ring
- ■ Channel select icons
- ■ Headphones volume up and down icons
- ■ Microphone On/Off icon

Interconnections

- ■ Ø 3.5 mm stereo headphone jack with volume control
- ■ SD card slot for extended storage and system upgrade
- ■ Two Gigabit network ports for "daisy chain" connection
- ■ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)

Technical Specifications

Electrical

Max. consumption

	17 W (electric lifting)
	14 W (static)

LCD

Type	True color TFT LCD
Dimension	14 inches, 16:9
Resolution	1920×1080
Display color	2^{18}(18 bit)
Contrast	700:1

Headphone connection

Frequency response	30 Hz to 20 kHz
Earphone load impedance	>16 Ohm
Earphone output	13 mW

Microphone

Transducer	Electret-condenser
Polar pattern	Uni-directional
Operating voltage	5 VDC
Sensitivity	-46 dBV/Pa
Frequency response	50 Hz to 20 kHz
Input impedance	2 kOhm
Directivity 0°/180°	> 20 dB (1 kHz)
Equivalent noise	20 dBA (SPL)
Maximum sound pressure level	125 dB (THD<3%)

Interface data

Connector	Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Flush-mounting
Dimensions (h × w × d) (w/o microphone)	232 × 349 × 109 mm
Weight (incl. microphone)	2.3 kg
Color	Gray (PANTONE 426 C) / Black (PANTONE 419 C)

Ordering Information

HCS-8368AD/FM_G   The G3 Paperless Multimedia Congress Terminal (flush-mounting delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, electric lifting, gray)

HCS-8368AD/FM_B   The G3 Paperless Multimedia Congress Terminal (flush-mounting delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, electric lifting, black)

HCS-8368SD
The G3 Paperless
Multimedia Congress Terminal

Features

- **Stylish and ergonomic design with an ultra-thin 6.5 mm screen**
- **Electronic document distribution for paperless meetings**
- **Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable**
- **Equipped with a 14" LCD touch panel (1920×1080)**
- **Capacitive touch panel supporting multi-touch, improves operation experience**
- **8-megapixel camera with flashlight, supports voting with photo**
- **"Closed Loop - Daisy Chain" connection topology**
- **Based on TAIDEN originated MCA-STREAM (Multi_Channel_ Audio STREAM) digital processing and transmitting technologies**
- **64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half**
- **Transmitting up to 64 CHs high quality digital audio signals**
- **Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz**
- **Excellent immunity to RF interferences from mobile phones**
- **Supporting "PnP" (plug and play)**
- **DC or PoE power supply**

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. speech, vote, simultaneous interpretation, sign-in, delegate photo for attendance check and record facility on important conferences, video display, short message, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

Functions

- Compliant to IEC 60914
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.6 Gigabit network cable
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "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 in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Video display
- Short messages reader
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Mini-microphone, with foam windshield
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Optional printed nameplate
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - Set the number of delegates permitted to speak at the same time

- ♦ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
  - ・ "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
  - ・ "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
  - ・ "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
  - ・ "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
  - ・ "PTT" mode, press microphone On/Off icon to talk
  - ♦ Key press sign-in
  - ♦ Voting function (Yes/No/Abstain)
  - ♦ Simultaneous interpretation
- ■ Multiform voting in combination with the corresponding software modules
- ■ Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- ■ Set any delegate unit to be VIP unit
  - ♦ Up to 32 units can be set as VIP in one system via application software
  - ♦ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- ■ Getting authorized from file server, voting control functions will be provided

Controls and Indicators

- ■ Graphic 14" LCD touch panel for interactive functions
- ■ Uni-directional electret condenser microphone with two–color illuminated ring
- ■ Channel select icons
- ■ Headphones volume up and down icons
- ■ Microphone On/Off icon

Interconnections

- ■ 2 × Ø 3.5 mm stereo headphone jack with volume control
- ■ SD card slot for extended storage and system upgrade
- ■ DC power supply:
  - ♦ Two Gigabit network ports for "daisy chain" connection
  - ♦ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- ■ PoE: the Gigabit network port nearby the microphone supports PoE

Technical Specifications

Electrical

Max. consumption	14 W

LCD

Type	True color TFT LCD
Dimension	14 inches, 16:9
Resolution	1920×1080
Display color	2^{18}(18 bit)
Contrast	700:1

Headphone connection

Frequency response	30 Hz to 20 kHz
Earphone load impedance	>16 Ohm
Earphone output	13 mW

Microphone

Transducer	Electret-condenser
Polar pattern	Uni-directional
Operating voltage	5 VDC
Sensitivity	-46 dBV/Pa
Frequency response	50 Hz to 20 kHz
Input impedance	2 kOhm
Directivity 0°/180°	> 20 dB (1 kHz)
Equivalent noise	20 dBA (SPL)
Maximum sound pressure level	125 dB (THD<3%)

Interface data

Connector	2 × Ø 3.5 mm stereo jack for headphone

Mechanical

Mounting	Tabletop
Dimensions (h × w × d) (w/o microphone)	210 × 349 × 122 mm
Weight (incl. microphone)	1.8 kg
Color	Gray (PANTONE 426 C) / Black (PANTONE 419 C)

Ordering Information

HCS-8368SD_G   The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, video display, printed nameplate, support PoE, gray)

HCS-8368SD_B   The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, video display, printed nameplate, support PoE, black)
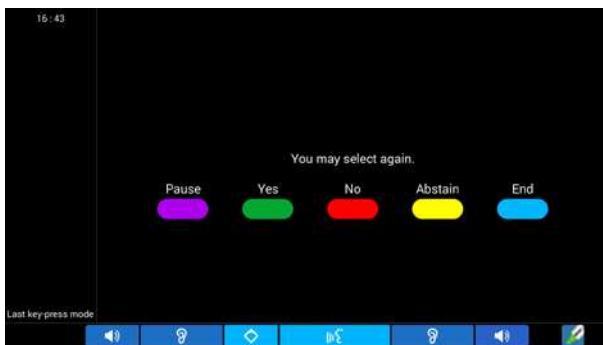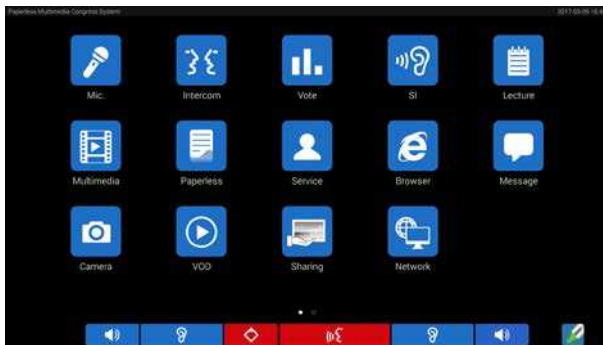
HCS-8368CSW Chairman Control Function Software Module

Functions

Features all delegate functions, additionally:

- 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 delegate microphones (except VIP units) according to the presetting
- Approval/denial of speaking request(s) without PC
- Launch of parliamentary voting (Yes/No/Abstain) session without PC

Ordering Information

HCS-8368CSW   Chairman Control Function Software Module