iMeeting X

Digital Conference Solution

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1. CONTROLLER

Model: iMeeting X-Con

1.1 FEATURES

1. 19-inch standard rack-mounted design, aluminum alloy panel with 4.3" touch screen, simple and intuitive interface operation.

2. Supports both wired and wireless 2.4G and 5G connections. Through the wireless, the high-speed transmission of audio without compression with delay less than 5.5ms. The wired unit and the wireless unit can be mixed for use at the same time.

3. Supports 128-bit AES encryption, WPA/WPA2 wireless security.

4. Controller built-in DSP digital audio processing module, built-in Adaptive Feedback Suppression (AFC), Environmental Noise Cancellation (AEC), digital equalizer (EQ), automatic gain control (AGC) function.

5. Support multiple conference modes: quantity limit, first-in first-out, speech application, voice control mode, etc.

The number of speakers is limited to 1/2/3/4/5/6, (wired mics support max 6pcs to work at the same time, wireless mics support max 2pcs to work at the same time) the number of speakers in free discussion mode is not limited, and all of them can be opened.

6. The audio sampling frequency is not less than 48KHz, and the frequency response range is not less than 20Hz-20KHz.

7. Built-in multi-channel internal communication and conference service functions, supporting the conference unit to send tea, pen and paper, waiters, and other demand notifications.

8. Built-in camera tracking function, supporting PELCO-D/P, SONY and other control protocols.

Support the connection of no less than 8 HD cameras for RS-232/RS-485 control, and also expand the HD video matrix; Connect the HD video decoding box to realize automatic switching of video signals with the HD matrix and have the function of camera linkage picture freezing.

9. With 8-in and 4-out video matrix, video signals can be directly accessed.

10. Support the built-in software to adjust, save and call the preset position on the touch screen of the conference controller.

11. With microphone management function, you can set start voltage, start delay, mute delay, microphone gain and other settings.

12. Built-in electronic voting function, with data management functions such as sign-in, voting, election, response, and scoring.

13. Support the expansion of simultaneous interpretation functions, which can be configured with simultaneous interpretation functions of 4/8/12/16/20/32/64 different languages.

14. Super anti-interference ability, no noise when the mobile phone calls; Effectively isolate mobile phone (2G/3G/4G/5G) and radio wave (RF), Bluetooth, WiFi and other signal interference.

15. Controller and computer can adopt TCP/IP connection mode, support remote control, remote diagnosis and upgrade program, and easily complete after-sales and technical support work.

16. With RCA and Canon audio input interfaces, external audio signals (such as background music, wireless microphone) can be input.

17. With multiple groups of audio channel output, it can be connected to the power amplifier to amplify and output the speaker's speech, and can also be connected to the recording system, teleconference system, etc.

1.2 TECHNICAL SPEC

Network interface	Connect PC computer to realize computer control.
RS-232 interface (PC)	Camera RS-232 control interface.
RS-232 interface (CCU)	Connect to the central control system.
Network interface	Connect to the expansion Controller.
Interpreter interface	It can be connected to a translation controller or a translator station.
Quad 6-core digital interface	It can provide DC24V power supply for wired unit connection interface and four-way signal base station.
Balance XLR output	Total output of balanced audio source.
Unbalanced RCA output	Two-channel unbalanced sound source outputs.
Unbalanced RCA Input	Two-channel unbalanced sound source inputs.
Balance XLR input	Balanced source input.
Video input	8-channel camera signal inputs.
Video output	4-channel video signal outputs.
Dimensions (W×D×H)	484×260×88mm
Weight	6.5kg

2. MICROPHONES

2.1 iMeeting X-Mic-DC/DD

Square Stem: Pure Discussion, without screen

iMeeting X-Mic-DC (Chairman Unit)   *iMeeting X-Mic-DD (Delegate Unit)*

2.1.1 FEATURES

1. Full digital conference technology, simple and strong anti-static desktop design, in line with ergonomics.

2. Adopt high-strength anti-scratch tempered glass surface, light touch keys, accurate positioning, rapid control, no mechanical keys, no wear.

3. Adopt the design of aluminum alloy integrated square microphone stem, and adopt the principle of sound interference, which has excellent super-directional performance.

4. Multi-functional conference speech unit integrating speech discussion, video tracking and conference service.

5. DSP digital processing and transmission technology is adopted to overcome the problem of long-distance transmission attenuation. The 6-core cable distance can reach 250 meters, and the network cable distance can reach 150 meters.

6. The chairman has a priority button, which can quickly close the delegate unit. The delegate unit can be set as a VIP unit. The VIP unit is not limited to speak and will not be opened and closed by other delegate units.

7. 24V power supply is provided by the conference controller, with low power consumption design, and 20 conference units can be connected in a single way.

8. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

9. The camera tracking function is available with the conference controller, which can be preset through the conference controller, control keyboard or PC software.

10. The system has first-in first-out, limited mode, speech application and other modes, and the number of speakers can be set from 1 to 6.

11. Live "hot plug" function is available between units, so that the safety of the system is more guaranteed.

12. Speech unit equipment adopts non-compressed audio transmission technology, 48K sampling rate, 20Hz-20KHz bandwidth, perfect sound quality; With low delay technology, the output from microphone sound to power amplifier is less than 10ms; Long-distance high-fidelity pickup, the effective pickup distance is greater than 50cm.

13. The system adopts the ID addressing mode. The conference management software or the conference controller defines the ID number of the unit to avoid ID number duplication.

2.1.2 TECHNICAL SPEC

Power consumption	1.8W
System capacity	15 sets of six-core unit in single channel, which can be expanded to 51,200 sets
Frequency response	20Hz~ 20KHz
Signal to Noise Ratio (SNR)	>90dB
Dynamic range	96dB
Channel separation	102dB
Total harmonic distortion	< 0.05%
Microphone type	Imported gold film pickup head
Microphone sensitivity	(-42dBV/Pa)
Operating voltage	24V DC±5％
Operating current	40mA ±5％
Connection mode	Junction box
Number of units on	1/2/3/4/5/6
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB (THD∠3%)
Mic stem L	200mm
Unit connection port	6-core DIN
Net weight	0.8kg
External dimensions	127 × 97 × 57mm (excluding the MIC stem)

2.2 iMeeting X-Mic-RC/RD

Gooseneck Round stem: Pure Discussion, without screen

iMeeting X-Mic-RC (Chairman Unit)   *iMeeting X-Mic-RD (Delegate Unit)*

2.2.1 FEATURES

1. Full digital conference technology, simple and desktop strong anti-static desktop function design, in line with ergonomics.

2. Adopt high-strength anti-scratch tempered glass surface, light touch keys, accurate positioning, rapid control, no mechanical keys, no wear.

3. Gooseneck condenser microphone stem, professional large capacitor core, extremely high sensitivity, and voice clarity, and with speaking ring red and green two-color indicator.

4. Multi-functional conference speech unit integrating speech discussion, video tracking and conference service.

5. DSP digital processing and transmission technology is adopted to overcome the problem of long-distance transmission attenuation. The six-core cable distance can reach 250 meters, and the network cable distance can reach 150 meters.

6. The chairman has a priority button, which can quickly close the delegate unit. The delegate unit can be set as a VIP unit. The VIP unit is not limited to speak and will not be opened and closed by other delegate units.

7. 24V power supply is provided by the conference controller, with low power consumption design, and 20 conference units can be connected in a single way.

8. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

9. The camera tracking function is available with the conference controller, which can be preset through the conference controller, control keyboard or PC software.

10. The system has first-in first-out, limited mode, speech application and other modes, and the number of speakers can be set from 1 to 6.

11. Designed with advanced electrostatic isolation technology to avoid static electricity even in dry environments and regions.

12. Live "hot plug" function is available between units, so that the safety of the system is more guaranteed.

13. Speech unit equipment adopts non-compressed audio transmission technology, 48K sampling rate, 20Hz-20KHz bandwidth, perfect sound quality; With low delay technology, the output from microphone sound to power amplifier is less than 10ms; Long-distance high-fidelity pickup, with effective pickup distance greater than 50cm.

14. The system adopts the ID addressing mode, and the conference management software or the conference controller defines the ID number of the unit to avoid ID number duplication.

2.2.2 TECHNICAL SPEC

Power consumption	1.8W
System capacity	15 sets of six-core unit in single channel, which can be expanded to 51200 sets
Frequency response	20Hz~20KHz
Signal to noise ratio (SNR)	>90dB
Dynamic range	96dB
Channel separation	102dB
Total harmonic distortion	< 0.05%
Microphone type	Imported gold film pickup head
Microphone sensitivity	(-42dBV/Pa)
Operating voltage	24V DC±5％
Operating current	40mA ±5％
Connection mode	Junction box
Number of units on	1/2/3/4/5/6
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB (THD∠3%)
Mic stem L	200mm
Unit connection port	6-core DIN
Net weight	0.8kg
External dimensions	127 × 97 × 57mm (excluding the MIC stem)

2.3 iMeeting X-Mic-VC/VD

Square Stem: With voting and screen

iMeeting X-Mic-VC (Chairman Unit)   *iMeeting X-Mic-VD (Delegate Unit)*

2.3.1 FEATURES

1. Full digital conference technology, simple and strong anti-static desktop function design, in line with ergonomics, very modern sense of science and technology.

2. With a 3.5-inch touch screen, it can display speech time, speech timing, perpetual calendar, conference call service and other functions.

3. Adopt light touch keys, accurate positioning, rapid control, no mechanical keys, no wear, unlimited life.

4. Adopt the design of aluminum alloy integrated square microphone stem, and adopt the principle of sound interference, which has excellent super-directional performance.

5. Multi-functional conference speech unit integrating speech discussion, video tracking, voting and conference service.

6. DSP digital processing and transmission technology is adopted to overcome the problem of long-distance transmission attenuation. The six-core cable distance can reach 250 meters, and the network cable distance can reach 150 meters.

7. The chairman has a priority button, which can quickly close the delegate unit. The delegate unit can be set as a VIP unit. The VIP unit is not limited to speak and will not be opened and closed by other delegate units.

8. 24V power supply is provided by the conference controller, with low power consumption design, and 20 conference units can be connected in a single way.

9. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

10. The camera tracking function is available with the conference controller, which can be preset through the conference controller, control keyboard or PC software.

11. The system has first-in first-out, limited mode, speech application and other modes, and the number of speakers can be set from 1 to 6.

12. Designed with advanced electrostatic isolation technology to avoid static electricity even in dry environments and regions.

13. Live "hot plug" function is available between units, so that the safety of the system is more guaranteed.

14. Mic unit equipment adopts non-compressed audio transmission technology, 48K sampling rate, 20Hz-20KHz bandwidth, perfect sound quality; With low delay technology, the output from microphone sound to power amplifier is less than 10ms; Long-distance high-fidelity pickup, with effective pickup distance greater than 50cm.

15. The system adopts the ID addressing mode, and the conference management software or the conference controller defines the ID number of the unit to avoid ID number duplication.
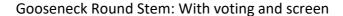
2.3.2 TECHNICAL SPEC

Power consumption	1.8W
System capacity	15 sets of six-core unit in single channel, which can be expanded to 51200 sets
Display screen	3.5-inch TFT contact display
Display menu	Chinese and English (customizable)
Frequency response	20Hz~20KHz
Signal to noise ratio (SNR)	>90dB
Dynamic range	96dB
Channel separation	102dB
Total harmonic distortion	< 0.05%
Microphone type	Imported gold film pickup head
Microphone sensitivity	(-42dBV/Pa)
Operating voltage	24V DC±5％
Operating current	40mA ±5％

Connection mode	Junction box
Number of units on	1/2/3/4/5/6
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB (THD∠3%)
Mic stem L	200mm
Unit connection port	6-core DIN
Net weight	0.8kg
External dimensions	127 × 97 × 57mm (excluding the MIC stem)

2.4 iMeeting X-Mic-VRC/VRD

Gooseneck Round Stem: With voting and screen

iMeeting X-Mic-VRC (Chairman Unit)   *iMeeting X-Mic-VRD (Delegate Unit)*

2.4.1 FEATURES

1. Full digital conference technology, simple and strong anti-static desktop function design, in line with ergonomics, very modern sense of science and technology.

2. With a 3.5-inch touch screen, it can display speech time, speech timing, perpetual calendar, conference call service and other functions.

3. Adopt light touch keys, accurate positioning, rapid control, no mechanical keys, no wear.

4. Gooseneck condenser microphone stem, professional large capacitor core, extremely high sensitivity and voice clarity, and with speaking ring red and green two-color indicator.

5. Multi-functional conference speech unit integrating speech discussion, video tracking, voting and conference service.

6. DSP digital processing and transmission technology is adopted to overcome the problem of long-distance transmission attenuation. The six-core cable distance can reach 250 meters, and the network cable distance can reach 150 meters.

7. The chairman has a priority button, which can quickly close the delegate unit. The delegate unit can be set as a VIP unit. The VIP unit is not limited to speak and will not be opened and closed by other delegate units.

8. 24V power supply is provided by the conference controller, with low power consumption design, and 20 conference units can be connected in a single way.

9. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

10. The camera tracking function is available with the conference controller, which can be preset through the conference controller, control keyboard or PC software.

11. The system has first-in first-out, limited mode, speech application and other modes, and the number of speakers can be set from 1 to 6.

12. Designed with advanced electrostatic isolation technology to avoid static electricity even in dry environments and regions.

13. Live "hot plug" function is available between units, so that the safety of the system is more guaranteed.

14. Speech unit equipment adopts non-compressed audio transmission technology, 48K sampling rate, 20Hz-20KHz bandwidth, perfect sound quality; With low delay technology, the output from microphone sound to power amplifier is less than 10ms; Long-distance high-fidelity pickup, with effective pickup distance greater than 50cm.

15. The system adopts the ID addressing mode, and the conference management software or the conference controller defines the ID number of the unit to avoid ID number duplication.

2.4.2 TECHNICAL SPEC

Power consumption	1.8W
System capacity	15 sets of six-core unit in single channel, which can be expanded to 51200 sets
Display screen	3.5-inch TFT contact display
Display menu	Chinese and English (customizable)
Frequency response	20Hz~20KHz
Signal to noise ratio (SNR)	>90dB
Dynamic range	96dB
Channel separation	102dB
Total harmonic distortion	< 0.05%
Microphone type	Imported gold film pickup head
Microphone sensitivity	(-42dBV/Pa)

Operating voltage	24V DC±5％
Operating current	40mA ±5％
Connection mode	Junction box
Number of units on	1/2/3/4/5/6
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB (THD∠3%)
Mic stem L	200mm
Unit connection port	6-core DIN
Net weight	0.8kg
External dimensions	127 × 97 × 57mm (excluding the MIC stem)

2.5 iMeeting X-Mic-VNC/VND

Square Stem: With Voting and Nameplate

iMeeting X-Mic-VNC (Chairman Unit)   iMeeting X-Mic-VND (Delegate Unit)

2.5.1 FEATURES

1. Desktop design, multi-functional conference unit integrating speech, video tracking, conference service, table card displays and touch screen.

2. Industrial 300MHz CPU, 512Mb memory, stable system, smooth use.

3. 4.3-inch TFT touch screen, simple and clear operation, friendly man-machine interface, simple and intuitive.

4. Support 8-inch high-brightness LCD electronic nameplate display, display participant information, display resolution of 1280 × 320, support single SD card renaming or computer background unified renaming.

5. With SD card recording and playback functions, support 128G flash memory, can record 2,000 hours of audio content.

6. Built-in conference service function, supporting the conference unit to send tea, pen and paper, waiters, and other demand notifications.

7. Equipped with 2m 6-core DIN cable with shield to effectively avoid and prevent electromagnetic interference of the line.

8. The system adopts the ID addressing mode, and the conference controller or conference management software can customize the ID number of the unit to avoid duplication of ID numbers.

9. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

10. Support the four working modes of quantity limit, first-in first-out, speech application and voice control start, and the number of speakers can be set from 1 to 6.

11. With the camera, the speaker can be automatically tracked, and the picture freezing function is supported.

12. Support three-key or five-key voting function, support key sign-in and supplementary sign-in functions, and dynamic display of data.

13. Adopt aluminum alloy integrated square microphone stem, double microphone stem and double microphone core design, and adopt sound interference principle, with excellent super-directional performance.

14. Support 48K audio sampling frequency, frequency response up to 40Hz-20KHz, close to CD sound quality effect.

15. Built-in high-pass filter function, easy to cut out the low-frequency components of the sound when needed.

16. Equipped with DSP digital audio processing chip, each unit can be independently adjusted for high and low bass.

17. With two 3.5 mm headphone ports, it can be used for conference monitoring and recording, and the volume is adjustable.

18. With one Micro USB data interface, the equipment can be upgraded and maintained without disassembly.

19. It has the function of restoring the factory settings, which can initialize the audio adjustment to prevent the sound disorder.

2.5.2 TECHNICAL SPEC

System capacity	Single channel 10 sets, expandable 51,200 sets
Display screen	4.3 "TFT touch screen, 8.8 " LCD display
Microphone type	Cardioid directivity electret
Frequency response	40Hz~20KHz
Signal-to-noise ratio (SNR)	>90dB
Dynamic range	96dB
Total harmonic distortion	< 0.05%
Channel separation	102dB
Microphone sensitivity	-37dB±2dB
Operating voltage	24V DC±5%
Operating current	100mA ±5%
Unit power consumption	3W
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB (THD<3%)
Size	152×98×62mm
Weight	1.15kg

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2.6 iMeeting X-Mic-VNRC/VNRD

Gooseneck Round Stem: With Voting and Nameplate

iMeeting X-Mic-VNRC (Chairman Unit)   iMeeting X-Mic-VNRD (Delegate Unit)

2.6.1 FEATURES

1. Desktop design, multi-functional conference unit integrating speech, video tracking, conference service, table card display and touch screen.

2. Industrial 300MHz CPU, 512Mb memory, stable system.

3. 4.3-inch TFT touch screen, simple and clear operation, friendly man-machine interface, simple and intuitive.

4. Support 8-inch high-brightness LCD electronic nameplate display, display participant information, display resolution of 1280 × 320, support single SD card renaming or computer background unified renaming.

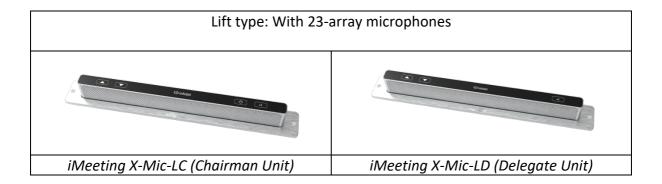5. With SD card recording and playback functions, support 128 G flash memory, can record 2K hours of audio content.

6. Built-in conference service function, supporting the conference unit to send tea, pen and paper, waiters and other demand notifications.

7. Equipped with 2m 6-core DIN cable with shield to effectively avoid and prevent electromagnetic interference of the line.

8. The system adopts the ID addressing mode, and the conference controller or conference management software can customize the ID number of the unit to avoid duplication of ID numbers.

9. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

10. Support the four working modes of quantity limit, first-in first-out, speech application and voice control start, and the number of speakers can be set from 1 to 6.

11. With the camera, the speaker can be automatically tracked, and the picture freezing function is supported.

12. Support three-key or five-key voting function, support key sign-in and supplementary sign-in functions, and dynamic display of data.

13. Electret super cardioid directional microphone with audio activation ensures pickup distance and sound quality up to 50cm.

14. Support 48K audio sampling frequency, frequency response up to 40Hz-20KHz, close to CD sound quality effect.

15. Built-in high-pass filter function, easy to cut out the low-frequency components of the sound when needed.

16. Equipped with DSP digital audio processing chip, each unit can be independently adjusted for high and low bass.

17. With two 3.5 mm headphone ports, it can be used for conference monitoring and recording, and the volume is adjustable.

18. With one Micro USB data interface, the equipment can be upgraded and maintained without disassembly.

19. It has the function of restoring the factory value, which can initialize the audio adjustment to prevent the sound disorder.

2.6.2 TECHNICAL SPEC

System capacity	Single channel 10 sets, expandable 51200 sets
Display screen	4.3 "TFT touch screen, 8.8 " LCD display
Microphone type	Cardioid directivity electret
Frequency response	40Hz~20KHz
Signal-to-noise ratio (SNR)	>90dB
Dynamic range	96dB
Total harmonic distortion	< 0.05%
Channel separation	102dB
Microphone sensitivity	-37dB±2dB
Operating voltage	24V DC±5%
Operating current	100mA ±5%
Unit power consumption	3W
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB (THD<3%)
Size	152×98×62mm
Weight	1.15kg

2.7 iMeeting X-Mic-VNC/VND

Lift type: With 23-array microphones	
iMeeting X-Mic-LC (Chairman Unit)	*iMeeting X-Mic-LD (Delegate Unit)*

2.7.1 FEATURES

1. Adopt full-digital conference technology, in line with IEC60914 international standard.

2. Simple and streamlined desktop design, participants can communicate better without obstruction, and provide better visual effects.

3. Array microphone touch buttons, built-in 23 large shock gold film array of microphones, microphone electric lift, with video tracking function.

4. Built-in digital circuit excitation chip, which is beneficial to ensure the unit voltage, so that all pickups can reach the best working condition.

5. Adopt 150° pickup angle, with a wider range of pickup, whether it is sitting or standing, the sound quality can be guaranteed.

6. Using touch switch buttons, precise positioning, rapid control, no mechanical buttons, no wear, unlimited life.

7. The bottom of the unit is equipped with two large-area thickened sponge pads, which can effectively alleviate the percussion sound of the desktop and avoid the transmission of non-human voices.

8. Establish a personal pickup channel and range, no matter it is a forum or a speech, the sound pressure level will not change.

9. Hidden adjustable gain knob, the best pickup distance can reach 80-100cm, and the placement of the unit is not limited.

10. The system supports a variety of connection methods such as one-line hand-in-hand connection, T-shaped head hand-in-hand connection and ring hand-in-hand connection.

11. Adopt DSP/DDOV digital processing and transmission technology to overcome the problem of long-distance transmission attenuation, and the line distance can reach 150 meters.

12. The system adopts 6-core DIN shielded cable or CAT6 network cable, which can effectively avoid and prevent the electromagnetic interference of the line and ensure that the data will never be lost.

13. The unit is a passive device, and the conference host provides 24V power supply, low power consumption design, and a single channel can connect 25 conference units.

14. Adopt digital strong anti-interference technology to ensure that the equipment in the venue is not interfered by mobile phones, Bluetooth, radio, WiFi and other signals.

15. With the camera, the camera can be automatically tracked after being preset by the conference host, control keyboard or computer PC software.

16. The system has a first-in-first-out working mode and supports camera tracking function, and the number of speakers can be set from 1 to 6.

17. Adopt automatic lifting design, aluminum alloy body, beautiful and delicate through anodizing and coloring process.

2.7.2 TECHNICAL SPEC

Microphone Type	Array
Frequency response	40HZ ~ 20KHZ
Signal-to-noise ratio (SNR)	> 90dB
Dynamic range	96dB
Total Harmonic Distortion	﹤0.05%
Microphone Sensitivity	-42dB±2
Working voltage	24V DC±5%
Quiescent current	21mA±5%
Dynamic current	43mA±5%
Number of units open	1/2/3/4/5/6 or all
Equivalent noise	20dBA (SPL)
Maximum sound pressure level	125dB(THD ﹤3%)
Number of chairpersons	The system can access 100 chairperson units at the same time
Dimensions	330(L)×38(W)×224(H)mm
Power consumption	﹤11W
Installation method	Embedded
Color	Black (can be customized)
Net weight	2.4Kg

3.0 ACCESSORIES

3.1 EXTENSION BOX

Model: iMeeting X-EXT

Cable extension box

3.1.1 FEATURES

■ Two conference units can be connected to one junction box.
■ The product adopts 6-core wire connection, with 1-in and 3-out interfaces.
■ Product size (L × W × H): 80mm × 50mm × 32mm
■ Weight: 0.19 kg

3.2 EXTENSION CABLE

Model: iMeeting X-S10

3.2.1 FEATURES

■ 6-core dedicated extension cord
■ 10 meters length

3.2.2 DIAGRAM