CeeLab



ARROW Arrow 300

Stunning video and audio brought to you by the "ARROW" series of visual communication products that encompass the three-pronged concept of "Reality," "Intelligence," and "Usability." "ARROW" is the identity symbolising the Ceelab vision for the workplace of the future, connecting people, places, and information with reality that has never before been achieved. "ARROW" lets you share, understand, and experience as if you are actually there, when in fact, you are miles away. It allows you to quickly grasp a situation to make better business decisions.

Reality

- Stunning 1080i HD Video
- Superb Sound (MPEG-4 AAC stereo)

Intelligence

- BrightFace Technology (ArrowC300)
- Multi-point Connection Embedded MCU
- Enhanced Intelligent QoS Function

Isahility

- Backward Compatibility With SD Systems
- Video Annotation Function
- "One-touch Dialing" With RF Remote Commander Unit
- Single Cable Connection (HDML cable)

Real audiovisual communication over networks – this is business communication of the future, this is business communication brought to you today, this is "ARROW."

Change Your Daily Business Communication Style With the Powerful and Compact Arrow 300 Visual Communication System

Ceelab, a leader in the AV industry, introduces a new form of high-definition (HD) visual communication with the Arrow 300. Powerful, affordable, and compact – the Arrow 300 achieves 1080i HD video quality, making your daily business communication style more effective, productive, and comfortable.

With approximately four times more detail than standard-definition (SD) images, the exceptional HD video quality of the Arrow 300 takes your visual communications to the next level. The HD video quality provided by Ceelab not only enhances your daily videoconferences with life-like images, but also lets you see details that were not before visible with SD systems – which is especially useful for applications such as product design conferences. What's more, the HD camera of the Arrow 300 adopts the Ceelab developed BrightFace™ technology, which produces clear images even when used in rooms with less-than-ideal lighting conditions. The unit also features clear and natural-sounding stereo audio, allowing you to hold videoconferences with "real communication" as if you were talking in the same room.

To make videoconferencing a powerful mainstream business communication tool, the Arrow 300 has been designed to be extremely user-friendly. With an intuitive Graphical User Interface (GUI) that employs a simple layer structure and translucent cascading menus, the system makes videoconferencing easier than ever before. Moreover, the Arrow 300 offers a number of other features for user convenience, such as one-touch dialing for starting a videoconference, an HDMI interface allowing a single cable connection between the codec and display, an embedded MCU for multi-point connections, ¹¹ and a new RF Remote Commander™ unit that can be operated without having to be pointed directly towards the system. What's more, the Arrow 300 is backward compatible with SD videoconferencing systems, allowing seamless integration with existing SD systems your business may be running.

You can enhance the quality of your videoconferences with effective data sharing (video and presentation data from a PC) because the Arrow 300 complies with the ITU-T H.239 standard." Presentation data can be transferred at a frame rate as high as 30fps, which makes it possible to present animations during a videoconference. Moreover, by using the video annotation function" of the Arrow 300, you can clearly point out specific parts of an image by writing on a tablet. With these outstanding data-sharing tools, you can now minimize misunderstandings during your videoconference.

With a stylish design suitable for a variety of meeting rooms, 1080i HD video quality, and life-like sound, the powerful, affordable, and compact Arrow 300 is ideal for videoconferencing at all levels of business - as well as for distance learning. HD videoconferencing is now available for your daily communication needs.



^{*1} Requires optional software.

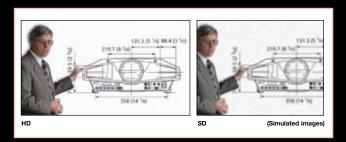
^{*2} Requires an optional third-party pen tablet.

Features

Reality

Stunning 1080i High-definition (HD) Images

The Arrow 300 adopts the H.264 video codec to bring you smooth and natural high-definition (HD) images at a resolution of 1920 x 1080 pixels. Stunning HD video enhances your videoconferencing with life-like images. What's more, the unit can be operated at 720p, 60 frames per second, to produce natural video for effective communication.

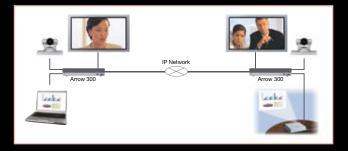


Superb Audio Quality

The Arrow 300 produces clear and natural stereo sound, using the MPEG-4 AAC compression format. And because the unit has a built-in stereo echo canceller, which eliminates the annoying echo often heard with other systems, communication sounds far more natural.

ITU-T H.239 Support (video and presentation data) – Presentation Data Transferred at 30fps⁻³

With support for the ITU-T H.239 standard, the Arrow 300 can send both video and presentation data displayed on your PC to videoconferencing counterparts for more effective communication. Presentation data can be transferred at frame rates as high as 30fps, providing natural and smooth presentations even when using animation effects or showing videos from your PC. This presentation data can be shown from either a projector or a sub display using the RGB output.



Intelligence

BrightFace Technology (ArrowC300)

The Arrow 300 has a dedicated HD camera (ArrowC300) that adopts the Ceelab newly developed BrightFace technology. This technology optimises the brightness of each pixel to highlight shadows, while subduing areas of the image that are too bright, allowing operation in less-than-ideal lighting conditions. BrightFace technology can provide clear images even in dimly lit rooms, for example when using a projector, or in rooms with poor backlighting conditions.



With BrightFace Function

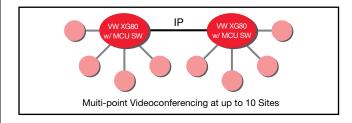


Without BrightFace Function

(Simulated images)

Multi-point Connection - Embedded MCU*4

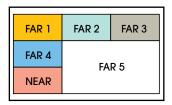
Using optional MCU software, the Arrow 300 can be configured to communicate with up to five remote videoconferencing sites (six sites total) simultaneously, using either an IP (H.323 or SIP protocol) or ISDN (H.320 protocol) connection. It can also support videoconferences in which the connections are a combination of IP and ISDN by using a bridging function. Moreover, two Arrow 300 units – each installed with the optional MCU software – can be cascaded with an IP connection to support a maximum of ten sites.



Features

Continuous-presence Mode With Voice Activated Switching*4

The Arrow 300 supports both four-screen and sixscreen continuous-presence modes in 720p HD format, which provides clear images even on the smaller sub screens. When using voice activated switching in continuous-presence mode, the far-end site that is actively speaking is displayed on the largest of the six sub screens. In addition, voice activated switching is available when the unit is in full-screen mode. Plus, of course, fixed-site videoconferencing is available as well.



| NEAR | FAR 3 | |
|-------|-------|--|
| FAR 2 | | |
| | | |

If FAR 5 is talking

If FAR 2 is talking

Six-site Continuous Presence Mode With Voice Activated Switching

Stable and Secure Videoconferencing

Enhanced Intelligent QoS™ (Quality of Service) Functions to Achieve Stable Transmission

To handle the transmission of large amounts of HD video data, while maintaining high-quality and stable communication over an IP network, the Arrow 300 incorporates the following advanced QoS functions:

- Adaptive FEC (Forward Error Correction)
- Real-time ARQ[™] (Automatic Repeat reQuest)
- ARC (Adaptive Rate Control)

These functions work "harmoniously" for fast and consistent data throughput during the transmission of video signals by adapting to any changes in the network condition and correcting any packet loss. For more information on the intelligent QoS mechanism, refer to the "Technical Note" insert.







With Enhanced Intelligent QoS (Simulated images)

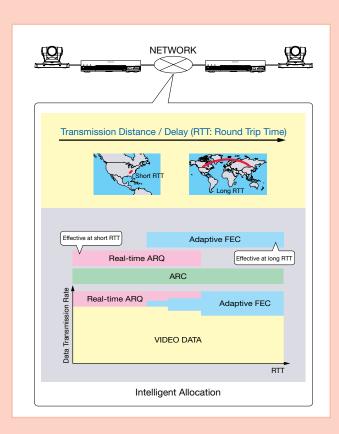
Without Enhanced Intelligent QoS

Advanced Encryption Standard (AES) for High Security

Secure videoconferencing over a network is possible because the Arrow 300 supports 128-bit AES encryption. The system's encryption complies with the ITU-T H.233/H.234/H.235 standards, which allows encrypted communication with other compliant systems. When the encryption mode is active, video, audio, and presentation data are encrypted for the duration of the videoconference.

Technical Note - Intelligent QoS Functions

Ceelab has implemented a number of QoS functions in all of its currently available visual communication systems. However, conventional QoS methods used with SD systems are inadequate when handling large amounts of data associated with high-definition (HD) video. Therefore, Ceelab has designed and implemented enhanced intelligent QoS functions in its HD visual communication systems. Two major improvements have been made on the previous methods. First, the system intelligently allocates the amount of ARQ, FEC, and video data based on the bandwidth available, which is determined by the ARC function. Second, FEC is performed with larger FEC blocks and the number of parity packets are adjusted as required. This combination is both efficient and effective for transmitting large amounts of data over IP networks to help maintain high picture quality.



Usability

Video Annotation Function*5

For effective communication, the Arrow 300 video annotation function is available. Conference participants can clearly point out specific parts of shared data, including live images and presentation data, by simply writing on a tablet. This function can help you minimise time and effort in your communications, and allow you to deliver a clear and strong message.



(Simulated images)

"One-touch Dialing" With Newly Designed RF Remote Commander Unit (ArrowRF1)

For user convenience, the Arrow 300 adopts a newly designed RF Remote Commander unit (ArrowRF1) that does not have to be pointed directly towards the system. What's more, the Arrow 300 has a convenient one-touch dialing feature, which allows you to easily connect to any of your registered contacts by just pushing a function button on the RF Remote Commander unit (ArrowRF1) that corresponds to a thumbnail image on the GUI. Up to four contacts for one-touch dialing can be shown on the "home menu" from a maximum of 1000 registered contacts.



(Simulated images)

Multiple Display Layout

The Arrow 300 has multiple display layouts such as Full Screen, Picture-in-Picture, Picture-and-Picture, and a Side-by-Side split screen. Any of these flexible display patterns can be selected so that both videoconferencing images and presentation data can be displayed in a manner that is effective and pleasing to the eye.

Simple Setup and Easy Operation Intuitive GUI – Simple Layer Structure/Translucent Cascading Menus

The Arrow 300 was thoughtfully designed with an intuitive GUI, utilising translucent cascading menus. The simple layer structure and easy functionality allow you to operate the videoconferencing system, including the camera, much easier than ever before.



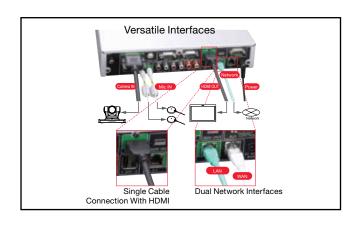
(Simulated images)

Single Cable Connection With HDMI

With the supplied HDMI cable, the Arrow 300 can be connected to an HDMI-equipped display. This single cable connection transmits both audio and video, allowing the codec and display to be neatly and quickly wired.

Dual Network Interfaces – Easily Switch Between I AN and WAN Connections⁴

For ease of use in office environments, the Arrow 300 is equipped with dual network interfaces, one for a LAN and the other for a WAN connection. This can save you time if you need to use the system both within an intranet environment and over the Internet. What's more multi-point connections can be made between LAN and WAN environments.



Features

Backward Compatibility With SD Systems

Since the Arrow 300 is backward compatible with legacy SD systems, you can seamlessly integrate the system to your existing standard-definition videoconferencing environment. This enables you to migrate from SD to HD at your own pace, with minimal upfront investment.

Compact and Stylish Design Suitable for a Variety of Meeting Rooms

With its compact and stylish design, the Arrow 300 fits neatly into boardrooms, medium- and small-sized meeting rooms, and even classrooms. And because the compact and powerful HD videoconferencing system is incredibly light in weight at approximately 2.2 kg (4 lb 14 oz), system integrators will find it easy to install.

Codec Dimensions (W x H x D):

Approximately 282 x 56 (including rubber feet) x 244 mm (11 1/8 x 2 1/4 x 9 5/8 inches) excluding projections Codec Mass: Approximately 2.2 kg (4 lb 14 oz)

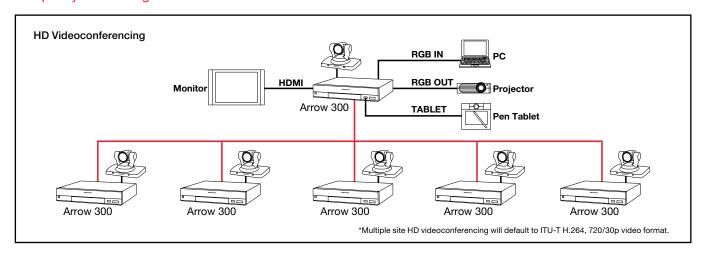
Other Features

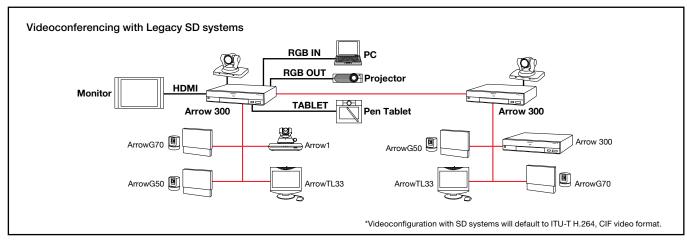
- Memory Stick[™] recording video/presentation data (including annotations) and audio can be recorded for later review⁶
- Presentation data can be sent as a single stream by selecting the RGB input.
- Built-in streaming function for multicasting to large audiences^{*6}
- Support for IPv6*4
- Support for H. 460 Firewall Traversal*4
- Up to 100 camera preset positions can be stored, each with a thumbnail image⁴ for easy recall.
- *3 Requires optional software. These functions are available except when using the 1080i or 720/60p video formats.
- *4 These functions are available with software version 2.0.
- *5 Requires optional third-party pen tablet. This function is available except when using the 1080i format.
- *6 These functions are available except when using the 1080i format.

Videoconferencing for Our Environment

You can help reduce CO² emissions and support our environment by using videoconferences in lieu of business travel. Ceelab HD visual communication systems can make you feel as if you are communicating in the same room. Stay in touch, travel less, and save our earth. Ceelab has an answer.

Sample System Configurations





Optional Accessories



ArrowC300 1/3-Type CMOS HD Camera (ArrowC300 is supplied with the Arrow 300)



EVI-HD1 1/3-Type CMOS HD Camera



BRC-H700 1/3-Type 3CCD HD Camera



BRC-Z700 1/4-Type 3CMOS HD Camera



ArrowA1
Omnidirectional Microphone
(Two ArrowA1 mics are
supplied with the Arrow 300)



ArrowA3
Unidirectional Microphone



ArrowA7P4
Echo Cancelling Microphone (4 units per package)



ArrowMCG300 HD MCU Software ArrowDSG300 HD Data Solution Software (for H.239 video and

presentation data)

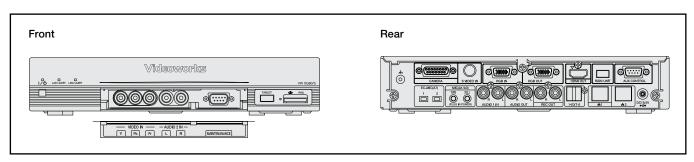


Arrow768
ISDN I/F Box 768Kbps

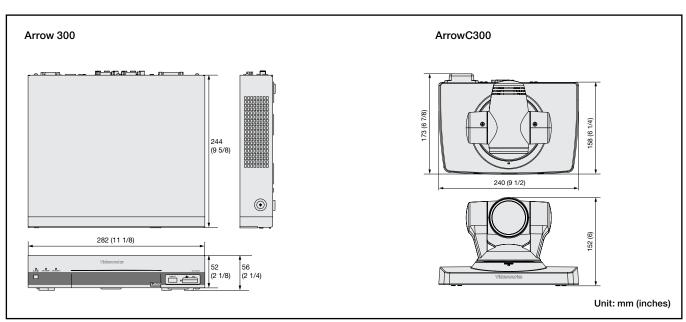


Arrow384
ISDN I/F Box 384Kbps

Connector Panels



Dimensions



Specifications

HD Codec Unit

| Arrow 300 (software Communication Protocol | |
|--|--|
| 22 | H.320, H.323, IETF SIP |
| Video | |
| Compression standard | H.261, H.263, H.263+, H.263++, H.264, MPEG-4 Video (SIP only) |
| Resolution | 4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576) |
| | 16:9 wCIF/w288p (512 x 288), w432p (768 x 432), |
| | w4CIF (1024 x 576), 720p (1280 x 720), 1080i (1920 x 1080) |
| Maximum frame rate | H.261 QCIF 30fps, CIF 30fp |
| | |
| | H.263 QCIF 30fps, CIF 30fps, 4CIF 10fps |
| | H.264 QCIF 30fps, CIF 30fps, 4CIF 30fps, wCIF 30fps, |
| 5. | w432p 30fps, w4CIF 30fps, 720p 60fps, 1080i 60fps |
| Bit rate | IP 64 kb/s to 10 Mb/s |
| | ISDN 56 kb/s to 768 kb/s (with optional PCSA-B768S) |
| | 56 kb/s to 384 kb/s (with optional PCSA-B384S) |
| Audio | |
| Bandwidth and coding | MPEG-4 AAC-LC Stereo: 22 kHz at 128kb/s, 192 kb/s - IP Only |
| | MPEG-4 AAC-LC Mono : 14 kHz at 48 kb/s, 64 kb/s, 96 kb/s MPEG-4 AAC-LC Mono : 22 kHz at 64 kb/s, 96 kb/s - IP only |
| | G.711: 3.4 kHz at 56 kb/s, 64 kb/s |
| | G.722: 7.0 kHz at 48 kb/s, 56 kb/s, 64 kb/s |
| | G.728: 3.4 kHz at 16 kb/s |
| Echo cancellation | Stereo echo-canceling supported |
| | Noise reduction included |
| | Automatic gain control included |
| Screen Layout | Full course Distance in Distan |
| | Full screen, Picture-in-Picture, Picture-and-Picture, Side-by-Side split screen |
| TU-T Standards (evolu | udes audio/video standards) |
| . O I Otandardo (CACII | H.221, BONDING, H.225.0, H.231, H.241, H.242, H.243, |
| | H.245, H.350, H.460.18, H.460.19 |
| Other Standards | |
| | RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, |
| | RFC3984, RFC4537, RFC4587, RFC4629, RFC4856 |
| Network Protocol | |
| | TCP/IP, UDP/IP, RTP/RTCP, DHCP, DNS, SNMP, TELNET, SSH, HTTP, NTP, PPPoE, UPnP |
| Multipoint Capability | 33H, HTTF, NTF, FFFOE, OFTIF |
| With Capability | Internal MCU Up to 6 sites (H.320/H.323/SIP) with optional softwar |
| | ArrowMCG300 |
| | Internal MCU Up to 10 sites (H.320/H.323/SIP) with optional |
| | |
| | software ArrowMCG300 Using |
| Data Sharing | software ArrowMCG300 Using Cascaded Connection |
| Data Sharing | Cascaded Connection |
| | |
| Data Sharing Lip Synchronisation | Cascaded Connection |
| | Cascaded Connection H.239 (video and presentation data)* |
| Lip Synchronisation | Cascaded Connection H.239 (video and presentation data)* |
| Lip Synchronisation | Cascaded Connection H.239 (video and presentation data)* ON/OFF |
| Lip Synchronisation Mic Off Function Encryption Protocols | Cascaded Connection H.239 (video and presentation data)* ON/OFF |
| Lip Synchronisation Mic Off Function | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features intelligent QoS Quality of Service) Others Network | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/Diffserve, UDP Shaping, TCP/UDP Port Setting, |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features ntelligent QoS (quality of Service) Others Network Features | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Quality of Service) Camera Control | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/Diffserve, UDP Shaping, TCP/UDP Port Setting, |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/Diffserve, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/Diffserve, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz recovered (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Outlers Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1, |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (ArrowAr) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Output Audio Output Control Memory Stick | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialling, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz EC-Mic Input x (MiC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 REC Output (RCA pin, stereo) x 1 RES-232C Memory Stick Slot x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Audio Output Audio Output Control Memory Stick Tablet Interface | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (ArowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Input Control Memory Stick Tablet Interface Maintenance Interface Maintenance Interface | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Output Audio Output Control Memory Stick Tablet Interface Waintenance Interface Network Wetwork General | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialling, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz audio Input (MiC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Audio Output Audio Output Audio Output Memory Stick Tablet Interface Maintenance Interface Maintenance Interface Maintenance Interface General Operating Temperature | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Feat Find Camera Control Interface Video Input Video Output Audio Input Audio Output Audio Output Audio Interface Memory Stick Tablet Interface Maintenance Interface Network General Operating Temperature Operating Temperature Operating Temperature | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF N/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (Arowa/7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS (Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Network General Operating Temperature Operating Temperature Operating Temperature | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Maintenance Interface Network General Operating Temperature Operating Humidity Storage Temperature Storage Temperature Storage Temperature Storage Temperature Storage Temperature | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialling, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz EC-Mic Input x (PicA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Audio Output Audio Output Audio Output Control Memory Stick Tablet Interface Maintenance Interface Network General Operating Temperature Operating Temperature Storage Temperature Storage Temperature Storage Temperature Storage Humidity Power Requirements | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Sereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz EC-Mic Input x 2 (Sereo x 1/mono x 2, plug-in power) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T7100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Feat Find Camera Control Interface Video Input Video Output Audio Output Audio Output Audio Output Control Memory Stick Tablet Interface Maintenance Interface Network General Operating Temperature Operating Humidity Storage Temperature Storage Humidity Power Requirements Power Consumption | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (krowAr) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) -20 to 80% (non condensing) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Output Control Memory Stick Tablet Interface Network General Operating Temperature Operating Humidity Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Sereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz EC-Mic Input x 2 (Sereo x 1/mono x 2, plug-in power) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T7100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Maintenance Interface Memeral Operating Temperature Operating Humidity Power Requirements Power Consumption Power Consumption (stand-by) | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 80°C (-4 to 140°F) 20 to 80°C (-4 to 140°F) 20 to 80°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) 40 W (codec only)/90 W (with ArrowC300, ArrowA7P4, Arrow768) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Output Control Memory Stick Tablet Interface Network General Operating Temperature Operating Humidity Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF N/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, Line Output (RCA pin, stereo) up to 14 kHz 2 audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) 40 W (codec only)/90 W (with ArrowC300, ArrowA7P4, Arrow768) 282 x 56 (including rubber feet) x 244 mm |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Feat End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Network General Operating Temperature Operating Humidity Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption Stand-by) Dimensions (W x H x D) | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) 40 W (codec only)/90 W (with ArrowC300, ArrowA7P4, Arrow768) 282 x 56 (including rubber feet) x 244 mm (11 1/8 x 2 1/4 x 9 5/8 inches), excl. projections |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Maintenance Interface Memory Stick Tablet Interface Maintenance Interface Moreorating Temperature Operating Temperature Storage Temperature Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption Stand-by) Dimensions (W x H x D) Mass | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF N/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, Line Output (RCA pin, stereo) up to 14 kHz 2 audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) 40 W (codec only)/90 W (with ArrowC300, ArrowA7P4, Arrow768) 282 x 56 (including rubber feet) x 244 mm |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Feat End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Network General Operating Temperature Operating Humidity Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption Stand-by) Dimensions (W x H x D) | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 10BASE-T7100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) 40 W (codec only)/15 W (with ArrowC300, ArrowA7P4, Arrow768) 10 W (codec only)/15 W (with ArrowC300, ArrowA7P4, Arrow768) 282 x 56 (including rubber feet) x 244 mm (11 1/8 x 2 1/4 x 9 5/8 inches), excl. projections Approx. 2.2 kg (4 lb 14 oz) |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Maintenance Interface Memory Stick Tablet Interface Maintenance Interface Moreorating Temperature Operating Temperature Storage Temperature Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption Stand-by) Dimensions (W x H x D) Mass | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (stereo x 1/mono x 2, plug-in power) up to 14 kHz Ec-Mic Input x 2 (karowa/) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 RS-232C x 1 10BASE-T/100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) -20 t |
| Lip Synchronisation Mic Off Function Encryption Protocols Network Features Intelligent QoS Quality of Service) Others Network Features Camera Control Far End Camera Control Interface Video Input Video Output Audio Input Audio Output Control Memory Stick Tablet Interface Maintenance Interface Maintenance Interface Memory Stick Tablet Interface Maintenance Interface Moreorating Temperature Operating Temperature Storage Temperature Storage Temperature Storage Humidity Power Requirements Power Consumption Power Consumption Stand-by) Dimensions (W x H x D) Mass | Cascaded Connection H.239 (video and presentation data)* ON/OFF ON/OFF H.233, H.234, H.235 ver.3 Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control) NAT, IP Precedence/DiffServe, UDP Shaping, TCP/UDP Port Setting, Auto Gatekeeper Discovery, Packet Reordering, URI Dialing, IPv6 H.281 AUX Video Input (S-Video x 1, analog component Y/Pb/Pr x 1, RGB x HDMI (video, audio) x 1, RGB x 1 Mic Input x 2 (Stereo x 1/mono x 2, plug-in power) up to 14 kHz EC-Mic Input x 2 (ArrowA7) up to 14 kHz Audio Input (MIC/AUX) x 2 (RCA pin, stereo) up to 22 kHz (AUX) HDMI (video, audio) x 1, Line Output (RCA pin, stereo) x 1, REC Output (RCA pin, stereo) x 1 RS-232C Memory Stick Slot x 1 Tablet Interface x 1 10BASE-T7100BASE-TX x 2, ISDN Unit Interface x 1 5 to 35°C (41 to 95°F) 20 to 80% (non condensing) -20 to 60°C (-4 to 140°F) 20 to 80% (non condensing) DC 19.5 V (AC Adapter : AC 100 to 240 V, 50/60 Hz) 40 W (codec only)/15 W (with ArrowC300, ArrowA7P4, Arrow768) 10 W (codec only)/15 W (with ArrowC300, ArrowA7P4, Arrow768) 282 x 56 (including rubber feet) x 244 mm (11 1/8 x 2 1/4 x 9 5/8 inches), excl. projections Approx. 2.2 kg (4 lb 14 oz) |

HD Camera Unit

| ArrowC300 | | | | |
|------------------------|---|--|--|--|
| Image Device | 1/3-type CMOS | | | |
| Effective Picture | Approx. 2 Megapixels (16:9) | | | |
| Elements | | | | |
| Focal Length | 3.4 to 33.9mm (F1.8 to F2.1) | | | |
| Focus | Auto/Manual | | | |
| Horizontal Image Angle | Approx. 8°(tele) to 70°(wide) | | | |
| Zoom Ratio | x 10 optical zoom | | | |
| | (x 40 with digital zoom) | | | |
| Pan/Tilt Angle | -100° to +100°(Pan), -25° to + 25° (Tilt) | | | |
| S/N | More than 50 dB | | | |
| GAIN | AUTO | | | |
| Control Out | VISCA OUT RS-232C for 2nd camera control | | | |
| Position Preset | 100 positions | | | |
| Operating Temperature | 5 to 35°C (41to 95°F) | | | |
| Operating Humidity | 20 to 80% (non condensing) | | | |
| Storage Temperature | -20 to 60°C (-4 to 140°F) | | | |
| Storage Humidity | 20 to 80% (non condensing) | | | |
| Power Requirements | DC 19.5V (supplied via the codec) | | | |
| Dimensions (W x H x D) | 240 x 152 (including rubber feet) x 158mm | | | |
| | (9 1/2 x 6 x 6 1/4 inches), excl. projections | | | |
| Mass | Approx. 2 kg (4 lb 3 oz) | | | |
| Others | BrightFace function, Noise reduction, | | | |
| | Backlight compensation, | | | |
| | Auto white balance | | | |
| Supplied Accessories | Camera cable (3m), | | | |
| | Hook-and-loop pads x 2, | | | |
| | Operating instructions, Warranty booklet | | | |

^{*} PC images up to SXGA resolution is supported. It requires the optional HD data solution software PCSA-DSG80 to send video and presentation data simultaneously.

Package Configuration

| | Arrow 300 | Arrow 300 S | |
|---|-----------|-------------|--|
| HD Codec Unit (Arrow 300 S) | ✓ | ✓ | |
| HD Camera Unit (ArrowC300) | ✓ | _ | |
| Omnidirectioonal Microphone (ArrowA1 x 2) | ~ | _ | |

| Local Contact : | | |
|-----------------|--|--|
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