

INVICT STATION C12W

Meeting Management System



The C12W console is a conference unit designed to handle all sized meeting spaces. Controls devices including wired or wireless microphones, PTZ camera and speakers or amplification system.

Its web interface allows for the control of all aspects of the meeting space, such as session creation, request of biometric data, meeting minute creation, signature request on microphones and execution of previously scheduled sessions. The indexed audio and video are recorded internally in the C12W console, for later synchronization with the Central Invict System (ICS).

The C12W also allows the visualization of recorded sessions and establish videoconferences with other Invict rooms, mobile clients or web clients.

- Embedded room control software
 - Meeting participant management
 - Biometric identification of meeting participants
 - Workflow for session creation
 - Conference mode control
 - Incorporation of remote participants by native videoconference
 - Audio and video recording during sessions
 - Meeting minute creation
 - Digital signature of meeting minutes
 - Transcription
 - Automatic generation of indexes for search by participant
 - Incorporation of keywords for search
 - Incorporation of custom notes and bookmarks
 - File attachment capability
 - Search and display of video and documents, generated and attached
 - Automatic synchronization with Invict Central System (ICS)
 - Microphone configuration and control
- Online and Offline Operation
- Wireless operation in 2.4, 5.2 and 5.8 GHz bands
- Automatic selection of best channel in band to work
- PTZ camera direct control
- Data encryption

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Technical Specifications

General

Console Software	Invict Console Control
Operating System of Console	Linux 64 bit
Meeting Room Software (Requires PC not included)	Invict IMR
Central System Software	Invict ICS

Audio

Supported Microphones	30
Supports Wired Microphones	Yes
Supports Wireless Microphones	Yes
Echo Cancellation	Yes
Feedback Cancellation	Yes
Frequency	16Hz a 25KHz
Signal to Noise (S/N)	>90dB
Signal Processing	Incorporated DSP
Conference Modes	FIFO, Limit, Free 1-6 Microphones

Video

Supported Cameras	1
Video Input	USB 2.0, AVC
Resolutions Supported	480p@30fps 720p@30 fps 1080p@30 fps
PTZ Control	AVC, Pelco D
Close-up Recording	Yes
Recording Format	MP4/AVC
AV Streaming	RTSP
Video synchronization with participant intervention	Yes
Central Repository	ICS

Internal Storage

Type of Storage	SSD
Audio and Video Storage	Yes
Minutes Storage	Yes

Connectivity

Wired	Ethernet
RF Multi Band	2.4, 5.2, 5.8 GHz
Bandwidth	Up to 300 Mbps
Standard	802.11 a/b/g/n
Operation Modes	AP

Security

Connection security	WEP, WPA, WPA2
Microphone encryption	AES
Cipher control software	HTTP SSL

Ports

HDMI	2
Audio Output	1 (3,5mm) SPDIF/analogic
Ethernet	2 (RJ45 10/100/1000)
USB 2.0	3
USB 3.0	1
Power indicator	LED
Serial	1 (RS-232/485/422)
WIFI Antenna Connectors	2 (SMA)
Antenna	2 (5dBi)

Electrical

Feed	90~240 VAC / 9~24 VDC
Consumption	40 W

Physical

Case	Aluminum
Heat Dissipation	Passive no fan
Mounting Options	Wall, VESA, DIN Rail
Security	Kensington
Operation Temp	0°C a 35°C
Storage Temp	-20°C a 60°C
Dimensions	110mmx115mmx50mm
Weight	662 gr

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User Interface

Type of Interface	Web
Supported Languages	English Spanish Portuguese Russian
Notifications	Room Sessions
Visualization	- . State and control of devices in the room - . Extended video display - . Video of cameras and controls - . PTZ - . Operator mini video display - . Session recording status - . Available storage space - . Viewing sessions and content generated in the room - . KPI Graphics

Execution of Meetings

Types of Session	Scheduled, Quick
Start of Meeting	Programmed Session Notification
Participants	Manual or Biometric Addition
Meeting Minutes	Yes
Attached files	Yes
Signature of Minutes	On Microphone
Synchronization	Automatic with ICS on session completion

Searching and Playing Session Results

Search by Master File	Yes
Search by Participant	Yes
Search by Keyword	Yes
Search by Key Moment	Yes
Addition of Personalized Notes in Key Moment	Yes
AV Playback	ICS Console
Show Minutes	Yes
Shows Attached Documents	Yes

Video / Audio Indexing

Indexed by Master File	Yes
Indexed by Session	Yes
Automatically Indexed by Participant	Yes
Indexed by Keyword	Yes
Indexed by Key Moment	Yes
Addition of Personalized Notes in Key Moment	Yes
Mobile Clicker Client	Android IOS

Videoconferencing

Invict Clients (console to console)	Up to 10
PC or Mobile Clients	Max 4 (Not included)
Mobile Client for Videoconference	Android iOS 11 (in development)
Web Client	Yes
NAT traversal	Yes
Video codec	VP8
Audio codec	Opus
Adaptive Bandwidth	Yes
Bitrate audio	6 kbit/s a 510 kbit/s
Bitrate Video 1:1	2Mbps 720p@30fps
Bitrate Video 1:N / channel	1.2 Mbps 720p@30fps 500 Kbps 360p@30fps 100 Kbps 180p@30fps

Transcription

Automatic Transcription in Real Time	Yes, level of error undetermined
Correction in Pseudo Real Time	Yes, requires PRT software and dedicated transcription station (not included)

KPIs

Cost of Local Meeting
Local Meeting Time
Time of Use of Local Equipment
Total Recording Hours on Console
Operating status of the equipment

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Hours available for recording versus disc size and video resolution

The size of the captured video is calculated at a rate of 30 frames per second.

Resolution		Recording hours vs disk size			
Width	Height	60 GB	250 GB	500 GB	1000 GB
320	180	37	274	585	1208
320	240	28	205	439	906
640	360	9	68	146	302
640	480	7	51	109	226
720	480	6	45	97	201
720	576	5	38	81	167
960	480	4	34	73	151
960	576	3	28	61	125
1280	720	2	17	36	75
1920	1080	1	7	16	33

Table 1. Recording hours according to resolution and disk space @ 30fps

Part Numbers

Base Model: C12W



Functionality:

Empty - Discussion Only

K4 - Recording, indexing, minutes, biometrics, video conferencing.

Hard Disk Size:

- 1 - 60GB
- 2 - 250GB
- 3 - 500GB
- 4 - 1000GB