Ablecenter®
AC-02 and AC-03

"a wireless ceiling-mounted CCTV system for pupils with different forms of vision impairment ."

AbleCenter® AC-02 and AC-03 is a wireless transmitter of live and vibration-free close-up and distance images from a ceiling-mounted HD high-resolution camera. Live images from, for instance, a blackboard and a desk are shown by the same camera.

AbleCenter® AC-02 and AC-03:
- Camera with all zoom options, which can quickly change position.
- Save 9 camera angles with level of zoom.
- Image can be inverted and changed to black/white high-contrast and artificial colour combinations, save, rotate and split image, change contrast and light.
- Wireless control directly from PC/tablet, by keyboard/touch screen.
- Live images can transmitted to PC/tablet with a wireless connection.

Consequently, all the equipment you need at your desk/workplace is a completely ordinary PC or tablet. AbleCenter® AC-02 and AC-03 can also be supplied with AbleGrabber™. This is a development module for the wireless dissemination of all information presented via a projector, for example: video, images, text, smart-board etc. AbleCenter® AC-02 and AC-03 and AbleGrabber™ also contain a module for OCR function with reading of text in several different languages.

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Pupils with various forms of visual impairment will be able to adjust the image flow regarding colours, contrasts, zoom level, reading possibilities etc.

Pupils with various forms of visual impairment can control a wireless, ceiling-mounted PTZ camera from all angles, 360° horizontally and 180° vertically, and have text that appears read out loud and save it on their own devices.

A classroom equipped with AbleCenter® AC-02 and AC-03 is considered adapted for pupils with vision impairment. Both educational facility and educators can feel safe that security and privacy are safeguarded when using the system.
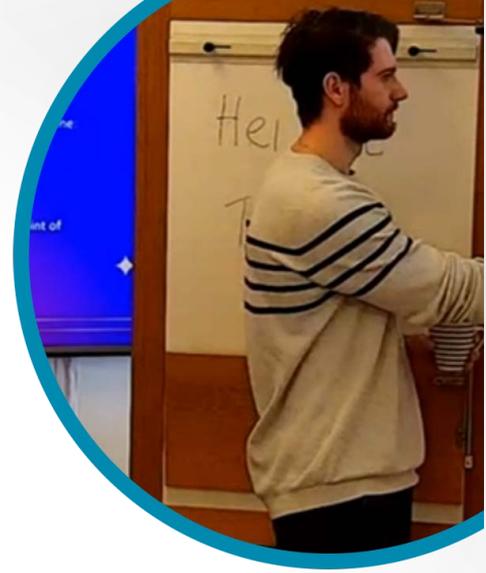
Security and Privacy.

Privacy and security has been a major area of development for AbleCon AS in the past few years. We know how important this is for pupils, educators, and parents. We have therefore, put emphasis on safeguarding privacy and safety for educators, pupils, and parents. We have developed a separate booklet which describes in detail those areas that are safeguarded by the use of AbleCenter® AC-02 and AC-03, but will briefly mention some of those measures that are built into the hardware and software for AbleCenter® AC-02 and AC-03.

AbleCenter-device indicates clearly when the system is switched on and a user is connected.

When the system is switched on this is indicated by a red light on the AbleCenter device.

AbleCenter® AC-02 and AC-03 can be switched off.

If the use of AbleCenter® AC-02 and AC-03 is not required the device can be switched off and on with the enclosed remote control unit. This prevents the possibility of compromising the security of the system.

End-to-end-encrypted video feed.

The video feed between the AbleCenter software/app on the PC/tablet and AbleCenter® AC-02 and AC-03 is transmitted using end-to-end-encryption. This way we ensure that no outsiders can gain access to the video feed.

EMBEDDED PRIVACY

In order to safeguard the privacy of users and others, and to ensure that the video feed is as secure as possible, we have implemented a number of security measures.

- The system can be switched off and on with the enclosed remote control unit.
- End-to-end encryption of video feed.
- Possible to save up to 9 fixed positions/camera angles and zoom levels.
- Possible to lock the camera to 9 fixed positions (educational objectives).
- Possible with wire connected communication and control via the electrical grid.
- The system can be limited to only one active user at a time.
- Password protected login for AbleCenter software.
- Password protected login for wireless network.
- Possibility to record video feed is deactivated as standard (can be activated when needed).
- «Take picture» function active as standard. This function can be deactivated.
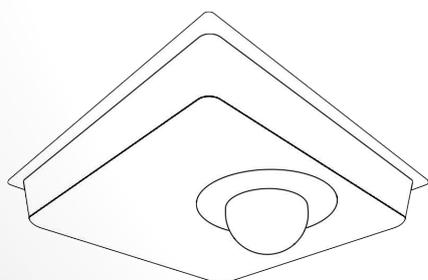
All data is encrypted

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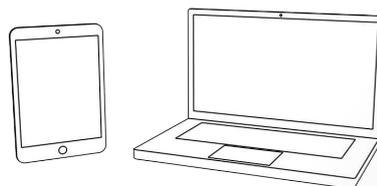
Possibility to save up to 9 fixed positions.
AbleCenter® AC-02 and AC-03 can save up to 9 fixed positions/camera angles and zoom level using the numbered buttons 1-9. By selecting the number of desired setting, the camera moves automatically to the saved position and saved zoom level. This happens so fast that it is practically impossible to interpret the image from one position to another. By using fixed positions it is of course not possible to receive other information than that which is located within the saved position.

Possibility to lock the system to 9 fixed positions.
AbleCenter® AC-02 and AC-03 can be locked to fixed positions/camera angles that are saved and approved by the educator/administrator beforehand. This prevents user at home or outsiders from receiving images outside the pre-set fixed areas.

Possibility for wire-connected communication and control through the electrical grid.
If you do not wish to use the local wireless network to control the system and direct the video feed, this can be managed through a simple component that is plugged into a wall socket which communicates with a small unit plugged into the network port of the PC. This makes it impossible for intruders to gain access to this line, and the need for more internal networks is eliminated.

One user.
The device can only be connected with one user at a time through a fixed IP-address, men it is possible to open up for more if required. Be aware, that this reduces the security level of the system by some degree.

Password protected login for AbleCenter software.
In order to use the software/app for AbleCenter® AC-02 and AC-03 the software must be activated with a code from Ablecon AS.

Password protected login for wireless network.
In order to manage the system through the wireless network, one must log into an end-to-end encrypted network med SSID and password.

Nothing is saved.
AbleCenter® AC-02 and AC-03 is used in real time. The possibility to save the video feed is deactivated as standard, but can be activated by contacting AbleCon AS.
AbleCenter® AC-02 and AC-03 can be compared to a pair of binoculars that offer the chance for persons with different kinds of visual impairments to see required positions in the classroom to take part in the education process on equal terms with other pupils and, to a certain extent participate in the social life in class.

Information sheet.
Limited understanding of the system can cause reservations for pupils, parents, and teachers. We have therefore, developed editable information sheets to pupils, parents and teachers, in case posting an information sheet in the classroom or hand out information sheets is desirable.
Suggested documents can be downloaded from our web page: www.ablecenter.no/privacy.

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