

# High-tech design for media technology

Technical description

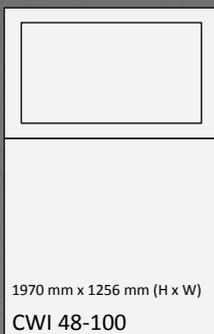
Technical specifications

Model

CWI 48-100

Product line CWI 48

- Several model sizes available
- Prepared for displays from 46" to 85"
- With or without camera cutout
- Invisible LoftSonic sound system



INCLUDING SOUND SYSTEM / SUBWOOFER / AMPLIFIER

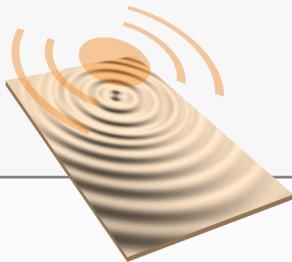
We reserve the right to make technical alterations at any time without advance notice.

## The ultimate tool for system integrators

Commwall is the base for a media unit which is mobile and can be adapted individually to the customer's needs in design and technical functionality. All media components can be installed in the Commwall by the system integrator virtually as in a bodywork. Revision and enhancement by new modules are possible at any time.

### LoftSonic Sound system

The Commwall's heart piece is the completely invisibly integrated **LoftSonic** sound system. During development the highest priority was put on high quality audio reproduction in connection with undisturbed design. Both are perfectly in tune with each other.



**LoftSonic** provides a dynamic, space-filling sound and best speech intelligibility and turns Commwall into a wholistic audio-visual experience of the highest quality.

Material and construction are designed for durability and persistent business value and can be adapted to a new design or be enhanced with new functions at any time.

„One piece of media technology, please“: Commwall offers the system integrator the perfect platform to create a media unit for conferences, meetings and communication, which leaves nothing to be desired.

The advantages at a glance:

- Easiest standardization of media technology
- No need to coordinate with other trades
- Reduced media technology integration process costs
- Integration of manufacturer-independent media technology systems
- Mobility
- Great variety of display sizes from 46“ – 85“
- Individually customizable equipment and design

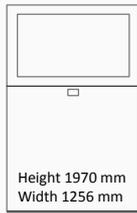
### Extremely simple handling, mobility and modularity

Turn meeting rooms, huddle spaces, lounges, discussion corners, communication areas, information points, exhibition booths, etc. into complete media technology communication areas without any structural changes, drilling, hammering or sawing...

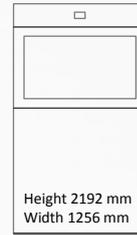
Product line CWI 48 for display sizes up to 48" (49" on request)



CWI 48-100

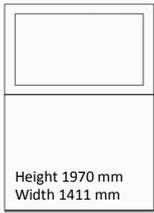


CWI 48-300

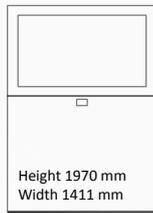


CWI 48-500

Product line CWI 55 for display sizes up to 55"



CWI 55-100

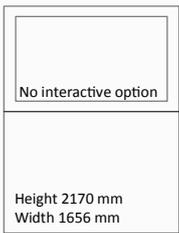


CWI 55-300

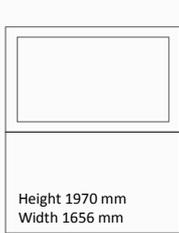


CWI 55-500

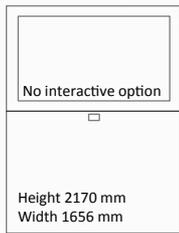
Product line CWI 65 for display sizes up to 65"



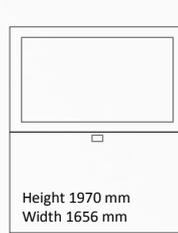
CWI 65-100



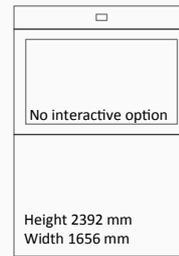
CWI 65-200



CWI 65-300



CWI 65-400

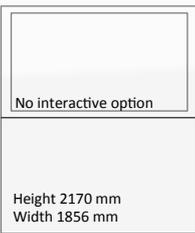


CWI 65-500

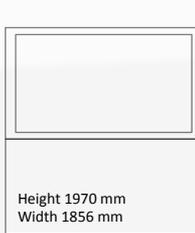


CWI 65-600

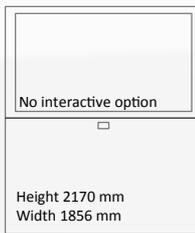
Product line CWI 75 for display sizes up to 75"



CWI 75-100



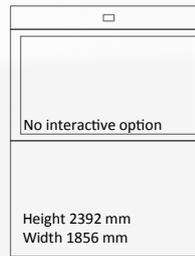
CWI 75-200



CWI 75-300



CWI 75-400



CWI 75-500

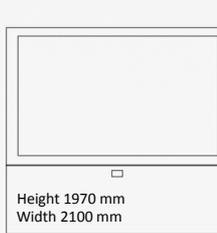


CWI 75-600

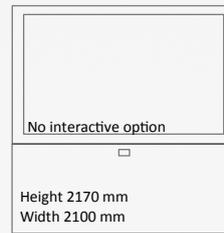
Product line CWI 85 for display sizes up to 85"



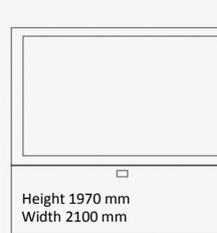
CWI 85-100



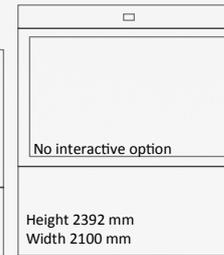
CWI 85-200



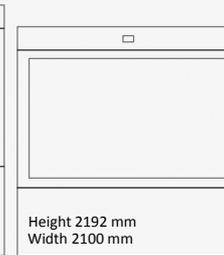
CWI 85-300



CWI 85-400



CWI 85-500



CWI 85-600

We reserve the right to make technical alterations at any time without advance notice.



Modularity and easiest handling distinguish the construction and conception of Commwall from those of other media units.



- 1 Lower part with invisible LoftSonic sound system
- 2 Display module with touch option (not for all models)  
Display cutout to be chosen from 46" to 85"
- 3 On-top camera module on request
- 4 Exchangeable side panels, also with LED light (RGB)
- 5 Lift device operated by one person
- 6 Transport device operated by one person
- 7 Adjustable display mounting (Vesa)
- 8 Installation platform for media technology
- 9 Back wall, sound absorbing on request
- 10 Connectivity for Neutrik system
- 11 Absolutely torsion-resistant connection between base plate and load bearing metal pillars

We reserve the right to make technical alterations at any time without advance notice.

## Construction

### Commwall CWI 48-100

#### Media unit with an invisible LoftSonic Soundsystem for integration of media technology

High-quality media unit for mounting of 46 inch to 48 (49) inch multi-media displays in horizontal arrangement, consisting of a massive silver-grey powdered steel plate base, a bottom part arranged on top of it with glass front to take in the invisibly integrated loudspeaker section and media technology components, and an acoustically decoupled top part with glass front to take in a monitor and further media technology components.

The unit is built out of several modules especially to allow easy transportation and movement to another location e.g. within buildings (lifts). Each of the individual components consists of stable pillars which – when mounted – form an absolutely smooth form-fitting solid rigid connection of all sections especially between the base plate and the upper modules.

The front of the bottom part consists of a glass panel (optional with camera cutout) whose vibration regarding its property as vibration-transmitting loudspeaker bending wave membrane is neutral by virtue of its specific construction and mounting and which due to its deliberately small mass influences the potential sensitivity as little as possible and thus allows for being used without compromise as active membrane part of the loudspeaker.

This allows an optimal interaction with the electric exciters and thus a first-class sound reproduction.

A construction that decouples the glass front of the upper part prevents it from passively vibrating and

substantially helps to not negatively influence the sound reproduction by the sound system in the audio section of the bottom part.

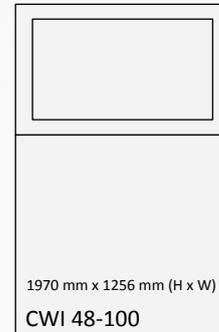
The media technology components are mounted in the bottom part onto a stable mounting plate which is placed behind the flat panel loudspeakers and serves as separate installation plane for flexible device mounting.

The glass fronts of the bottom and top section are realized in single-pane safety glass quality, their back is coated in white or black alternatively, or optionally for an extra charge, in all common RAL colours. Several other customized materials/finishes are available optionally for an extra charge. The glass edges are chamfered and polished.

The back side provides 14 cut-outs for the Neutrik system to be fitted with connection sockets as needed (Sockets not included in the scope of delivery).

In addition, the back side provides slit openings which, on the one hand, allow sufficient air circulation in the inner of the complete unit and which, on the other hand, serve as sound outlet openings for the subwoofer which ensure that because of this the back walls do not significantly vibrate when the subwoofers produce an alternating air pressure during operation.

This construction and the fastening of the back walls by means of magnets avoids that the back walls rattle even at higher volumes of the audio system.



The back walls of the bottom and top part are in high-gloss finish black or white and can be removed for mounting or maintenance by a single person without problems. The unit takes in screens with a depth up to 80 mm and cameras with a depth up to 150 mm (205 mm with Commwall-Plus option) incl. wiring.

The media unit is equipped with side panels which, optionally for an extra charge, can be delivered in various surface designs as for example in all common RAL colours, various wood veneers, etc. and LED light (RGB) option.

#### Additional specifications:

The active display cutout is defined by the respective display.

The maximum display dimensions are 1100 mm x 650 mm x 80 mm (width x height x depth).

The total dimensions of the unit are 1256 mm x 1970 mm (width x height).

The stand support has a depth of 480 mm (600 mm optional for an extra charge when necessary).

### Optional Equipment / Retrofitting

**The unit can be expanded by the following items, optionally for an extra charge, even at a later stage:**

- Invisibly integrated one-man lift device for trouble-free lifting of the complete unit onto a rolling transportation device. As a standard, the media unit is already prepared for retrofitting

- Removable one-man transportation device with large heavy-duty casters and a safeguard against slipping down designed for the trouble-free movement of the unit to another location by a single person

- The varnish of the glazed front can be delivered with a cutout for integration of a camera for web conferences (Standard in combination with CWI XX-300/400)

- On-top camera module, integrated into the housing, to be used for cameras with up to 150 mm depth on top of the monitor (Standard in combination with CWI XX-500/600)

- Retractable Cam / Mic option For camera and microphone when not in use.

- sAVdm (Safety AV disconnect mechanism) Mechanical Cam/Mic circuit breaker option to cut off the power of USB-cameras and microphones. It will cut off the power automatically when the camera/mic is retracted. It is an un-hackable solution to prevent unwanted listening in or observing of your conference room.

- Capacitive system-independent touch function for interactive applications, can also be retrofitted without any problems on site without lamination in combination with a glass front

- Perforated sound-absorbing back walls

- Fronts in all common RAL colours and various materials for adaptation of the design

- Exchangeable fronts for later adaptation of the design to e.g. colour to the environment

- Exchangeable side panels, also with LED elements (RGB) for ambience illumination



Commwall-Lift



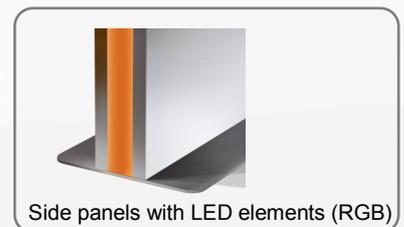
Commwall-Skate



On-top camera module



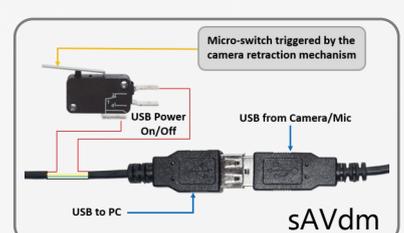
Touch interactive package



Side panels with LED elements (RGB)



Retractable Cam/Mic



sAVdm

### Invisible sound system

#### LoftSonic Basic

**Invisible integrated 2-way loudspeaker system LoftSonic Presentation for high-quality audio reproduction, consisting of:**

#### Mid-high frequency:

Flat panel loudspeaker on the principle of a bending wave transducer, integrated into the glass front of the media unit and in tune with it. The exciters for middle and high frequency are integrated into the glass front of the media unit and activate it as a sound-radiating area. The back sides of the exciter modules are protected by a stable covering.

Frequency range: 100 Hz – 20000 Hz  
Dispersion angle: 180° x 180°  
Power handling: 2 x 30 W / 8 Ω

#### Low frequency:

Subwoofer integrated into the media unit. Dimensions and sound are in tune with the media unit. Due to the arrangement and the effective direction of forces in the loudspeaker chassis no vibrations occur at the media unit. Decoupling of the subwoofer from the media unit is thus not necessary.

Frequency range: 40 Hz – 200 Hz  
Power handling: 125 W / 8 Ω

#### System amplifier:

Audio amplifier incl. integrated DSP system with ready-fitted audio setup especially adjusted to the LoftSonic system in connection with the media unit.

Optional for an extra charge:

#### LoftSonic Presentation

**Invisible integrated 3-way loudspeaker system LoftSonic Presentation for high-quality audio reproduction, consisting of:**

#### Mid-high frequency:

Flat panel loudspeaker on the principle of a bending wave transducer, integrated into the glass front of the media unit and in tune with it. The exciters for middle and high frequency are integrated into the glass front of the media unit and activate it as a sound-radiating area. The back sides of the exciter modules are protected by a stable covering.

Frequency range: 100 Hz – 20000 Hz  
Dispersion angle: 180° x 180°  
Power handling: 2 x 60 W / 4 Ω

#### Low frequency:

Subwoofer integrated into the media unit. Dimensions and sound are in tune with the media unit. Due to the arrangement and the effective direction of forces in the loudspeaker chassis no vibrations occur at the media unit. Decoupling of the subwoofer from the media unit is thus not necessary.

Frequency range: 40 Hz – 200 Hz  
Power handling: 250 W / 4 Ω

#### System amplifier:

Audio amplifier incl. integrated DSP system with ready-fitted audio setup especially adjusted to the LoftSonic system in connection with the media unit.

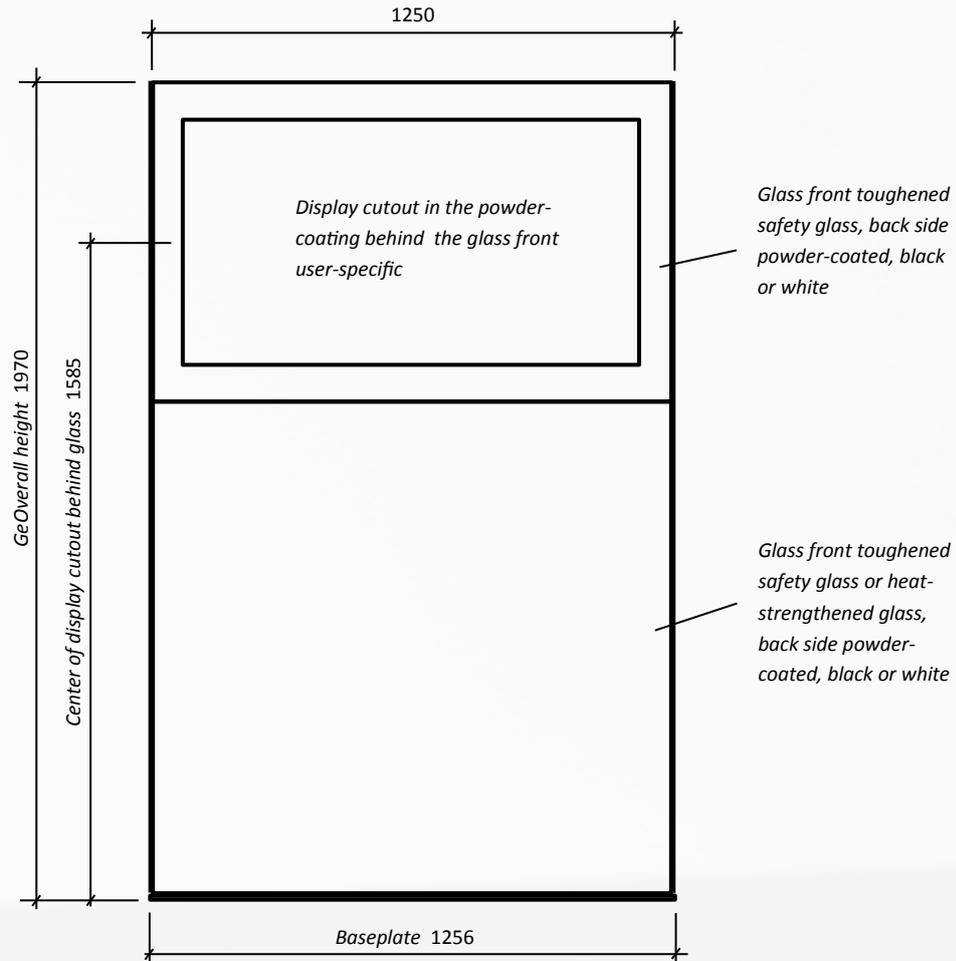


# Dimensions and specifications

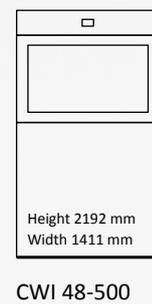
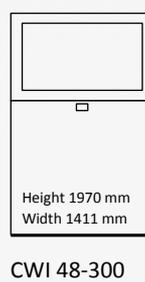
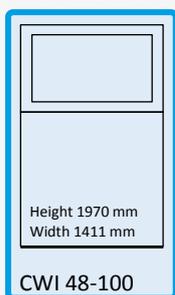
## CWI 48-100



### CWI 48-100 front view



### Product line CWI 48



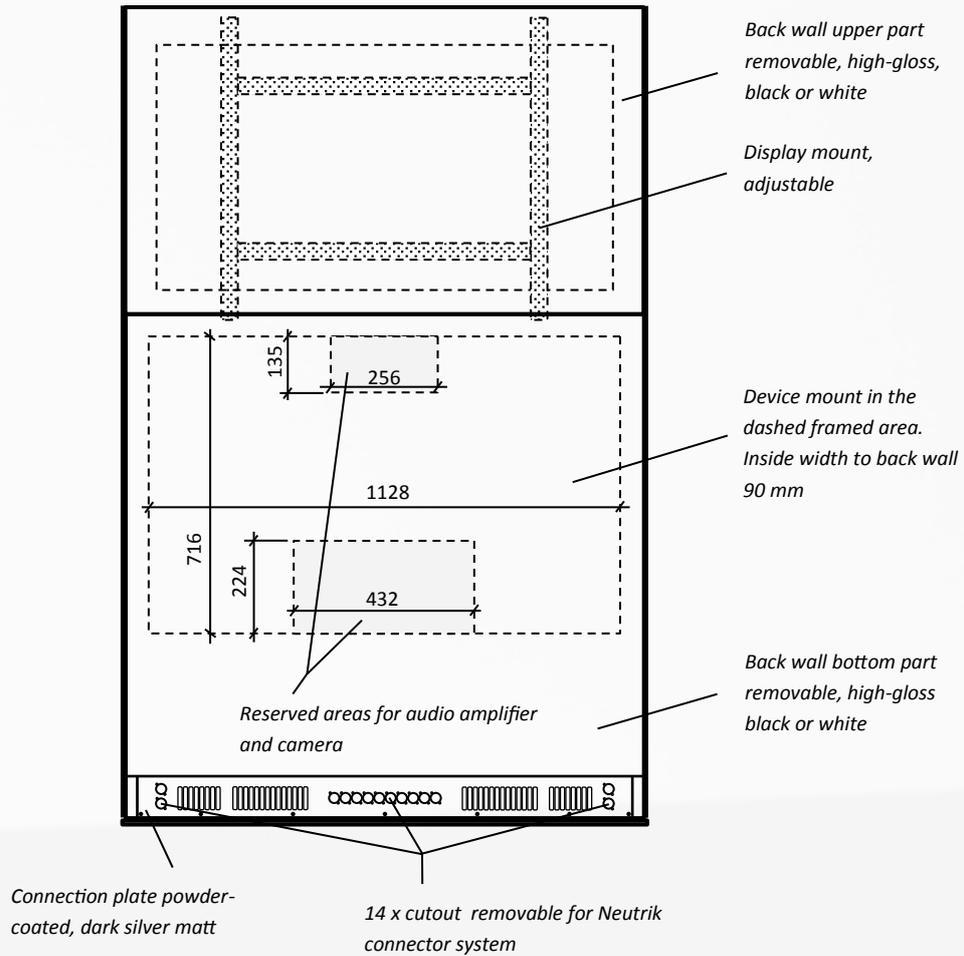
We reserve the right to make technical alterations at any time without advance notice.

# Dimensions and specifications

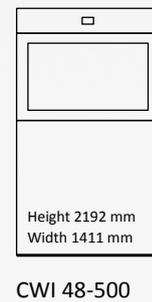
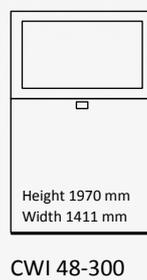
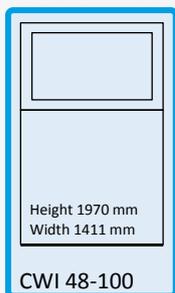
CWI 48-100



## CWI 48-100 back view



## Product line CWI 48



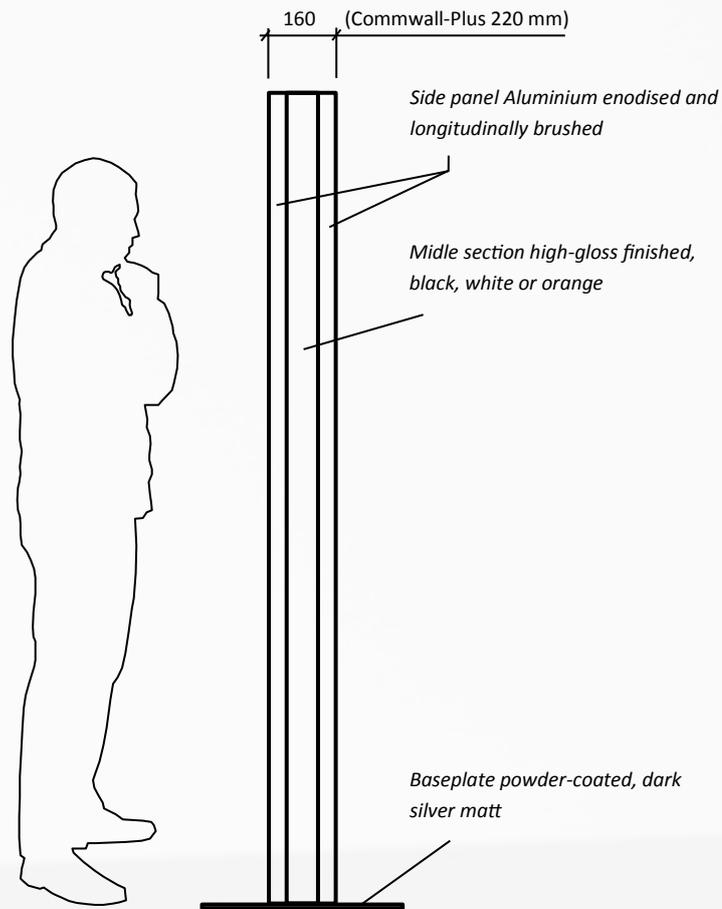
We reserve the right to make technical alterations at any time without advance notice.

# Dimensions and specifications

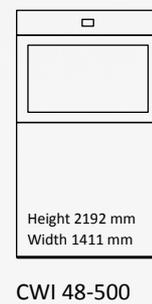
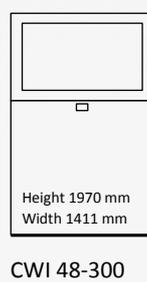
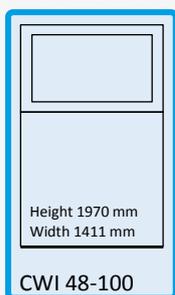
CWI 48-100



## CWI 48-100 side view



### Product line CWI 48



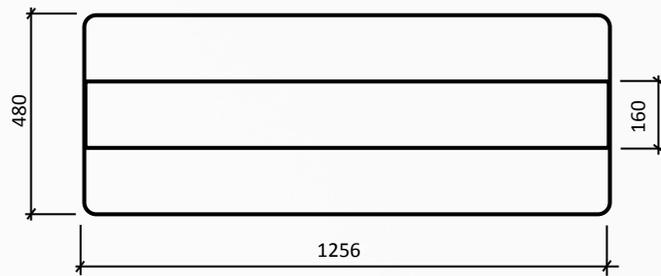
We reserve the right to make technical alterations at any time without advance notice.

# Dimensions and specifications

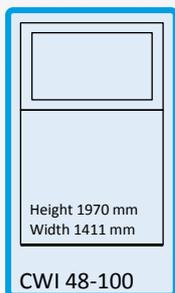
CWI 48-100



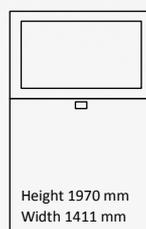
## CWI 48-100 top view



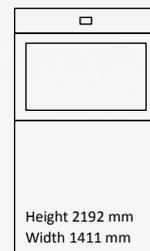
### Product line CWI 48



CWI 48-100



CWI 48-300



CWI 48-500

We reserve the right to make technical alterations at any time without advance notice.



**ML-Audio und Carbons GmbH**

Am Hemel 2 A

55124 Mainz / GERMANY

Tel. +49 6 131 60 30 723

Fax +49 6 131 60 30 796

info@mlaudio.de

[www.mlaudio.de](http://www.mlaudio.de)



We reserve the right to make technical alterations at any time without advance notice.