Commwall®

High-Tech Design for media technology

Great Sound

Easiest Handling

Mobility

Divisibility

Made in Germany

Commwall®

Commwall®

Perfect for Architects and Planners

Commwall turns 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...

Commwall facilitates and simplifies planning and implementation of complex projects. Thanks to the possible plug-and-play solution there is no need to include different trades.

Made in Germany

Commwall

Commwall is …

- **Integral unit** for conference, meeting, collaboration, presentation etc.

- **Completely mobile**

- **Dynamic, space-filling sound** and best speech intelligibility for any audio content

- **Individually configurable** manufacturer-independent media technology

- **Modularly** upgradable

- **Interactive** touch option, upgradeable also later on site

- Non-blinding **Illumination** with LED elements

- **High-quality timeless design,** can be adapted individually to the customer's needs and other furniture

- **Easiest handling** incl. transport and installation by a **single person**

- Individual **display dimensions from 46" to 85"**

- **No need to coordinate with other trades** (dry construction, interior works, electrics, furniture etc.)

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Commwall® – **Individually standardizable**

Individually configurable / Manufacturer-independent

|		
BYOD	Collaboration	Presentation
Video Recording	Great Sound	Streaming
Whiteboard	Webcasting	Annotation
WebEX	**Commwall®**	Skype
TV / Apple TV	Skype for Business	Illumination
Web Conference	4K	Digital Signage
Touch	Open to Future	Media Player
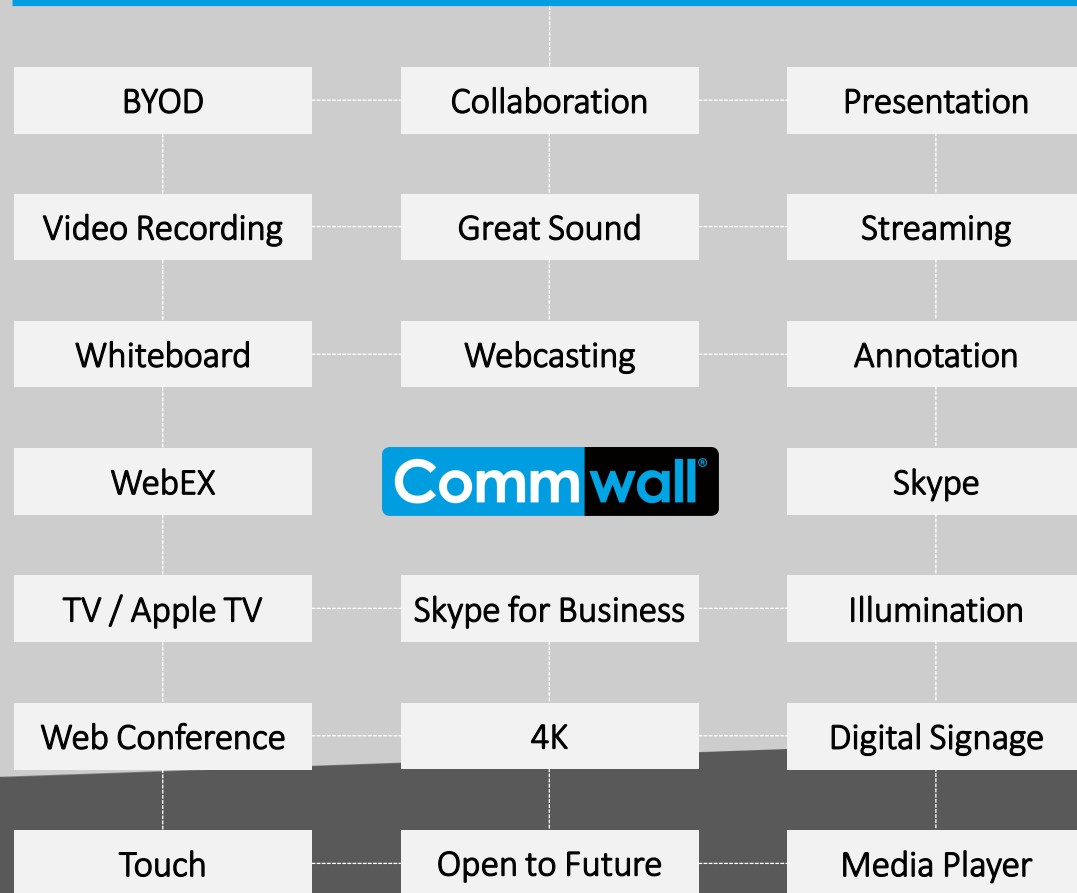
Commwall®

Media technology individually configurable

All **media technology components** can be installed in the Commwall virtually as in a framework.

Revision and enhancement by new modules are possible at any time.
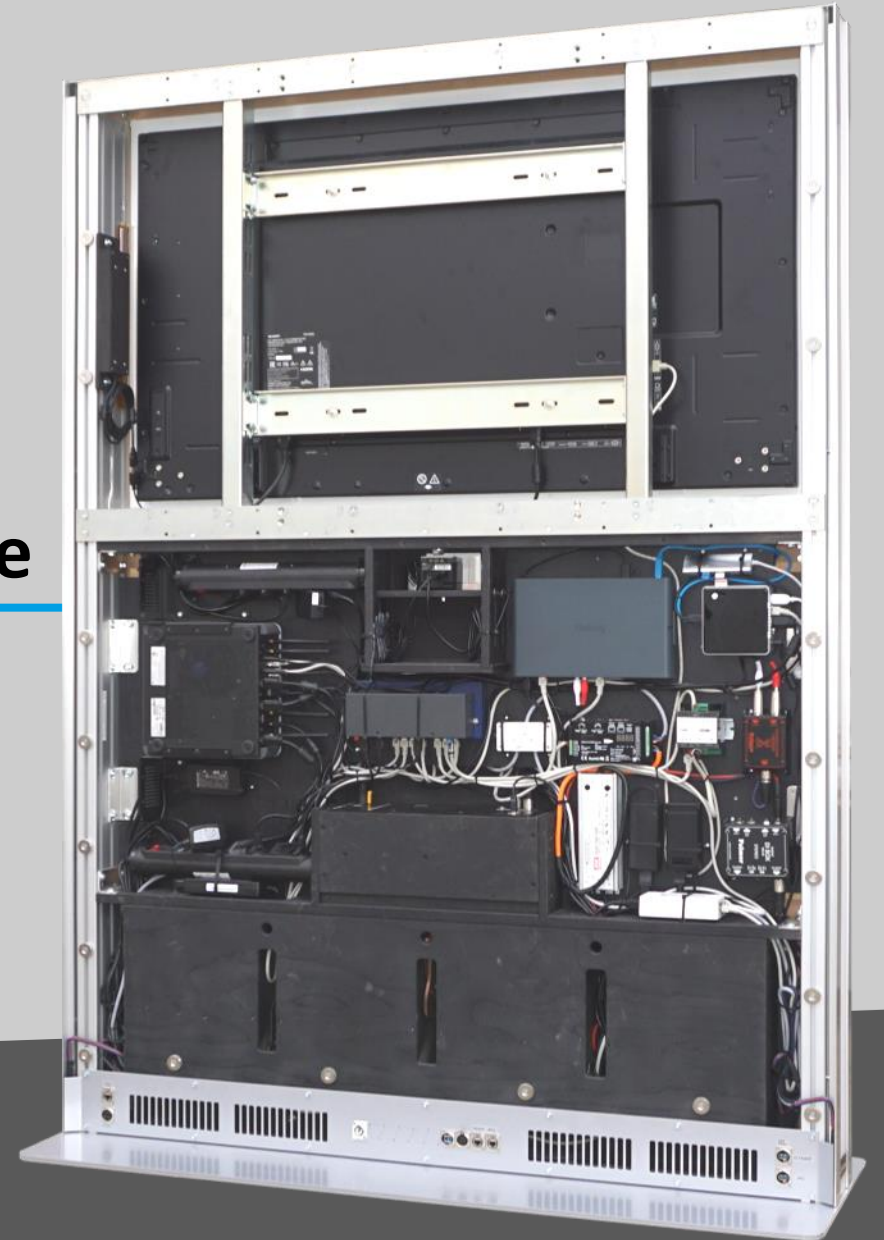
Display integration

Commwall integrates nearly **all types of displays from 46" to 85"** behind glass (touch sensitive glass surface optional) or in a front-cutout.

Display integration

Touch-capable displays

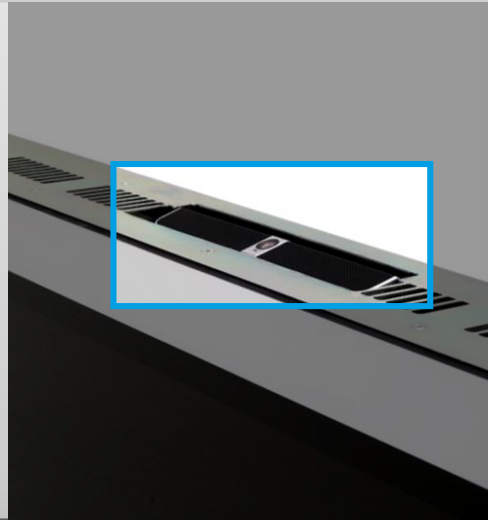When touch-capable displays are used there is always an **individual cutout** provided in the front.

Commwall®

Retractable Cam / Mic option

Automatic retraction mechanism

For camera and microphone when not in use.
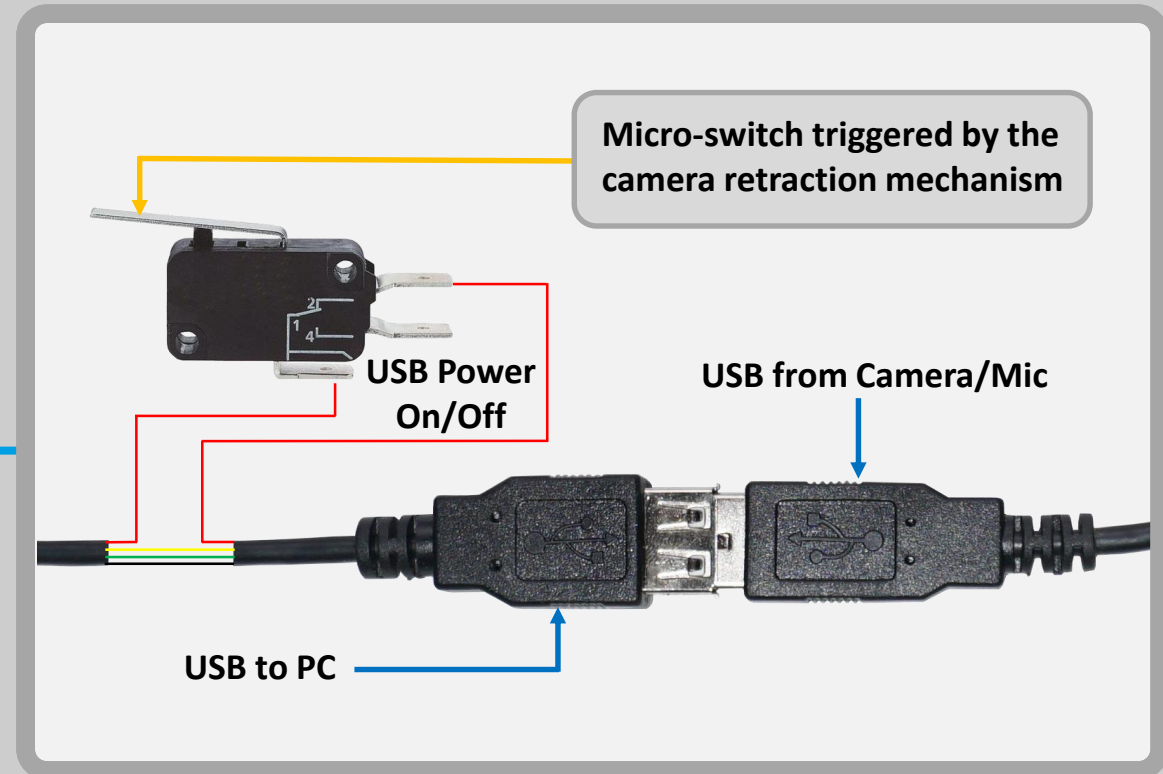
![Commwall logo]

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.

sAVdm (Safety AV disconnect mechanism)

Micro-switch triggered by the camera retraction mechanism

USB Power On/Off

USB from Camera/Mic

USB to PC

Invisible Sound System

Commwall®

Great sound as a standard

LoftSonic®

LoftSonic® - invisibly integrated

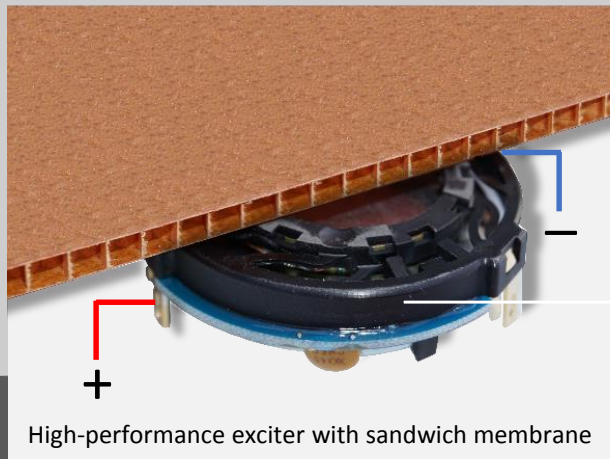**Perfect sound for any multi-media content.**

Invisible Sound System

The **LoftSonic**® loudspeakers equals the way **acoustical musical instruments** radiate their soundwaves.

The soundbody of such musical instruments **vibrate** and thus emits sound-waves.

LoftSonic® mid-high loudspeaker

LoftSonic®

Sandwich membrane behind the front

High-performance Exciter

Exciters causes the front of the Commwall to **vibrate,** thus transforming it into a vibrating **soundbody**.
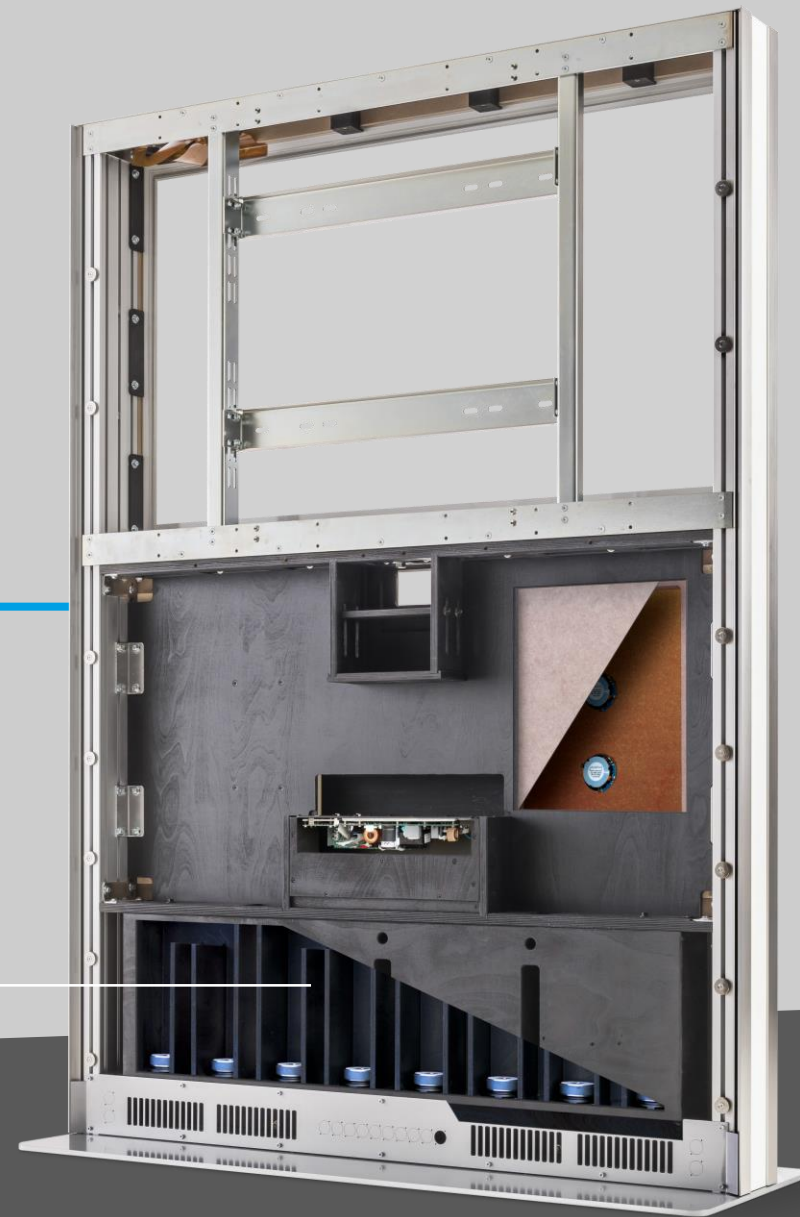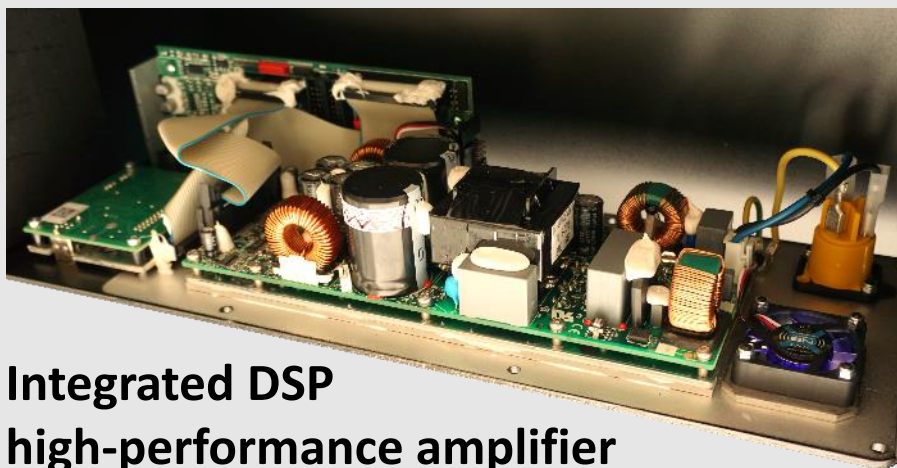
High-performance exciter with sandwich membrane

Commwall®

LoftSonic®

Subwoofer with depth

For a **maximum bass performance** the LoftSonic® sound system is fitted with a **powerful bass-reflex subwoofer.**

**Integrated DSP
high-performance amplifier**

The LoftSonic® power station

LoftSonic®

The **DSP-amplifier with power provides the outstanding dynamics** of the LoftSonic® sound system.

DSP audio-
system amplfier

Invisible Sound System

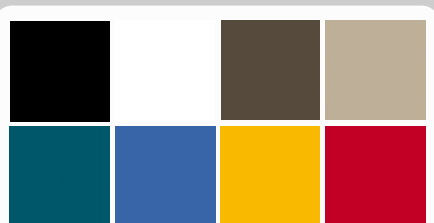**Commwall**®

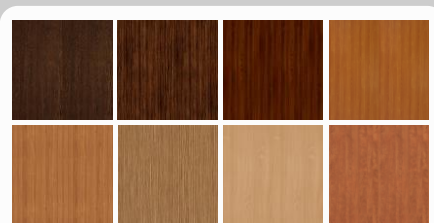**LoftSonic® brings emotions to life** LoftSonic®

- **Dynamic sound**
- **Room-filling acoustic**
- **Best speech intelligibility**

Various audio-presets ex works, optimized for speech, film, music etc.

Individual surface designs

Commwall®

RAL Coating behind glass
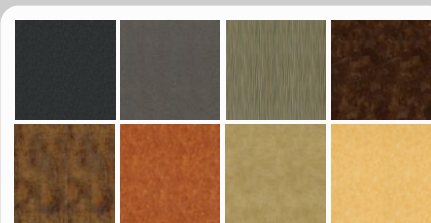
Wood veneers / reproductions

Creative decors / Plain colours

Hundreds of different material and design options

Perfect surface design adaptation to the other furniture (desks, chairs, cabinets etc.) by using the same materials when cooperating with the particular furniture manufacturers
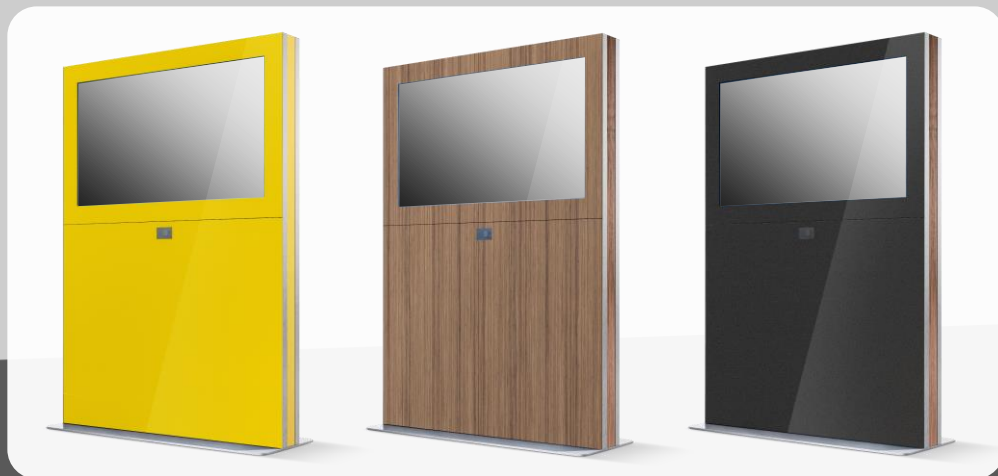
Digital prints
behind Glas, e.g. logos

Glass front white or black as standard

Commwall®

Adapts to the interiors

Exchangeable front panels and side panels make sure that the design can be fitted to the **interior** and the **Corporate Identity**.

Exchangeable side panels

Exchangeable front panels

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Illumination with LEDs

Side panels with LED elements.

To atmospherically illuminate the ambience or as lighting scenario.

Lighting scenario
Room occupied

Free choice
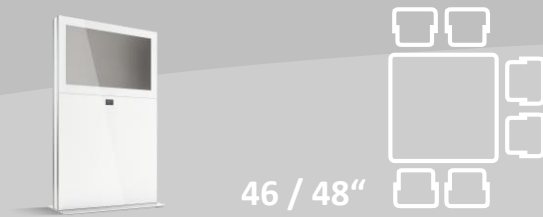of colours

Lighting scenario
Room vacant

The Commwall Family

Commwall and Commwall-Plus with extended camera installation depth up to 205 mm

46/48"   55"   60/65"   70/75"   80/85"

Commwall®

Product lines
Number of persons

46 / 48"

55"

60 / 65"

70 / 75"

80 / 85"

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

CWI 48-100   CWI 48-300   CWI 48-500

Product line CWI 55 for displays up to 55"

CWI 55-100   CWI 55-300   CWI 55-500
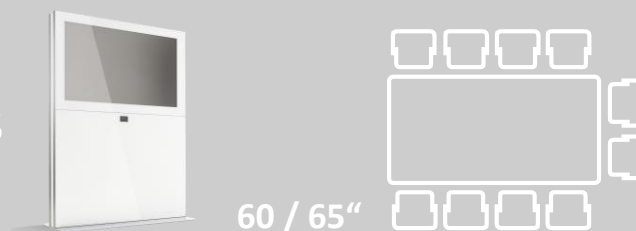
Product line CWI 65 for displays up to 65"

CWI 65-100   CWI 65-200   CWI 65-300   CWI 65-400   CWI 65-500   CWI 65-600
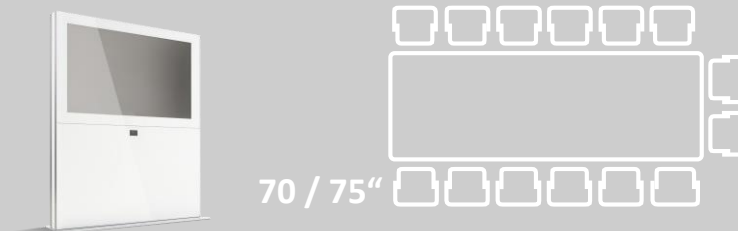
Product line CWI 75 for displays up to 75"

CWI 75-100   CWI 75-200   CWI 75-300   CWI 75-400   CWI 75-500   CWI 75-600
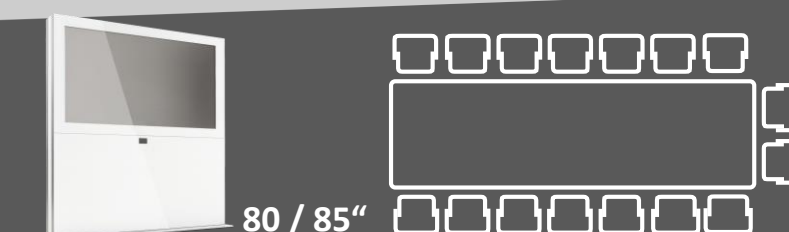
Product line CWI 85 for displays up to 85"

CWI 85-100   CWI 85-200   CWI 85-300   CWI 85-400   CWI 85-500   CWI 85-600

Commwall®

Wall mounting kit

Each Commwall can be delivered with a **wall mounting kit** in order to fasten it **directly to the wall** without the base plate.

Self-carrying construction! No special static requirements for the wall (absolutely drywall suitable)

Commwall®

Maintenance

Due to the **self-lifting and carrying construction** the wall-mounted Commwall can be **opened like a door by one person.**

Being then accessible from the back side for maintenance.
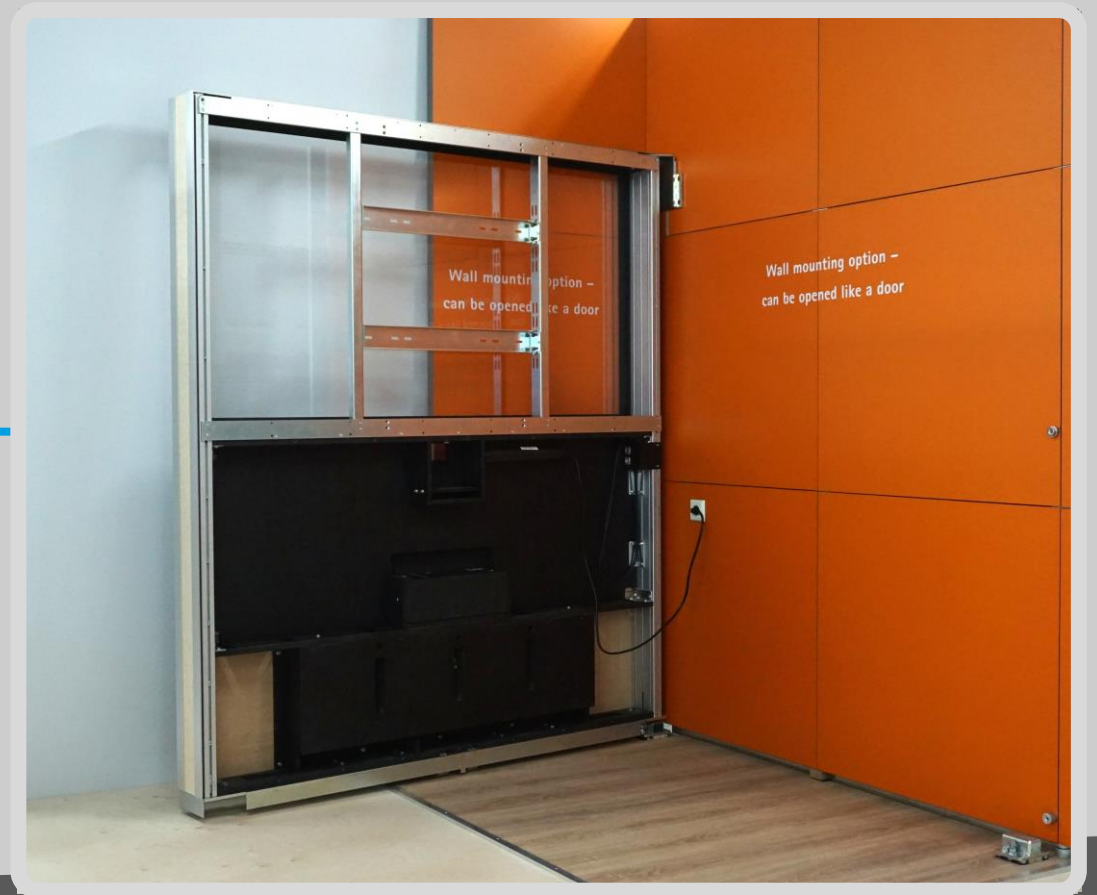
Self-lifting and carrying construction on wheels in the center!
No special static requirements for the wall (absolutely drywall suitable)

Mobile between rooms with Commwall-Skate

With the **removable undercarriage** Commwall is mobile and **safely movable by a single person** even in tight spaces and on uneven floors.

Commwall-Skate

Commwall®

Integrated spindle lifting device

Stable unit through connection rods

Easy raising with Commwall®-Lift

Commwall-Lift
The **integrated lifting device raises Commwall easily** to the height of the undercarriage.

40 mm headroom

Commwall-Skate

Commwall®

Easiest handling due to divisibility

Commwall, **divided into handy pieces,** allows trouble-free transportation or movement into other rooms even where the entrance is relatively small **(doors, lifts)**.

Side-Skate

With the Commwall-Side-Skate the pieces can be **transported vertically** without problems, e.g. in small lifts.
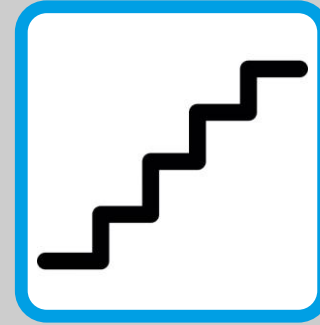
Side-Skate

Significant **weight reduction** by dismantling the base plate with help of the side-skate.

E.g. for the **transport on stairs.**

One-man-installation / Rental

Safe stowing of Commwall in the flight case system for the road transport.

With the mobile one-man support a **single person** can mount the pieces within a few minutes, e.g. for **installation or when rented out**.

![Commwall®]

Big-Lift device for paletts etc.

Makes it possible for **a single person to lift Commwall** onto paletts, skateboards, flight cases, etc.

160 mm headroom

Construction

The unique construction makes Commwall

„UNLIMITED"

and unachievable in its combination of functionality, handling, and design.

Construction details

Commwall®

- Divided back wall, sound-absorbing option
- Stable display support
- Camera installation depth up to 205 mm incl. wiring
- Installation platform for media technology
- DSP audio system amplifier
- Powerful subwoofer with bass-reflex tuning
- Variable plug-in points
- Exchangeable side panels
- LED elements (RGB)

- Camera module optional
- Individual display cutout (46" to 85")
- Touch interactive package behind glass
- Divisibility for easiest handling
- Camera cutout
- Invisible LoftSonic sound system
- Individually designed, exchangeable front panels
- Removable undercarriage
- Integrated one-person spindle lifting device

40 mm headroom to raise to the height of the undercarriage

The special features

- Excellent design
- Modularity / mobility
- Great sound
- Camera installation depth up to 205 mm incl. wiring
- On-top camera module
- Sound-absorbing back wall available
- Touch interactive package
- Lifting device Commwall-Lift
- Divisibility for easiest handling
- Direct wall mounting possible
- Exchangeable surface designs
- Exchangeable side panels
- Ambience illumination
- Transportation by a single person
- Nearly unlimited upgrading
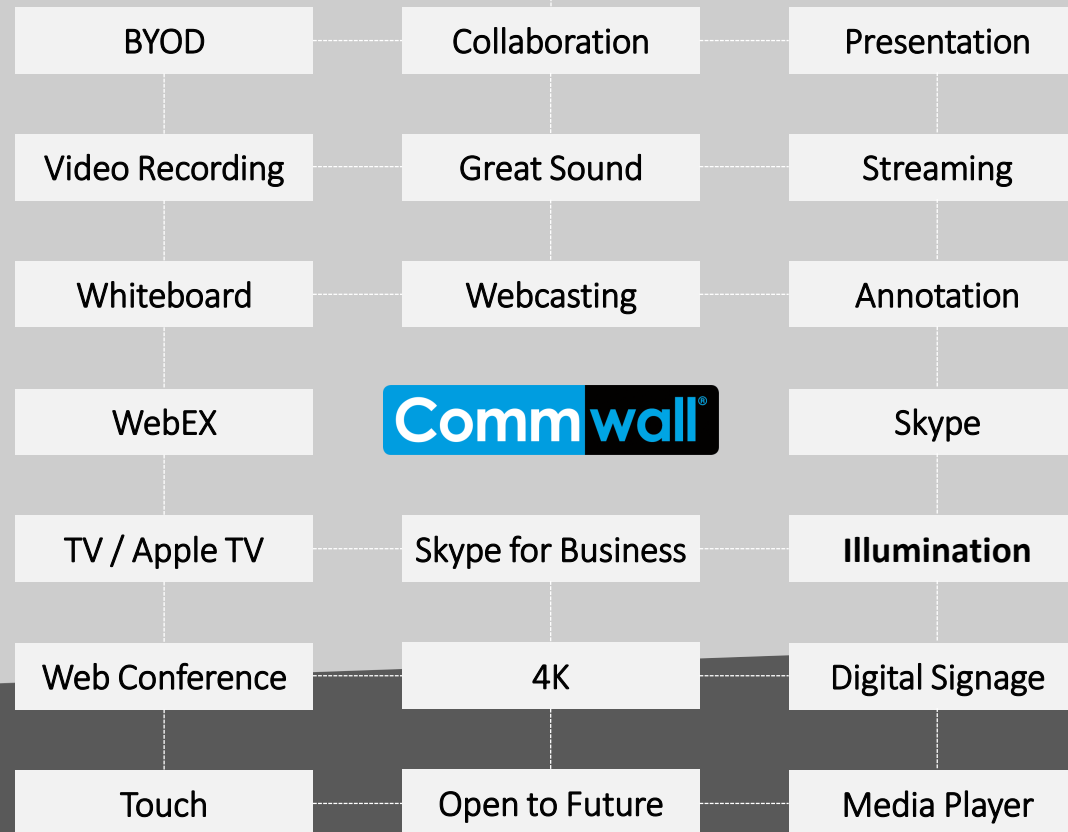
Strong arguments

- No need to co-ordinate with other trades

- Integration of manufacturer-independent media technology systems

- Reduced media technology integration process costs

- Reduced costs by virtue of standardized media technology

- Plug-and-Play connectivity possible

- Increased acceptance due to standardized operation at all locations

Thank you very much for your interest

Commwall®

High-Tech design for integration of professional media technology
Individually configurable

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Made in Germany

BYOD	Collaboration	Presentation
Video Recording	Great Sound	Streaming
Whiteboard	Webcasting	Annotation
WebEX	**Commwall**®	Skype
TV / Apple TV	Skype for Business	**Illumination**
Web Conference	4K	Digital Signage
Touch	Open to Future	Media Player

Some facts about ML-Audio und Carbons GmbH

Founded in 1997
Development and production of loudspeaker systems
Specialised since 2000 in developing and manufacturing of Novasonar invisible flatpanel loudspeakers
2016 development of Commwall integrate, High-Tech design for media technology

Innovations of ML-Audio:

- Light weight carbon fiber cabinets for PA-Systems
- Boxer technology – Vibration free high-end double 18" PA Subwoofer
- MusicaNova technologie – High-End Long-Throw 3-Wege Koax PA Concert-Sound System
- Novasonar worry-free-concept – Flat panel loudspeakers factory integrated into building materials
- Commwall – High-Tech design for media technology with an invisible high-performance sound system

Commwall® LoftSonic® NOVASONAR
Trademarks

ML Audio und Carbons GmbH Lautsprechertechnik

CEO Karl-Heinz Theis 06/1999