

Free advice:

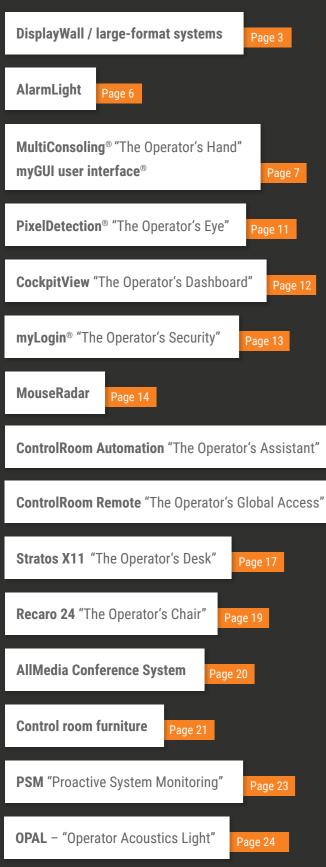
# **JST Product Overview**

A summary of our products in a compact PDF file. We've provided the most important information, compressed into a few pages.

# **\ +49 4161 993 80 20**



# **Product overview**





#### **CriticalAlert Display** with CockpitView

also for connection of the individual work station

#### **Supervisor Display**

with CockpitView to display all system statuses

#### JST **PixelDetection**<sup>®</sup> "The Operator's Eye"

event-controlled screen connection

#### COMIN Digital Situation Table SOON!

with Touch Interaction and MultiConsoling<sup>®</sup> interface

# Display Malte operator's teamview

#### Monitor walls with seamless 24/7 LC displays and alarm function

RADING GRAPH

Quality: Developed for 24/7 running in control rooms with S-PVA-Panel Proactive: Interfaces for event-controlled alarm systems with PixelDetection<sup>®</sup> Clear layout: Cause analysis and decision-making with "TeamView" Operation: In real time with keyboard & mouse, right on the monitor wall Event-controlled: The computers and cameras are switched on automatically in the event of alarms

#### **Need more information?**



or visit our website: www.jungmann.de

# JST DisplayWalls are the major players in your control room

A DisplayWall consists of several large LC displays or back-projection cubes that are installed on top of and next to each other. This creates a **largeformat, interconnected image**. The image is only interrupted by frame widths of around 1.2 mm to 15 mm, depending on the display technology used.

What makes JST DisplayWalls special is that they are **event-controlled**. The computers and cameras can thus be switched on automatically, without the intervention of the operator, and operated in real time.

The operator talks here about the "TeamView", because now the entire team has the same level of knowledge about the most important alarms.

#### Seven good reasons for choosing JST DisplayWalls:

**01 | Accurate display:** The interconnections between different alarms are shown quickly and clearly because of the large display surface, large vertical and horizontal perspectives, perfect illumination using energy-saving LED background lighting a high pixel resolution.

**02 | Durability:** JST DisplayWalls are specially designed for continuous 24/7 running in control rooms. These are definitely not the kind of televisions that are used in private homes.

#### **03** | Fast cause analysis and decision-making with "TeamView": The entire control room team is provided with the most important information at the same time. The DisplayWall can even be operated in parallel or alternately and in real time. It thus

becomes a real extension of the workplace desktop. The result: substantially improved team work, giving faster reactions and fault elimination.



**04** | **Clear, structured, tidy:** Consolidating a vast range of system, plant and danger situations means that monitoring and control can be more efficient. There is no need for superfluous workplace monitors. The operator can keep an eye on everything.

#### 05 | JST DisplayWalls have interfaces to event-controlled alarm systems! That means: Showing the most important alarms at the required time, at the right place and in the most effective

time, at the right place and in the most effective size. In this way, the DisplayWall becomes a reliable information hub, on which no alarm can be accidentally missed.

**06** | **Improved decision-making reliability:** To be able to act even more quickly and on a constantly coordinated basis, further information about the alarms is automatically added as the situation requires. The various different alarms can also be correlated in all sorts of ways. Only JST offers this particular intelligence.

**07 | Good design and functional added value:** The DisplayWall can also be provided with an attractive cover and an AlarmLight. In the event of a fault, the AlarmLight can flash red – depending on configuration – so that the entire team is notified immediately, especially in the event of critical alarms.

# JST DisplayRack

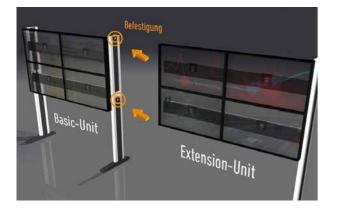
Maybe you don't have a solid wall for mounting your large-format displays? Or maybe you'd like some flexibility when it comes to choosing your display sizes in the future? Then the free-standing JST DisplayRacks are the right choice for ou. The Basic Unit – consisting of two side elements – can be expanded by any number of Extension Units as required.

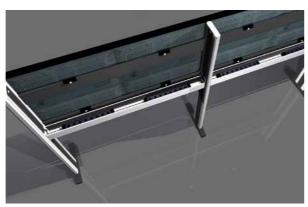
The many practical features of the DisplayRack include the precise adjustment capability. Screens can be freely adjusted with absolute precision, both in height and in width. The result: a visually perfect, uniform set of panel images. Other plus points include the provision of special aluminium cable ducting and the rollers "invisibly" integrated in the foot stabiliser which offer optimum service access and all the entire DisplayWall to be moved around freely.

Matching media boards with sliding doors providing space for technical installations or paper storage are available as an option.









**JST DisplayRack:** Front and rear view with Basic Unit; the two side sections can be extended to the left and right with any number of Extension Units.

**Foot stabiliser with integrated rollers:** If necessary, the DisplayRack can be installed right in front of a wall and rolled straight forward for inspection.



# JST DisplayCover

The JST DisplayCover is a particularly visually appealing option for large-format technology concepts in the control room. With this room-in-room structure, the DisplayRacks described on the previous page form the basis for a solution that's both practical and well designed.

Alongside its attractive appearance, the JST DisplayCover combines a whole series of important functions for your control room: It keeps annoying fan noises and unwanted heat emissions away from the control station. In addition, the hardware located in the newly built technical room can not only be installed in perfectly fitting racks, but also be efficiently cooled. Even access for maintenance does not affect what happens in the control room.

The DisplayCover provides not only a cover with special acoustic material but also space for cabinet systems with different door variants and drawers.





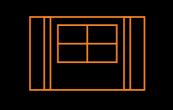
The special brush seal between the large-format screen and the cover guarantee flush-fit closure. The additional choice of acoustic material lowers the noise level in the control rool and closes off sounds behind the decorative DisplayCover.





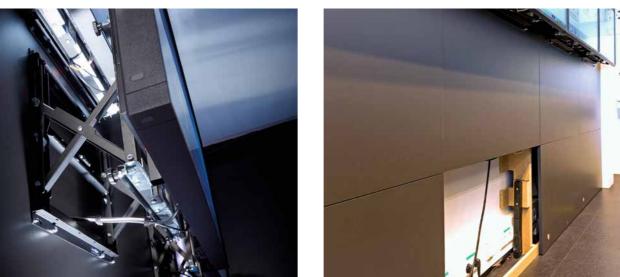
**The DisplayCover designs are as varied as our customers' requirements:** Cupboard systems with wing or sliding doors, drawers with special interiors or integrated loudspeakers – the JST DisplayCover is both attractive and highly practical.

# JST DisplaySuit



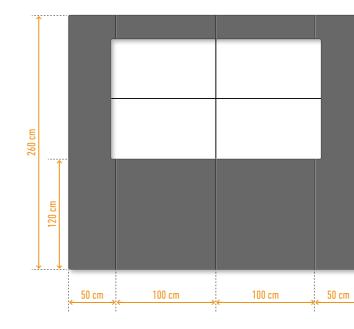
The DisplaySuit: practical, perfectly designed and uniquely finished. The equipment options available will not only be a visual highlight in your control room. The use of the Quick-Out assembly system also sets new standards from a practical viewpoint. Even maintenance during ongoing operation is not a problem.

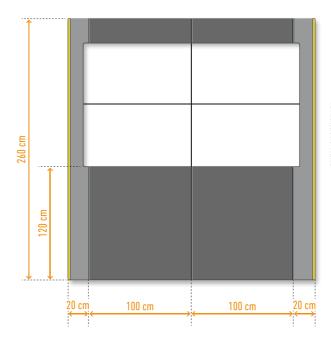


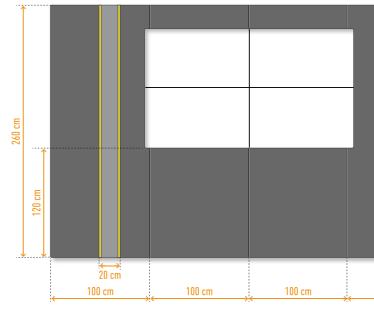


**The Quick-Out assembly system** means that individual displays can be easily pushed forward just be pressing lightly on the outer edges – even in ongoing operation. In addition, there is a technical compartment behind every large-format display. This means that the displays can rest directly on the panels of the DisplaySuit

**DisplaySuit panels:** A successful solution visually – easily accessible wall panels under the large-format displays create a perfect first impression when closed. The panels can be easily removed without tools to reveal concealed connection.



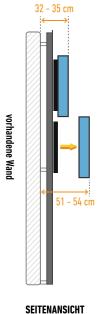




### Option A

without alarm light







#### **Option B**

with alarm light and narrow wall cover



#### Option C

with alarm light and broad wall cover



# AlarmLight

AlarmLight for DisplaySuit: An unlimited range of colours – visually and technically a real "bright spot" in your control room!



#### **Need more information?**

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or visit our website: www.jungmann.de



Only JST DisplayWalls and the Stratos X11 control room desk have interfaces to the event-controlled alarm system! The advantage for you: Showing the most important alarms at the required time, at the right place and in the most effective size. This is what turns the DisplayWall into a reliable information hub, on which no alarm can be accidentally missed.

The AlarmLight light band is located in the stainless steel strips on the left and right of the large-format screen; it can also be integrated into the back wall of the Stratos operator desk. **The focus of the control room team is directly straight to critical alarms** by event-controlled light signals via your monitoring or process control system.

$\oslash$	Shorter response times
$\oslash$	Attracts the team's attention more effectively w
$\oslash$	No alarm can be missed
$\oslash$	Better visibility during minimally manned shif
$\odot$	Simple connection to your monitoring tools

The choice is yours: Either you opt for a preprogrammed colour spectrum or you set the AlarmLight manually to suit your needs using the remote operation facility. The aim is to **ensure the operator's level of concentration is always high**. The pleasant ambient lighting around the work station plays a major role in this – especially during darker working hours.





**Example 1:** Your monitoring or process control system issues a warning which is forwarded to the AlarmLight. The AlarmLight changes the colour to yellow.



**Example 2:** Your monitoring or process control system reports a critical issue which is forwarded to the AlarmLight. The AlarmLight pulsates in red.



**AlarmLight:** An LED-RGB light band is located on the Stratos back wall above the monitors.

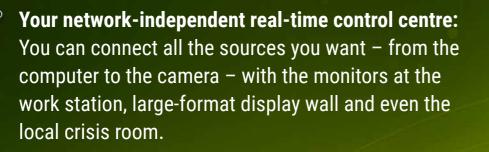
**BACKGROUND:** It has been proved that event-controlled light signals are perceived more effectively by the entire team than a piece of information on a monitor.

The AlarmLight is controlled by your monitoring or process control system so that the colour can be changed depending on the event. The flashing and pulsing of the AlarmLight can also be individually adjusted.

#### with critical alarms

#### S

# MultiConsoling® the operator's hand



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or visit our website: www.jungmann.de

MultiConsoling<sup>®</sup> combines the features of a graphic controller with the advantages of a **fail-safe matrix system** and guarantees highly available controlling of your video wall.

With the **myGUI® user interface**, every operator will have control of the large display and work stations well in hand in just four minutes!

#### MultiConsoling® developed by JST

Once you've got to know this fast, totally flexible working method, you'll never want to do without it again. The combination of the **"MultiCenter" hardware component** and the unique **myGUI® software** provides every function you need for optimum control room operation.



#### └─◎ The hardware component:

All computers are connected, with keyboard, mouse, monitor and sound card if provided, to the "heart" of the JST MultiConsoling<sup>®</sup> – the MultiCenter. Cameras and TV receivers can also be linked with the Multi-Center.

The MultiCenter comes with the MultiConsoling<sup>®</sup> API so that it can be controlled by the myGUI<sup>®</sup> software. The MultiCenter is thus fully tuned to all sorts of different working methods in the control room.

$\oslash$	Fast: Imaging and keyboard/mouse opera- tion in eal time
$\oslash$	Secure: Transmission without network
$\oslash$	<b>Flexible:</b> No additional software on your source computers, immediate implementation
$\oslash$	<b>A safe investment:</b> Totally independent of the operating system of the source computers
$\oslash$	<b>Scalable:</b> Display on operator station moni- tors and on DisplayWalls for the entire control room team
$\oslash$	<b>Free seating:</b> The operator can swap work stations in just a few seconds



#### └─◎ The software component:

The crucial hub of a MultiConsoling<sup>®</sup> system is the **myGUI<sup>®</sup> graphical user interface.** 

This can either be displayed on a work station monitor or on the **innovative CommandPad**, a concept developed exclusively by the JST ideas factory. With the CommandPad, staff can keep a constant eye on even the most complex control room technology using the graphical user interface.

# **Practical examples**

## JST MultiConsoling<sup>®</sup> concept:

MultiCenter in the technology room myGUI®-Software in the control room  $\odot$  $\bigcirc$ 











Mouse operating

......

Touch operating

Timer



RCK







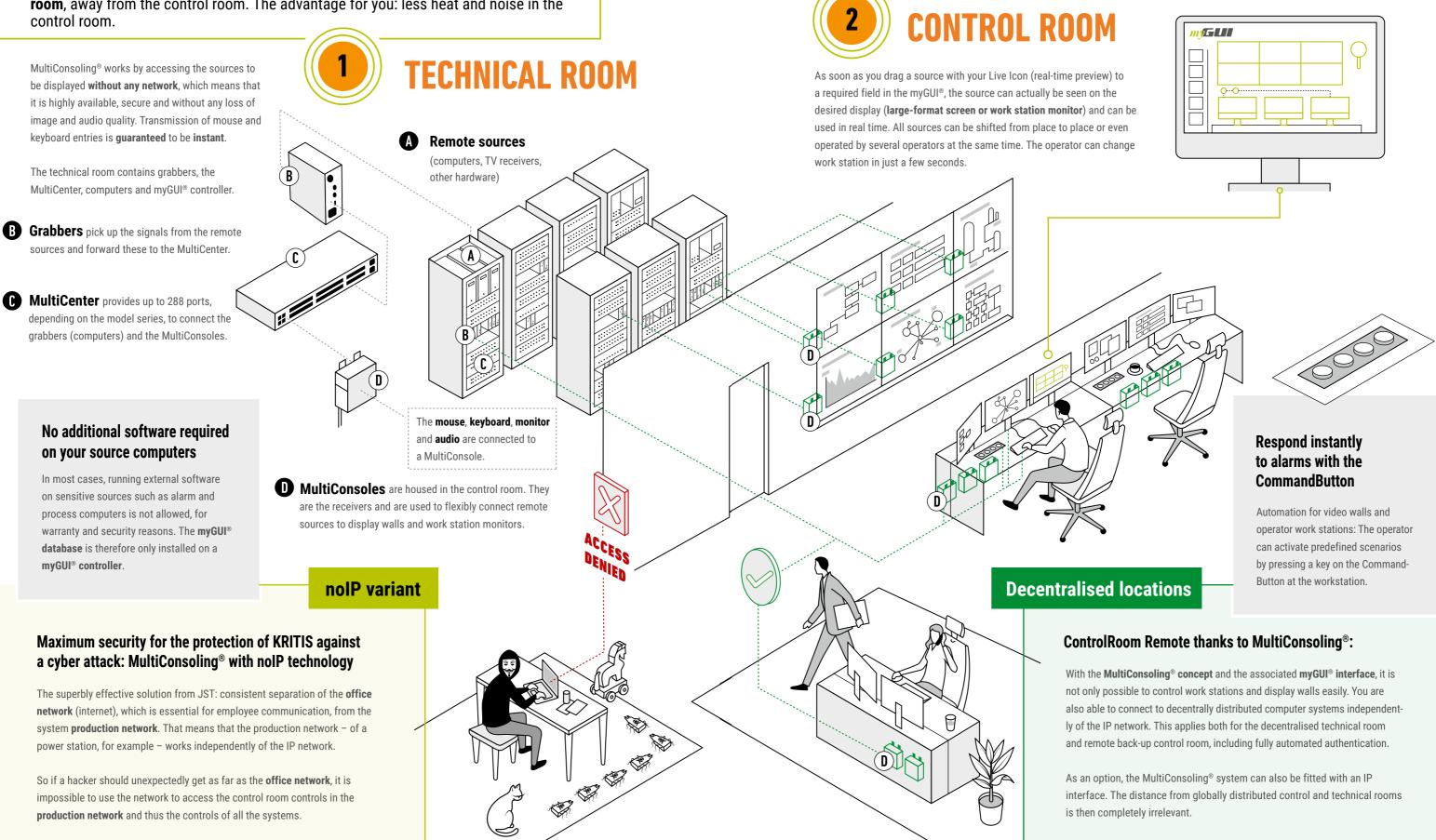
\*Automated, for example using PixelDetection®, traps, I/O contacts, external alarm tools



## Work station and large screen control with MultiConsoling®

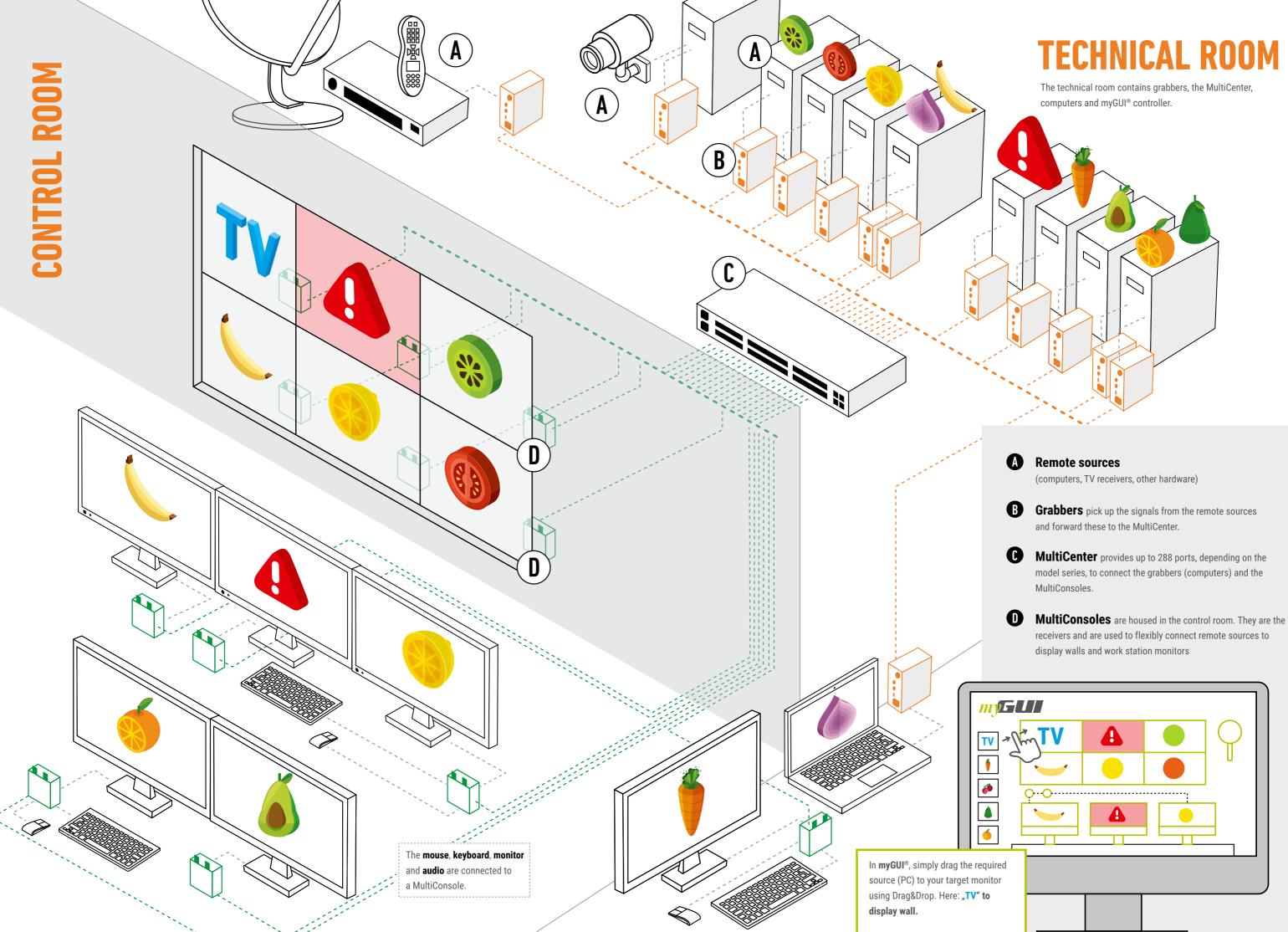
#### 1. The hardware components of MultiConsoling<sup>®</sup>

All sources (e.g. computers, cameras, SAT receivers, etc.) are installed in a technical room, away from the control room. The advantage for you: less heat and noise in the



#### 2. The software component of MultiConsoling®

All the computer signals in the technical room (keyboards, mice, monitors and audio signals) are brought together in the **MultiCenter** and forwarded in real time to the **multiconsoles** at work stations and display walls. All the computer signals, multiconsoles and display walls are displayed in the **myGUI®** software in the individual 3D layout of your control room. Operation is intuitive, with major advantages for your staff especially in stress situations.

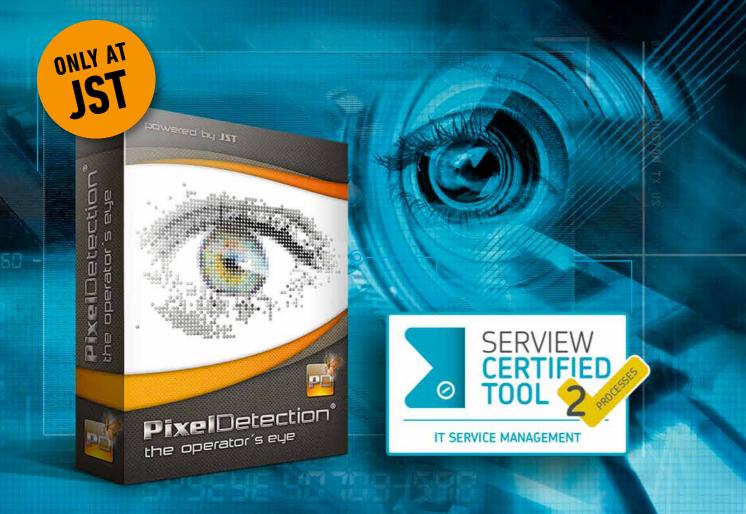


# **TECHNICAL ROOM**

receivers and are used to flexibly connect remote sources to

# **PixelDetection**<sup>®</sup> the operator's eye

PixelDetection<sup>®</sup>, "the operator's eye", supports operators if too many surveillance monitors are superimposed on the work station. Tried and tested for many years: PixelDetection<sup>®</sup> shortens the response times with critical alarms.



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#### PixelDetection<sup>®</sup>, the Operator's Eye

In the past, many operators referred to the Pixel-Detection<sup>®</sup> software as **"the operator's eye"**. And indeed,

PixelDetection<sup>®</sup> works on the same principle as an operator in a control station. He always needs to keep an eye on his surveillance monitors. **PixelDetection<sup>®</sup> films (monitors) the content of the desired monitors and compares the recording with reference values** that you have defined beforehand. These reference values are defined colours or texts in your applications.

Operating the PixelDetection® software is easy:

You mark the areas that are to be monitored with one or several frames. The areas within the frames are monitored by PixelDetection<sup>®</sup> for changes in colour or text. You can also draw a frame around the entire screen if you don't know where an alarm is likely to appear. As soon as the preset reference value is reached, an alarm is triggered on the display board or at the work station.

**Four good reasons** for choosing the multi-award-winning software from JST:

#### 01 | Supports concentration:

There's no longer any need to watch various green displays, since PixelDetection<sup>®</sup> is event-controlled, and **only notifies the operator** when an alarm appears on the monitoring computer.

#### 02 | Scalable:

The most important alarms are forwarded across locations or for the stand-by team with a screenshot of the alarm situation. In this way, staff can still make the decisions **even if they are not actually in the control room**.







PixelDetection® in use at an Audi IT control station

In contrast to the human eye, PixelDetection<sup>®</sup> can monitor countless screens or computers. There's no need to program or adapt any interfaces, because PixelDetection<sup>®</sup> works on a purely pixel-oriented basis. JST does not need to install any software on the computers to be monitored. We just work with your application's video signal!

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#### 03 | Space-saving:

No need for lots of monitors at the work station and reduction in excessively large DisplayWalls.

#### 04 | Flexible:

You keep your monitoring tools, and do not need ( to coordinate any interfaces or make sure that lots of different protocols are compatible. The resson: **PixelDetection® detects texts and colours solely on a pixel basis**. CockpitView supports you in the effective monitoring of your computers and systems.

# **Cockpit** View the operator's dashboard

ONLY AT

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Call us on 

or visit our website: www.jungmann.de



CockpitView is also called "the operator's dashboard" by its users, since the operator can put together his panel of instruments in the control room exactly as he needs to give an overview. This is what modern system and plant control looks like nowadays. "Fast, secure, flexible and scalable" - these are the four factors that make CockpitView globally unique:

Fast: The most important information at a glance, keyboard and mouse operation in real time **Secure:** Transmission without network Flexible: No additional software on your source computers, immediate implementation

To be able to monitor the IT systems, video cameras, building technology, production equipment, servers, software management systems, etc. in control rooms, all sorts of monitors with different applications are essential. For the operators in the control room, this means keeping a permanent eye on a large number of monitors. Monitoring the host of different applications means that the number of monitors at the work station is increasing. In addition, there are often large display systems, which are actually intended to make things easier for staff; but ultimately, these become an additional display that needs to be watched.

In this way, the amount of data to be monitored on the large display system and the work station is constantly rising, and the point is reached where careful monitoring of all the applications is no longer possible. A recent study by the Federal Institute for Occupational Health and Safety (BAuA) on the subject of "Screen working in control stations" showed that the long-term monitoring of more than three monitors at the work station is not possible without errors.

Put your important data all together on a central Cockpit Monitor. Cut out the relevant information from different computers and group it together in

#### The long-term monitoring of more than three monitors at the work station is not possible without errors.

Results of the recent study by the Federal Institute for Occupational Health and Safety (BAuA) on the subject of "Screen working in control stations"





- Scalable: Display at the work station monitor or on VideoWalls for the entire control room team



CockpitView. It doesn't matter if the computers are working in different network segments. Operate your systems with the keyboard and mouse in real time.

No additional software needs to be installed on any of your computers displayed in the CockpitView monitor. This is what modern system and plant control looks like nowadays!



# mplogim® the operator's security

The **Free-Seating concept** specially developed for control centres allows automated logging in and out using a chip card – without passwords.



#### Need more information?



or visit our website: www.jungmann.de

# More flexibility in your control room with better security – this is what myLogin® offers

**Easy operation** and **transparency** are two important arguments in favur of  $myLogin^{\circledast}$ .

Every staff member has his own card containing individual authorisations. If he leaves his work station, his team colleagues can unlock the computer keyboard and mouse using their own login. **Lightning fast and super-simple.** In this way, a free-seating concept can be combined with maximum security standards if required.

Another very convenient feature of the myLogin<sup>®</sup> technology ensures maximum transparency: **Every login and log out procedure can be tracked completely using the reporting facility**.



#### Fast, flexible & secure

myLogin<sup>®</sup> is a revolutionary solution allowing you to log in and out **at all operator work stations** centrally and quickly using your company ID card.

The login/logout process only takes a few moments and **will also ave your personal screen content layout preferences if you wish.** 

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Red RGB-LED light band: Work station not in use (employee has logged out)

**Green RGB-LED light band:** Work station actively in use (employee is logged in)

Fast: Logging in and out in just a few seconds

**Free seating:** The operator can change work stations and the screen content follows him.

Simple: No software needed on your computers

**Secure:** Collective users & group accounts can continue to be used

Flexible: Use a myLogin<sup>®</sup> user card or your company ID card

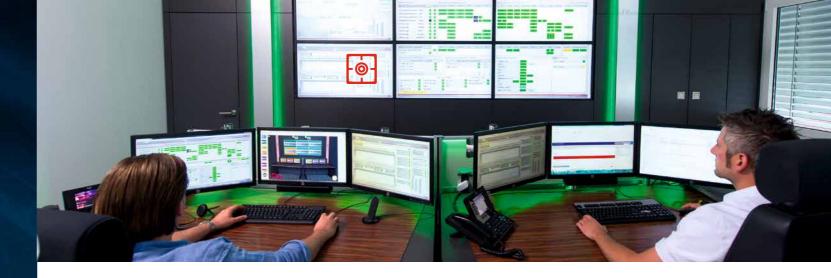
**Logbuch:** Revision-proof evaluation of login data if requied



Maximum usability guaranteed! With an individually adjustable timer, your mouse will always be visible even in the resting position. So no more annoying shaking and searching. The cursor changes into a clearly visible moving icon.







#### Showing the cursor

At a work station with several monitors, it sometimes happens that you no longer know which screen you've left the cursor on. If you also use the proactive large display wall as an active work interface, the search for the mouse can turn out to be pretty tricky – and sometimes the operator will move the mouse roughly backward and forward so that the cursor becomes visible again.

**This is exactly where the MouseRadar can help:** After a variable time, the cursor automatically becomes visible. An animation, which you can configure freely, appears around it. The advantage: The program does not need to be installed on your computer.



#### Need more information?



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**Fast:** No more annoying "shaking the mouse" and searching for the cursor

Secure: No more accidental mouse clicks

Clear: You see the cursor immediately

**Individual:** You can use your own graphics (e.g. company logo)





# **ControlRoom** *Automation* the operator's assistant

With **CommandPad** and **CommandBox**, you can automate routine work and still stay totally in control. You can call up recurring scenarios at the push of a button or let everything run completely automatically, just as you wish.

#### Need more information?

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The CommandBox, which is designed on a redundant basis, is guaranteed to reliably receive and process almost all alarms and to forward them at lightning speed to the display wall and work stations.

The input signals processed include, e.g., floating contacts, audio signals, TCP-IP traps, image data evaluations by PixelDetection<sup>®</sup>, SNMP and many more. In addition, predefined scenarios can be activated by the operator by pressing a key on the CommandPad at the work station.

#### Quickly deal with recurring events or call up pre-defined scenarios at the push of a button

With CommandBox, you can automate routine work and still stay totally in control. You can call up recurring tasks at the push of a button or let everything run completely automatically, just as you wish.

The CommandBox communicates with wire-connected technology (e.g. floating contacts) and with software programs. This means that potentially useful constellations can be created for day-to-day operation – get some advice!



**The CommandBox** acts as the operator's personal assistant. It is responsible for the reliable receipt of all alarms and for their immediate forwarding to the required screens.



$\oslash$	<b>Making work easier:</b> Operators are reliably supported
$\oslash$	<b>Lightning fast:</b> Alarms transferred to work stations and display walls
$\oslash$	<b>Secure:</b> Important alarms will never get lost again
$\oslash$	<b>Teamwork:</b> Systems transferred to large display wall
$\oslash$	Flexible: Almost all input signals are processed
$\oslash$	<b>Situation-related:</b> Complex (alarm) scenarios are also available at the push of a button



**CommandPad:** An activity or the change in colour of the AlarmLights is **triggered by pressing a button**. The CommandPad consists of five or ten buttons. An LED ring around each button shows the operator which image transfer is active. This is particularly helpful with process control or system monitoring displays that look very similar. The buttons are almost flush with the table top of the Stratos Operator Desk. The buttons are labelled individually.

So, for example

- the computer with the myGUI<sup>®</sup> operation could be switched to a previously selected monitor,
- a specified computer could be switched as a Big Picture to a display wall or to different computers as a Single Picture,
- using an SOS button, a specified group of peoples, the IT
  department or the department manager could be informed of the alarm.

# ControlRoom remote the operator's global access

#### **Distances no longer matter!**

Thanks to the MultiConsoling<sup>®</sup>-based systems, you can connect up your decentralised situation centres, crisis rooms, standby teams, etc. really easily. Cross-locational backup scenarios for complete control rooms are also possible!

#### ControlRoom Remote: an elegant solution for integrating decentralised structures, systems and locations

Our MultiConsoling®-based systems Grabber IP and Grabber VM enable you to connect up decentralised systems and locations comprehensively and conveniently. Integrate computers in decentralised technical rooms using Grabber IP or access remote virtual machines using Grabber VM. Connect with a decentralised control station using Grabber IP. The operator can connect up local computers as guickly and conveniently as distant systems, since operation is via our uniform myGUI® graphical user interface.



**Need more information?** 

Call us on +49 4161 993 80 20

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Every system hand-made in Germany

The Stratos X11 control room furniture system for years of use in 24/7 operation.

The professional, modular, robust solution!



Table configurations available in straight and semi-circular layout



Call us on +49 4161 993 80 20

or visit our website: www.jungmann.de

ONLY AT

JST

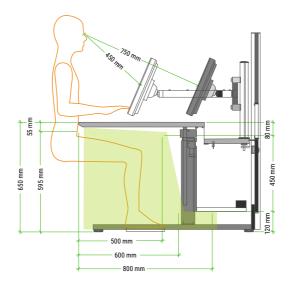


#### **JST Operator Desks: Stratos X11**

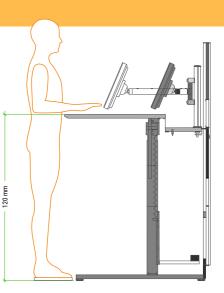
The work stations in control rooms have to face some tough demands when it comes to technology installation, ergonomics, stability and durability. This is exactly where the Stratos X11 sets new standards, making it the absolute no. 1. Stratos X11 is the professional, modular, robust solution for furnishing your control centre, control room and control station. At this point, we would like to present just the most important product features:

Outstanding quality and durability for robust use in industri- $\bigcirc$ al control centres and control rooms Optional motorised stand-sit height adjustment  $(\checkmark)$ Large illuminated technology area with unrestricted  $\bigcirc$ legroom Large foot garage for maximum comfort at the work station  $(\checkmark)$ Integrated dazzle-free lighting system (√) Sturdy table edge – prevents damage

> Legislators study screen work in control centres: Because it has been active for many years in planning control rooms, JST has a wealth of experience and understands the operators' work particularly well. For this reason, JST supported the Federal Institute for Occupational Health and Safety in its study of "Screen working in control stations". Now you can make use of this expertise to plan your own control room in line with the highest technical and ergonomic standards.









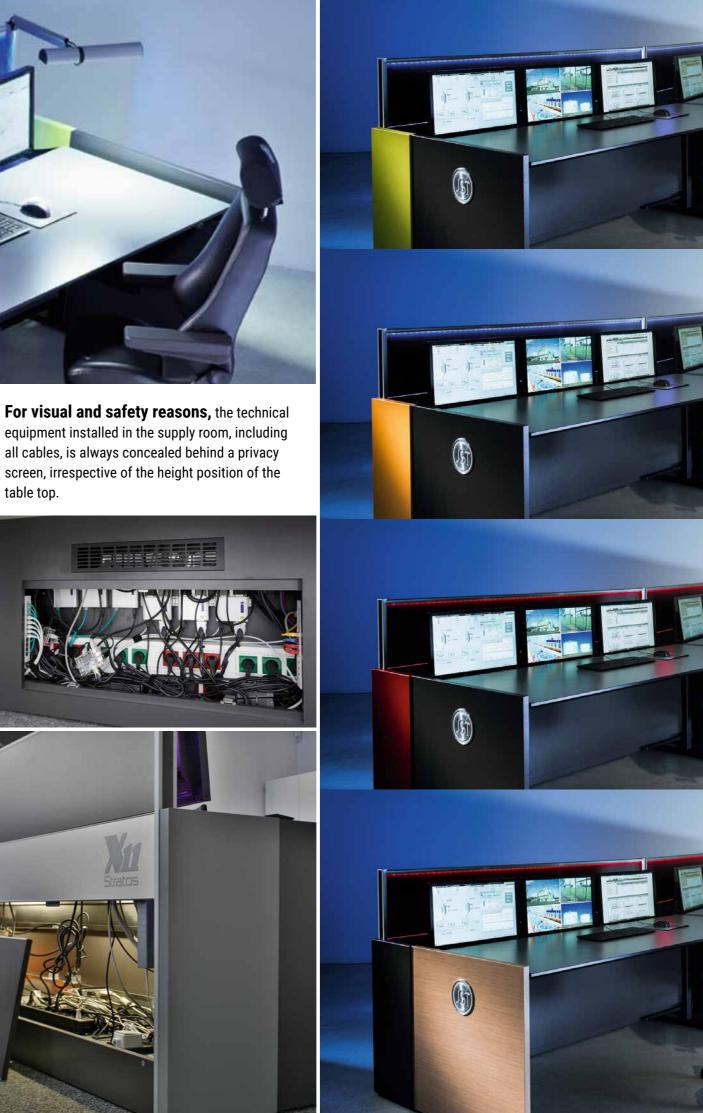


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Example: Stratos X11 control room desks in a convex layout with two work stations – made from highly resistant materials specially for the tougher conditions in control rooms.

Height adjustment: When it comes to the health of your workforce. The entire unit can be freely moved to the best sitting or standing height using an electric motor. The height adjustment range is between 65 and 125 cm, as specified in DIN EN 527-1.

equipment installed in the supply room, including all cables, is always concealed behind a privacy screen, irrespective of the height position of the table top.





www

# RECARO24 the operator's chair

Headrests that can be adjusted in height and angle of inclination for relaxed working. Optional: interchangeable washable headrest covers for shift operation (hygiene)

Angle of backrest can be adjusted using handwheel on both sides

Individually adjustable lumbar spine support. Use of high-strength materials for the frame and cover (decades of experience in the design and manufacture of high-quality vehicle seats)

No.

tested to maximum load

larger thigh rest

Armrests can be folded up, adjustable angle of inclination and

Optional seat area extension for

Pump (Airmatic<sup>®</sup>) for pumping up air cushoin in lumbar

spine area.

**Need more information?** Call us on



or visit our website: www.jungmann.de



\*Also in 24/7 operation

MONTHS

WARRANTY\*

#### The ultimate Recaro operator's chair for 24/7 use in the control room

RECARO 24 - the operator's chair that adapts to you. Ideal for 24-hour use in the control room and control station. Because people who spend several hours at a time sitting down and still need to stay physically and psychologically fit make very tough demands on their chairs.



$\oslash$	Specially made for 24/7 use
$\oslash$	Seat height adjustment with pneumatic spring
$\oslash$	Very comfortable seat because of firm upholst
$\oslash$	<b>Synchronised setting:</b> individual weight adjustr facility (approx. 60 –130 kg, optional up to 200
$\oslash$	<b>Tested to British Standard</b> expressly for control centre chairs in 24-hour use (by LGA Bayern)









# Almedia conference-system

Leading furniture designers have designed this multipurpose table **exclusively for JST**. The combination of shape, colours and materials produces durability plus timeless design.

The AllMedia is vastly superior to traditional conference tables. The reason? The integrated MultiConsoling® system, through which all sources (such as computers, cameras and television) can be immediately accessed and operated on monitors, large-format displays and projectors.



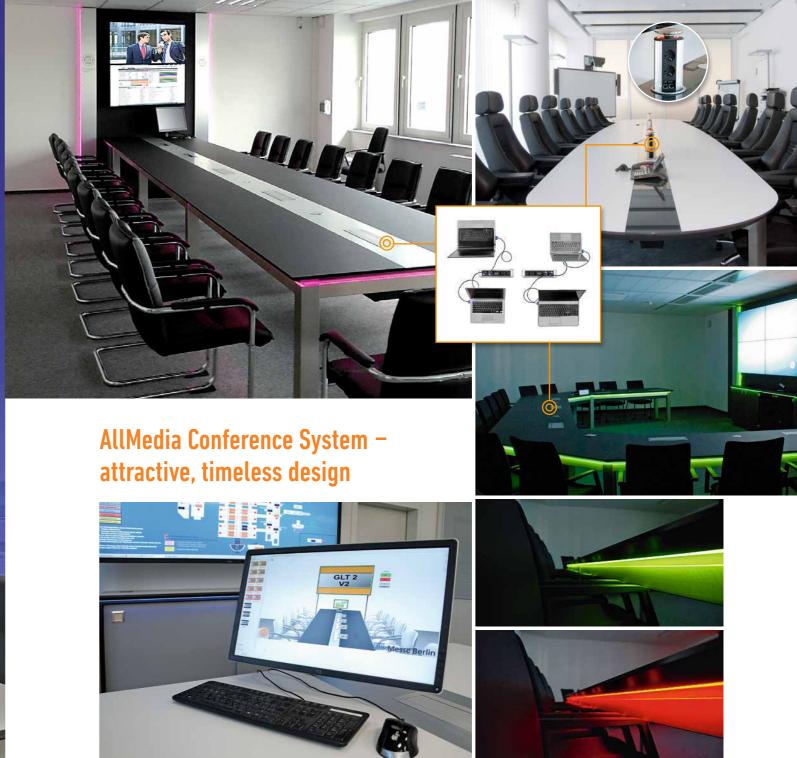
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#### **Conference tables for:**

- Situation centres
- Deployment centres
- Crisis teams
- Restart rooms
- High-quality meeting rooms
- Training rooms





Flexible thanks to MultiConsoling®: The MultiConsoling® system integrated in the AllMedia system means that every source – TV, notebook, workstation or DVD player – is available immediately everywhere, even in different rooms or locations.

Secure: Even occasional visitors to the conference room can operate the MultiConsoling<sup>®</sup> system quickly and intuitively, without previous training.

A safe investment: Even the most complex technology can be integrated without compromise and is prepared for future changes.

Expertise from one source: DisplayWalls (large-format systems) can also be combined visually and technically using the AllMedia concept. JST can install the right DisplayWall at the same time.

AlarmLight – the event-controlled light signal: This system dramatically increases the level of attention to critical alarms.

# Control Room Furniture

Whether it's a crisis/conference table, sideboard, display wall cover or cupboards – we'll take care of all of it!





#### Elegant coverings for display walls and clean installation

We cover your display wall system to go with the room furnishings. The cover can also be supplied in an acoustic version if required. This means that noises from the large-format display will not reach the control room. In addition, the noise level in the entire control room is lowered.



#### **Need more information?**

Call us on



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or visit our website: www.jungmann.de

#### **Control centre furniture to match your corporate design**

The **Stratos X11 Control Room Furniture System** is the professional, modular, robust solution for furnishing your control centre, control room and control station. We can furnish your control room and your meeting room in your own individual corporate design.

#### Wall cupboards

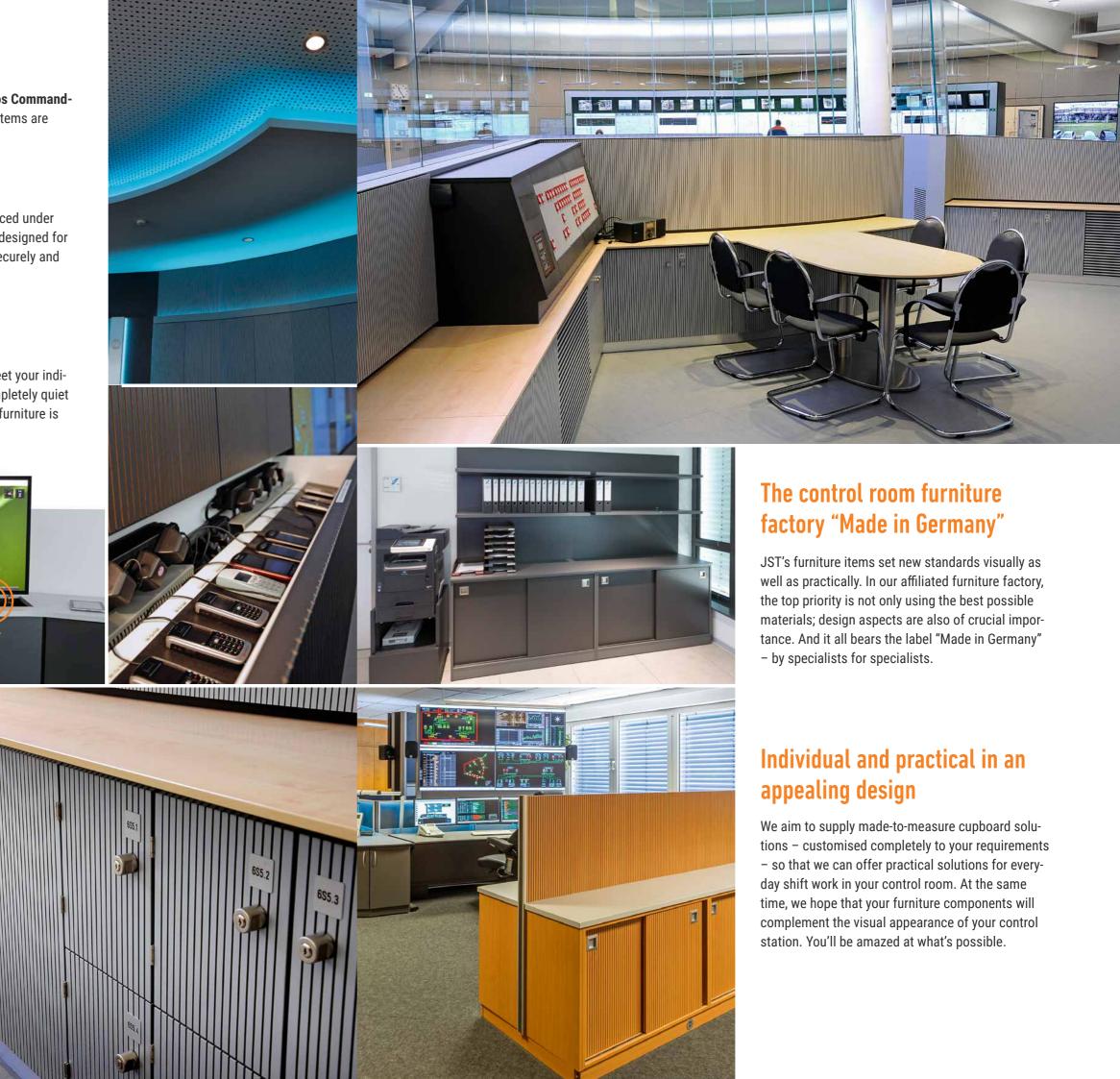
The wall cupboards are adapted to the design of your Stratos Command-Desk. The functions and interior fittings of the cupboard systems are planned individually for you.

#### **Storage lockers**

The storage lockers hold lockable drawers which can be placed under the table top of the Stratos CommandDesk. The lockers are designed for shift workers so that every can access the personal items securely and quickly right at the work station.

#### **Functional furniture**

We provide your control room with functional furniture to meet your individual requirements. What makes it special: To create a completely quiet working atmosphere, not just the wall surfaces but also the furniture is clad with sound-absorbent material.



## **PSM: Proactive System Monitoring**

Your new control room houses all sorts of equipment: displays<sup>(1)</sup>, MultiCenters, MultiConsoles, grabbers, myGUI® controllers, CommandBoxes, redundancy/backup modules and more ...

#### How can this control room technology be effectively monitored?

# **PSM works simply and efficiently:**

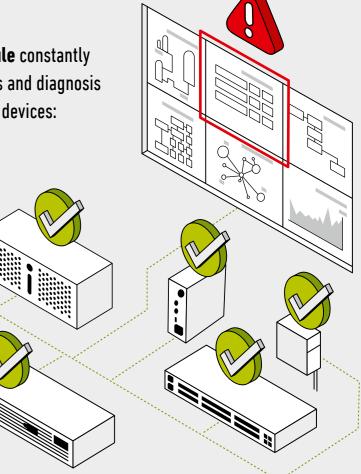
myGUI® software with optional PSM module<sup>(2</sup> is connected 1 to the devices in your control room. The PSM module constantly checks the status and diagnosis data of all devices: 2 PSM sends the information about the faulty device in real time to your server. This in turn forwards the information to the **JST server**<sup>(3</sup>. PSM interprets the data and, if necessary, 3 triggers actions which have been defined in advance. JST Service takes action!

#### We think of everything and have the right answers!

Our professional **PSM system** can monitor all your control room technology – **proactively!** We can discover defects, irregularities and wear **before** any faults arise, and can take the necessary measures.

#### **Need more information?** +49 4161 993 80 20

1) Possible with most displays, depending on model type, 2) Available from myGUI Version 3.0, rev. 1,350 3) If no data transfer to JST is required, the PSM server can also be installed "on premises" at the customer location. Monitoring is then carried out by the custome





# $\square PALX11$ **OPERATOR ACOUSTICS LIGHT**

The creative, practical solution for improving noise levels and lighting in your control station - attractively and effectively!

2

#### **Need more information?**

Call us on



IST

or visit our website!

#### **OPAL X11** – a new level for the operator work station

Extensive, clearly structured spaces, a clean atmosphere and, usually, high reinforced concrete ceilings - the classic picture of a modern control room. What often makes this concept problematic in reality is the level of noise. JST has picked up the challenge of finding an alternative to the costly option of using a complete acoustic ceiling: "OPAL X11" is a component that takes the operator work station to a new level.

In close collaboration with experts in the fields of spatial acoustics and lighting design, the control room specialists have developed the "Operator Acoustics Light - OPAL X11", a ceiling sail that is adapted spatially to the operator desk and is attractive in more ways than one.

OPAL not only effectively lowers the noise level. An integrated HCL (human centric lighting) light source, i.e. a form of illumination that takes into account the visual, emotional and biological effects of the light, and the colour values of which affect concentration and performance, makes this system uniquely attractive particularly for shift work in control stations.

A further advantage of the system: OPAL is linked with the JST myGUI®. That means that, in the case of an incident, the integrated **AlarmLight** is illuminated or flashes, depending on how it has been preset. The operator's attention is drawn to an event, not just visually but also via an integrated audio component.

$\oslash$	Easy installation and manageable budget
$\odot$	Insulation material with absorption of αw 0.80, i.e <b>80 percent of spoken noise is absorbed</b>
$\oslash$	Flexible design options to suit individual needs
$\oslash$	Integrated HCL (human centric lighting) improves concentration and performance
$\oslash$	Developed on the basis of <b>occupational health</b> <b>requirements</b> for shift operation in control rooms
$\oslash$	Integration of visual and acoustic <b>alarm systems</b> (including third party systems)



#### The advantage for the operator

The OPAL X11 ceiling sail gives clear added value to the operator's work station. Alongside sound absorption and the individual adjustment of the lighting, the element has another advantage: The integrated audio system can be activated both via the myGUI® cabling and also, as an option, via Bluetooth

#### Knowing what's coming

i.e.

Thanks to the professional software, the effectiveness of the Operator Acoustics Light can be determined before installation. It is thus possible to define beforehand what improvements in room acoustics will be achieved, i.e. how high the absorption will be before and after installation of the ceiling sail.

#### FREE

# **Online control room analysis –** how fit is your control station?

Would you be interested in finding out the improvement potential of your control room and making best use of your resources and opportunities? JST offers free advice and analysis for your control room, control station, control centre and control point.

$\oslash$	How do you assess the <b>room conditions</b> ?
$\odot$	What <b>ergonomic requirements</b> do the work stations meet?
$\bigcirc$	What technical equipment for the work station do you use?

- How do you rate ease of operation? (~)
- ... and lots more aspects of your control room (~)



#### Are you interested?

Then request your personal, free access code now! Please tick "Free Potential Analysis" in the contact form!

www.jungmann.de/kontakt

# CONTROL ROOM SINULATOR

#### Experience tomorrow's work station standards today:

innovative large-format screen systems and their control, MultiConsoling<sup>®</sup>, PixelDetection<sup>®</sup>, CockpitView, Stratos X11, intuitive touch-screen operation, the latest security concepts, interactive conference table, creative lighting design, acoustic concepts, etc.

# Having a vision of the future is good. Experiencing it is better!

**Everything is waiting for your orders!** Connect up your own PC or laptop (plug & play) and enjoy the convenience of our display walls. Important: We guarantee not to install any software on your computer! Naturally, you can also easily bring a JPG or TIFF file with your original screen resolution of one or several screenshots of your management and alarm tools. In that way, we can show your applications on the display wall, taking into account various resolutions, monitoring distances and viewing angles.

# Book a "test drive"!

Visiting the control room simulator **costs nothing**. Please book in advance.



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# Come with us on an exciting trip into the world of cutting-edge technology.

#### Let's take a look at large screens.

We offer a glimpse of the future and a chance to look closely at the latest large-screen technology. From the interactive Multi Touch Screen to the DisplayWall, you can expect the highest standards of technology, including software. Our JST-PixelDetection® software provides automatic alarm switching to the display wall.

The alarm and management tools that you use are only shown if they need your attention, response times are dramatically reduced.

#### Enjoy your new freedom.

In the CONTROL ROOM SIMULATOR, you can actively test the flexible MultiConsoling<sup>®</sup> work station switching system for yourself and experience the advantages in practice. This offers benefits at every work station, because with MultiConsoling<sup>®</sup> fewer screens are needed, operators can choose where they sit and team work is promoted. In addition, the computers are safely housed in a separate, air-conditioned technical room. This is ideal for the working climate, as less heat and noise are produced in the control room.

#### **Discover unimagined convenience**

Test special control room furniture, such as the Stratos X11 control room desk or operator chairs for continuous 24/7 use, acoustic display wall covers, ConferenceDesk with a range of PC connection interfaces, Meetingpoint and much more.. **Guides**, checklists, practical examples, solutions, and specialist articles on setting up your control room, control station, control centre and control point

WE'RE HAPPY TO SEND IT TO YOU BY POST! ORDER IT NOW



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DAS ORIGINAL



Geballte Fachkompetenz aus **30 Jahren** Praxis



Ratgeber, Checklisten, Praxisbeispiele, Lösungen, und Fachartikel zur Einrichtung von Kontrollraum, Leitstand, Leitwarte und Leitstelle