rdi | room dimen sions

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Roomdimensions Iberica, RDI, is a company expert in infrastructure development and provision of added-value solutions for 24x7 operations environments, focusing its activity in the execution of turnkey projects and technology consultancy:

- Control & command centers
- Crisis Room & conference environments
- Emergency centers

- Meeting rooms
- High-tech environments
- 24x7 corporative environments

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Roomdimensions Iberica operates through strategic partnerships and business collaborations with local players, within a vast international market, stretching from Europe to Middle East and South America, spanning multiple sectors focused on 24x7 operations environments.

MARKETS

|		
Australia	Malaysia	Spain
Bahrain	Mexico	Sudan
Côte d'Ivoire	Portugal	Turkey
Israel	Qatar	United Arab Emirates
Kuwait	Russia	
Lithuania	Saudi Arabia	

international
presence

sectors

RAILWAY

TRAFFIC

TRANSPORT

SECURITY

INDUSTRY

UTILITIES (gas, water, electricity)

PORTS AUTHORITIES

TELECOM

PUBLIC ADMINISTARTION

CHEMICAL

SCIENCE & TECHNOLOGY

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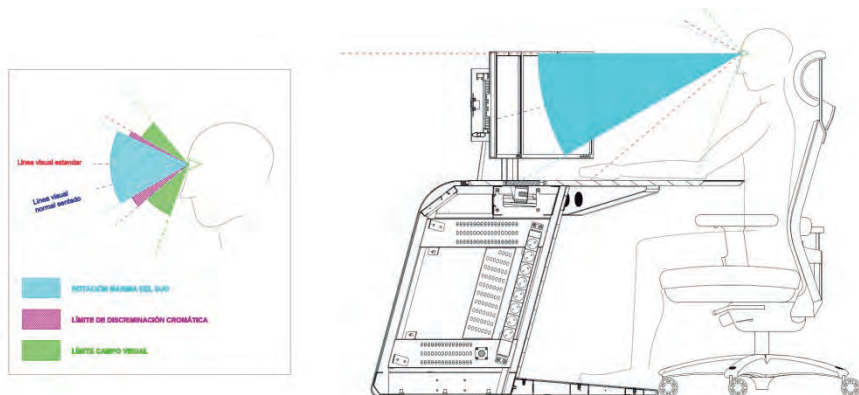
Los monitores caen dentro del área de rotación máxima del ojo lo que es adecuado para la visualización de los sistemas
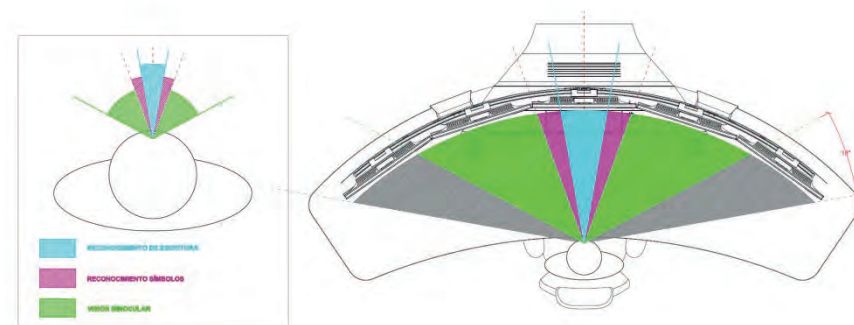
Los monitores caen dentro del campo de visión biocular. Se garantiza una visión total con un giro de cabeza de 18°.

UNE-EN ISO 11064
(Ergonomic Design for Control Centers).

Define all the standards to follow inside a 24x7 environments or the rules to take into account at the moment to design a Command Center.

FNEW 83-269E
Performance test method for intensive products.

REA Aproval
Certification like an aproved company to offer turnkey solutions.

ISO 9001
Under process

certificates

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Facilities well prepared to manufacture technical furniture for control room.

▼

High-tech tools to guarantee high quality products and solutions.

▼

3500 Square meter facilities & wharehouse to assembly prototypes & organize all the logistics.

Almost all quality improvement comes via simplification of design, manufacturing... layout, processes, and procedures.

facilities

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TECHNICAL FURNITURE

ERGONOMICS

▶ T-LINE

▶ CRAE

▶ KOMPAS

▶ MONITOR ARMS

▶ LAN

▶ V-CONCEPT

▶ TOTEM AV

▶ SEATING

▶ MEETING SOLUTIONS

▶ HUDDLE

▶ SPECIAL CONSOLES

▶ TASK LIGHTING

products

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HI TECH SOLUTIONS

▶ 4YC   ▶ AV SOLUTIONS   ▶ ELECTRONIS CREENS

products

technical furniture

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T-LINE

✓ Totem structure with movable shelf or standard 19" mounts.

✓ Access to the consoles structure through doors and covers to manage cabling and all the elements.

✓ Monitor structure with horizontal aluminium rail to move brackets horizontally and space for extra equipment

✓ Console design improves operator position & free movement of feet.

✓ Compartments under the worksurface to store keyboard, mouse or office supplies.

MEIP
(MONITOR EQUIPMENT INTEGRATION PANEL)

ON-BOARD CONNECTIVITY

WIRELESS CHARGE

REAR DOORS
ACCESS TO THE EQUIPMENT ZONES

PERSONAL STORAGE

EQUIPMENT ZONE

FOOT REST

EMERGENCY LIGHTING SYSTEM

FRONT DOOR
ACCESS TO THE CABLING ZONE

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CRAE console

REAR COVER
ACCESS TO THE SOCKETS
AND THE CABLE DUCT

**FLEXIBLE MONITOR
INTEGRATION**

REAR DOORS
ACCESS TO THE
EQUIPMENT ZONES

**CONNECTIVITY
SPOTS**

**SLIDING
COVER**

FRONT DOOR
ACCESS TO THE
CABLING ZONE

**EMERGENCY
LIGHTING SYSTEM**

Design
✓ Worksurface divided in 3 parts.
✓ Front & rear doors perforated HPL manufactured.
✓ Easy modularity.
✓ Led lighting and customizable side cover.

Equipment & infrastructure
✓ Closed structure for electronics & PC's location.
✓ Sliding back shelf for PC's.

Wiring management
✓ Back cover on table board to access cable duct.
✓ Sliding side easy open for installation or maintenace.
✓ Keylock in doors and back cover.

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Kompas
CONSOLE

- ✓ Great formal simplicity.

- ✓ Functional arc as a structural element that distributes the wiring and locates sockets for power, data & voice.

- ✓ The rail system allows the placing of the monitor/s all along the workpost.

- ✓ Allows endless types of configurations & finishes.

- ✓ Perfect organization of all the electronics & AV equipment.
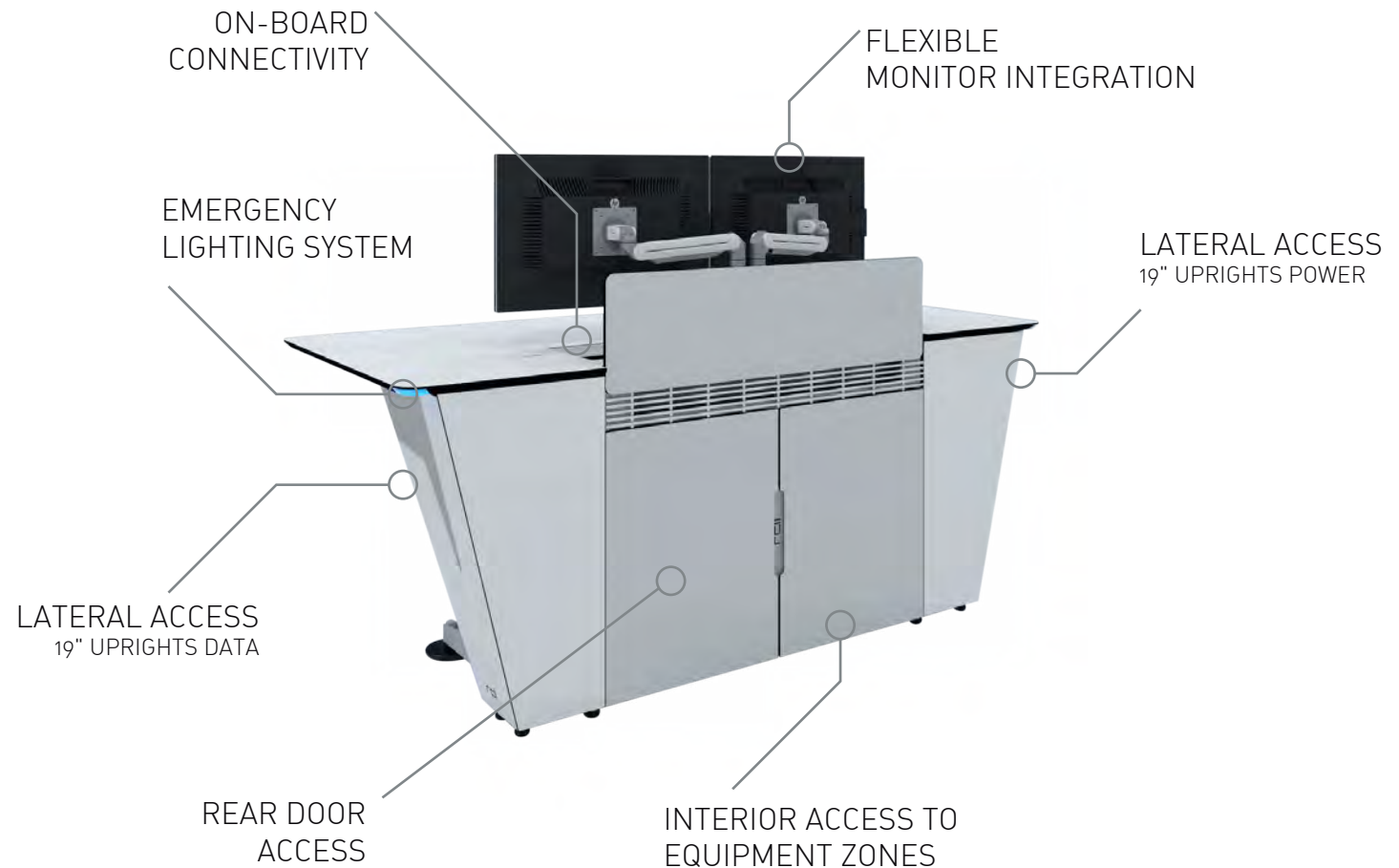
- ✓ Rear compartment to house all the elecronic equipment.

REAR COVER
ACCESS TO THE SOCKETS
AND THE CABLE DUCT

RAIL SUPPORT
SYSTEM

FUNCTIONAL
ARC

ACCES TO INTERIOR
FUNCTIONAL ARC

CONNECTIVITY
SPOTS

COMPARTMENT
INTEGRATION

EMERGENCY
LIGHTING SYSTEM

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LAN console

- ✓ High capacity.
- ✓ The structural feet of the console houses itself all the required equipment.
- ✓ Multiple configurations and finishes considering required equipment & systems.
- ✓ Device Support System.
- ✓ Strong industrial character.
- ✓ Connectivity: easy to customize voice, data & power sockets in different áreas of the workstation optimizing security.
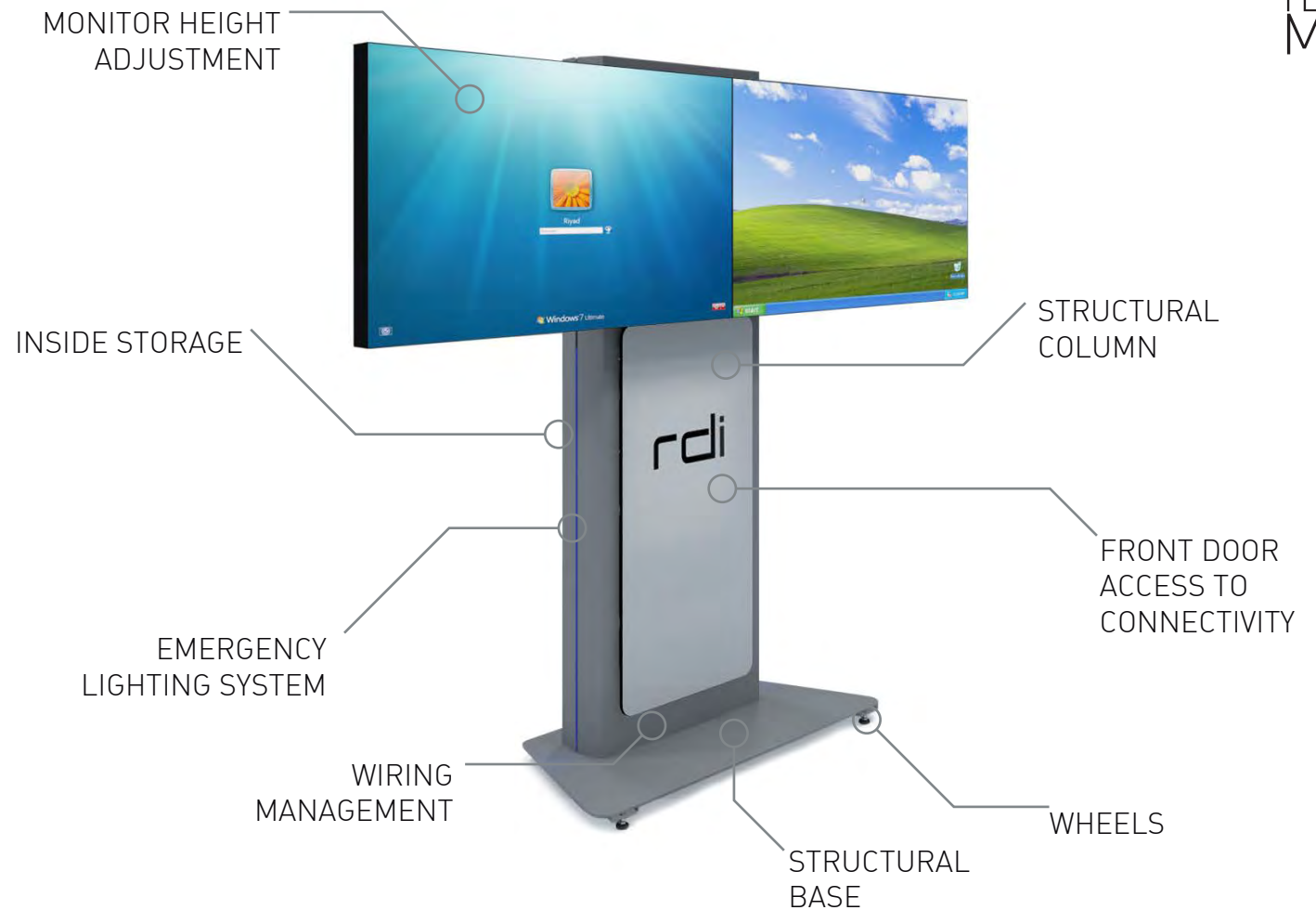- ✓ Space for personal storage.

CONNECTIVITY SPOTS

BLOCKED SYSTEM DSS

FLEXIBLE MONITOR SYSTEM

PERSONAL STORAGE

COMPARTMENT FOR EQUIPMENT

DEVICE SUPPORT SYSTEM

EMERGENCY LIGHTING SYSTEM

REMOVABLE COVER
19" UPRIGHTS DATA & POWER

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V-CONCEPT

✓ Clean design lines with HPL covers around the structure.

✓ Two main connectivity areas: Table board zone for the operator and sides of operators for equipment

✓ Easy modularity that maximaze the creation of multiple workposts with full cabling communication.

✓ Working area with back panel and cover that helps create specific space for each operator.

✓ Easy and flexible monitor placing insde the cable duct.

ON-BOARD CONNECTIVITY

FLEXIBLE MONITOR INTEGRATION

EMERGENCY LIGHTING SYSTEM

LATERAL ACCESS
19" UPRIGHTS POWER

LATERAL ACCESS
19" UPRIGHTS DATA

REAR DOOR ACCESS

INTERIOR ACCESS TO EQUIPMENT ZONES

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AV TOTEM

✓ Ideal for limited spaces as a substitute of the classic VideoWall.

✓ The 1x1 and 2x1 version with wheels facilitate even more its mobility.

✓ Space destined to house electronic devices on the lowest part with front door access.

✓ Easy adaptation of any kind of monitor size thanks to the VESA support system.

✓ The wiring is completely hidden inside the structure.

MONITOR HEIGHT ADJUSTMENT

INSIDE STORAGE

STRUCTURAL COLUMN

FRONT DOOR ACCESS TO CONNECTIVITY

EMERGENCY LIGHTING SYSTEM

WIRING MANAGEMENT

STRUCTURAL BASE

WHEELS

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MEETING
SOLUTIONS

✓ Specially designed for the organization of emergency & crisis environments which require audiovisual solutions.

✓ Multiple choices on number of users.

✓ Allows integration of electronic equipment in its interior.

✓ Perfect organization and distribution of the structured wiring.

✓ Wave shape in one of the sides.

POP-UP MONITOR
INTEGRATION

CONNECTIVITY
UNIT

EMERGENCY
LIGHTING
SYSTEM

REMOVABLE COVER
TO MANAGEMENT

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MEETING
SOLUTIONS

✓ Specially designed for the organization of emergency & crisis environments which require audiovisual solutions.

✓ Multiple choices on number of users.

✓ Allows integration of electronic equipment in its interior.

✓ Perfect organization and distribution of the structured wiring.

EMERGENCY
LIGHTING SYSTEM

CONNECTIVITY
UNIT

INTERNAL COVER
TO MANAGEMENT

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MEETING SOLUTIONS
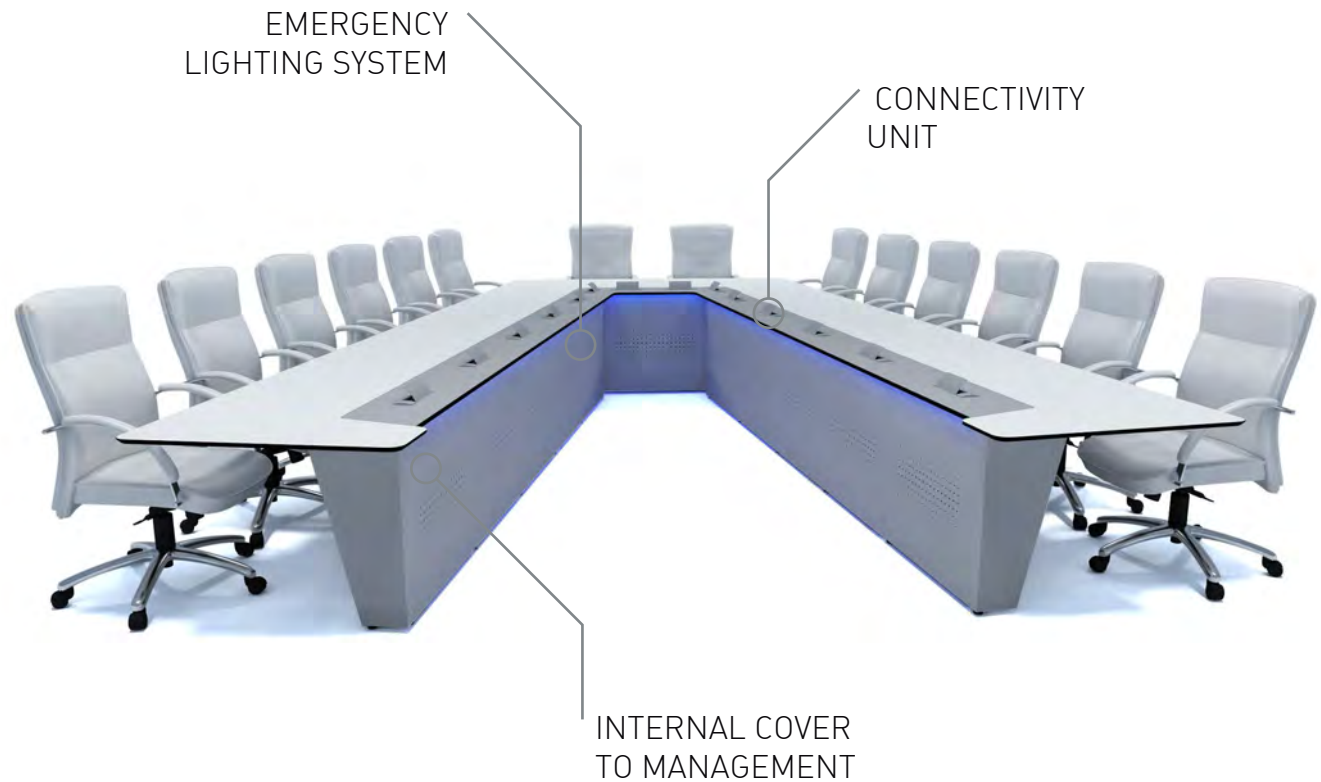
✓ Table equipped with a central unit that contains power & data connectors.

✓ The cable duct manages all the wiring from the surface to the compartments.

✓ Electronic compartment destined to house the computer equipment being accessible from the front and back.

✓ The structure itself serves for housing small electronic equipment.

✓ Decorative led lighting applied on each corner of the table board

CENTRAL UNIT WITH POWER & DATA CONNECTORS

CABLE DUCT MANAGES ALL THE WIRING FROM THE SURFACE TO THE COMPARTMENTS

EMERGENCY LIGHTING SYSTEM

SPACE FOR SMALL ELECTRONIC EQUIPMENT

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MEETING
SOLUTIONS
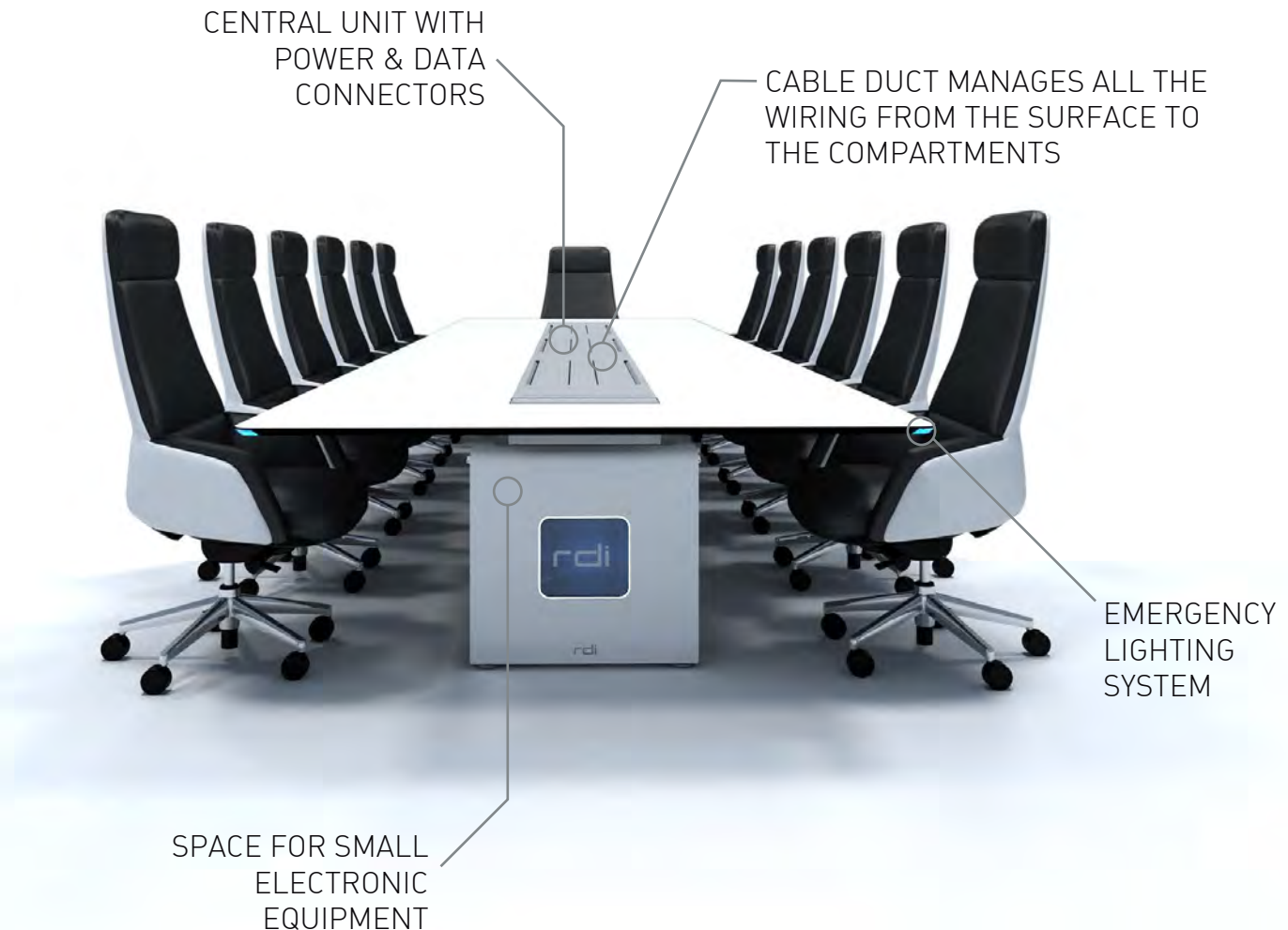
✓ Central cover fully removable for managing the wiring.

✓ Longitudinally open space to facilitate the entry and exit of wiring cables to the surface of the table.

✓ Desktop unit power, data and USB sockets for the operators. (4x energy and 4x data in every column.)

REMOVABLE
COVER TO
MANAGE THE
WIRING

DESKTOP UNIT:
POWER, DATA
& USB

BARCO

MEETING SOLUTIONS

✓ The solution is provided with a 55˝ BARCO monitor OverView KVD5521B.

✓ Optional accessories to make a video conference:

  + Barco ClickShare CS-100
  + HD 1080P Videoconferencing system

✓ Integrated connectivity.

✓ Compartment for computer equipment storage.

✓ Specific area for webcam.

AREA FOR WEBCAM

BACKSIDE COVERS

55˝ BARCO MONITOR

COMPARTMENT FOR EQUIPMENT

EMERGENCY LIGHTING SYSTEM

CONNECTIVITY UNIT

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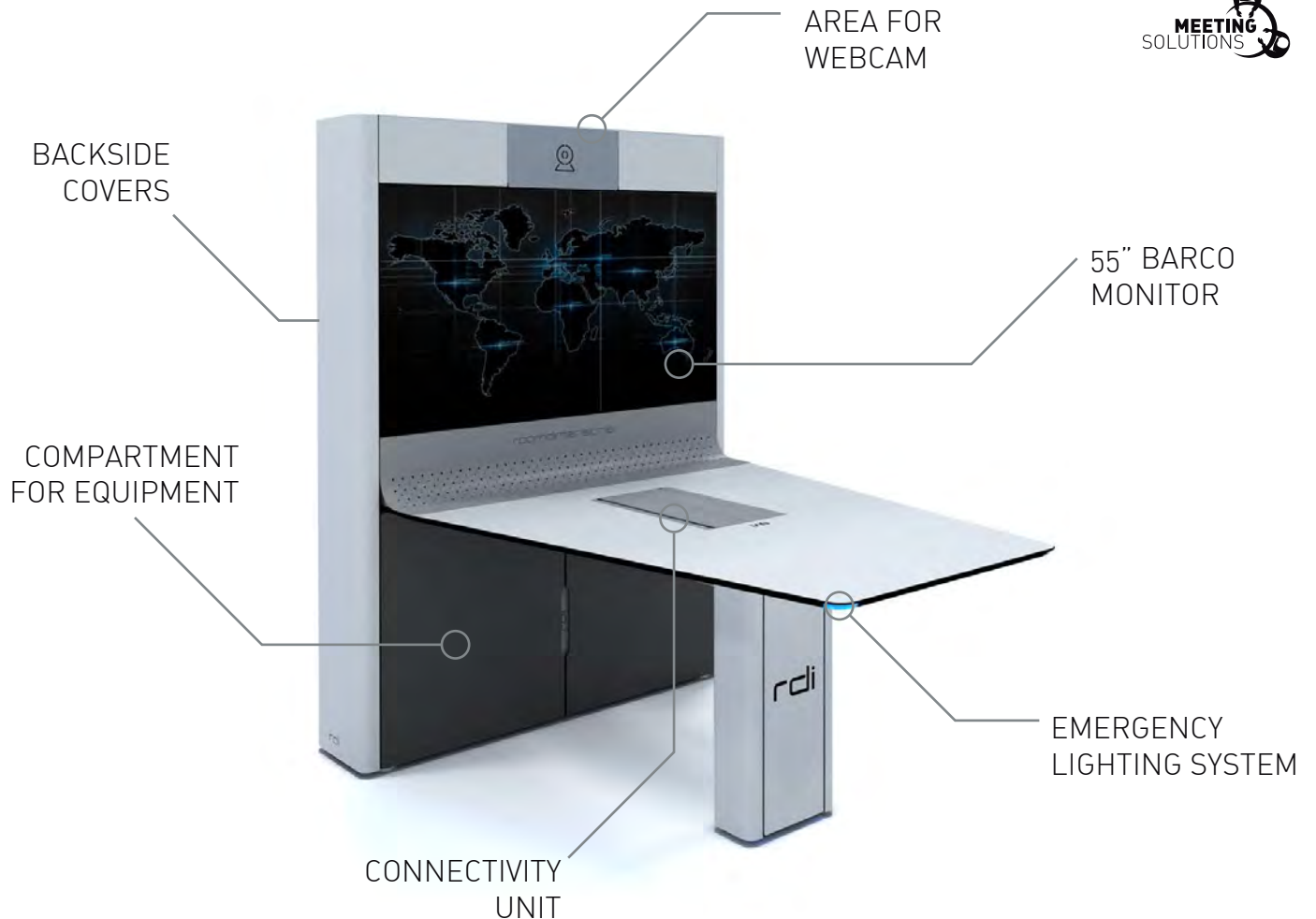
✓ Company focused on solutions.

✓ Facility adapted to produce added value products.

✓ R&D team expert developing Technical furniture.

✓ Short time to market.

✓ High flexibility & customer adaptation.

✓ Fully customization.

special consoles

rdi | room dimensions

▸ ergonomics ◂ ·

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We dispose of a wide line of **ergonomic solutions** that complete all of the product ranges and are aimed at facilitating the usability of the elements and items embedded therein, so as to increase the degree of comfort to the end user. **Various features are applied to different using demand.**

100 x 100 / 75 x 75 VESA PLATE

LOADING AT 0.5KGS (1.1 LBS) ~ 8.5KGS (18.7 LBS)

INTEGRATED CABLE MANAGEMENT

TOOL STORAGE INSTALLATION

TRIPLE MONITOR

DOUBLE MONITOR

CLAMP SYSTEM

GROMMET SYSTEM

monitor arms

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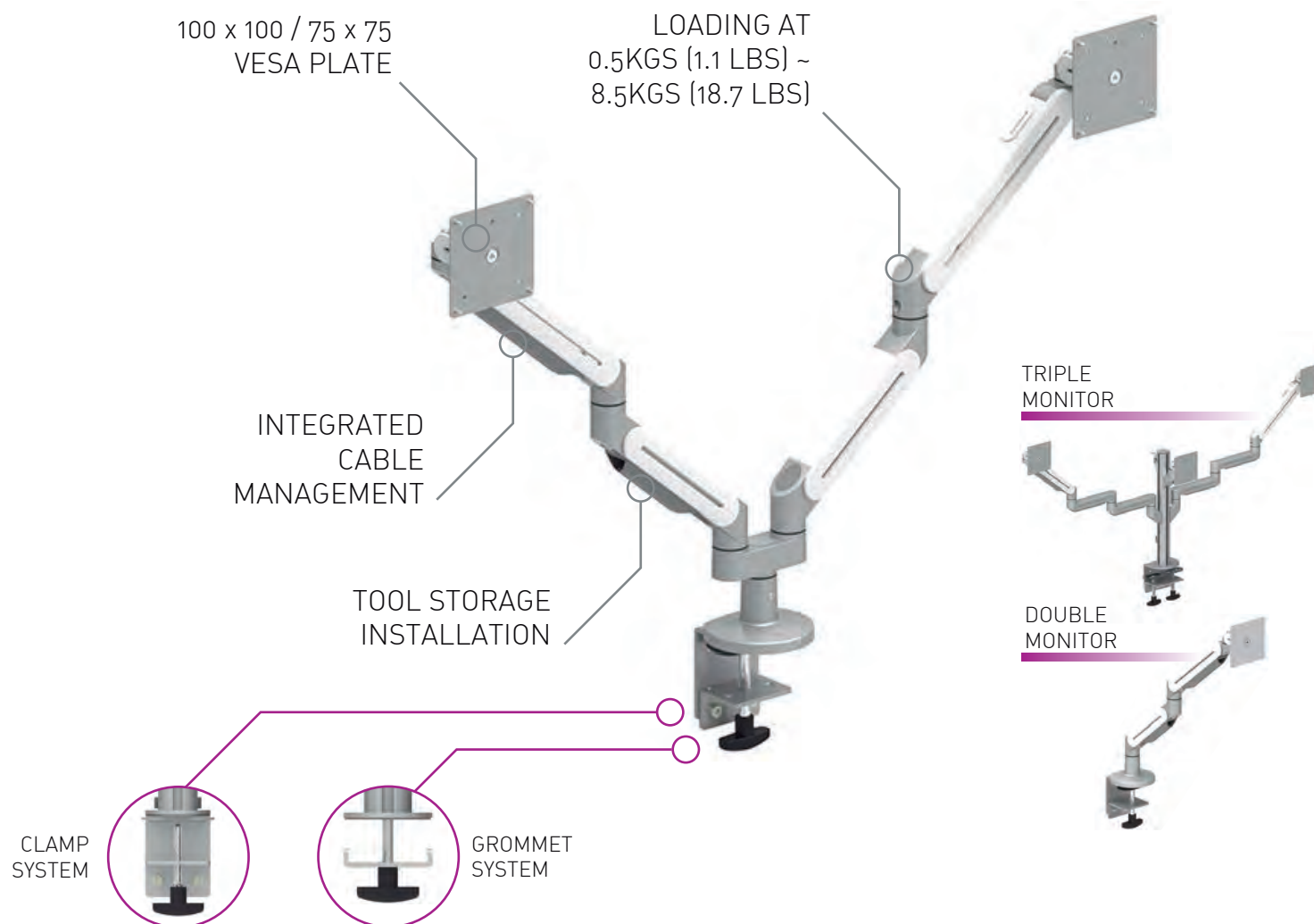
The **CXO ergonomic solution** is specifically designed for the management and organization of 24x7 operating environments, enabling the regulation of all its components in contact with the human body, and integrating padding solutions which ensure a high degree of user comfort and long life cycle to the product.

✓ Ergonomic high-class product

✓ Allows adjustments in depth of the seat

✓ Enersorb™ foam filling solution

✓ Product certified according to FNEW 83-269E

✓ Ergonomic design, high degree of comfort

seatting

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The illuminance level is not the only factor governing visibility to accomplish a specific activity.

Contrast is also important, and a poorly positioned light source may cause contrast reduction, resulting in loss of visibility.

The most important purpose of task lighting is not increasing illuminance, but improving contrast.

5 LEVELS DIMMING CONTROL FROM 100% TO 20%

SINGLE BUTTON ON/OFF

ILLUMINATION: 1200 LUX

ALLUMINUM ALLOY

COLOR TEMPERATURE: 4000K

COLOR RENDERING INDEX: 85

EMITTING COLOR: WHITE

task lighting

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hi-tech solutions

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4YC

4YC
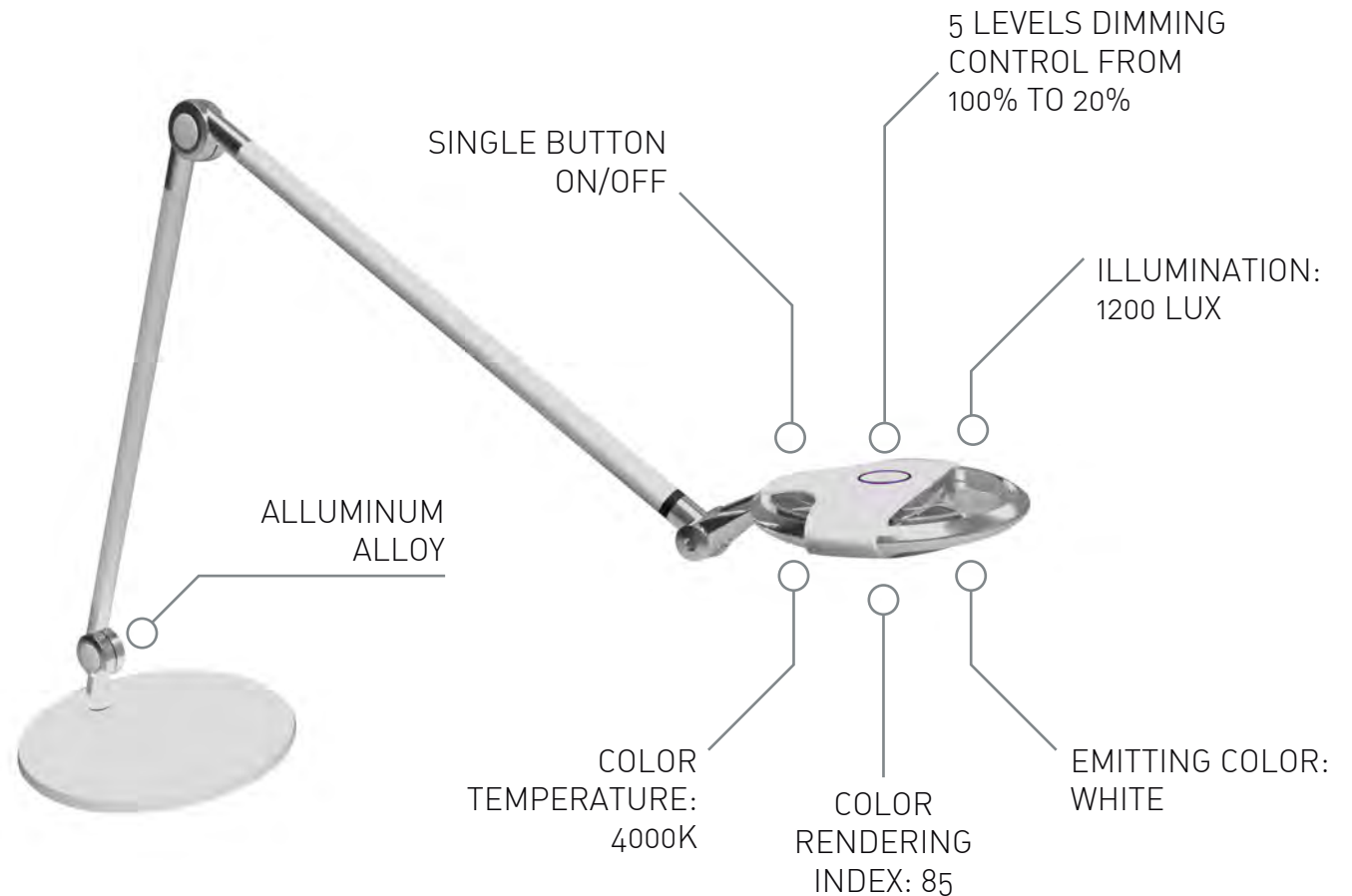
FOR YOUR CONTROL

Command & Control Centre Solution by IP Based KVM Video Collaboration System

4YC (For Your Control) is an all-in-one Command & Control Centre Solution which combines features of KVM matrix, videowall control and smart workspace.

ENVIRONMENT

CCTV VMS

HD CAMERA

IPC

CENTRAL CONTROL

IO/IR CONTROL

AV DISPLAY

VIDEOWALL

AV TOTEM

PC

NVR

WORKSTATION

MEETING TABLES

CONTROL CONSOLES

WORKSTATION

RESOURCES

GET

GET

PUSH

PUSH

PUSH

hi-tech

rdi | room dimensions
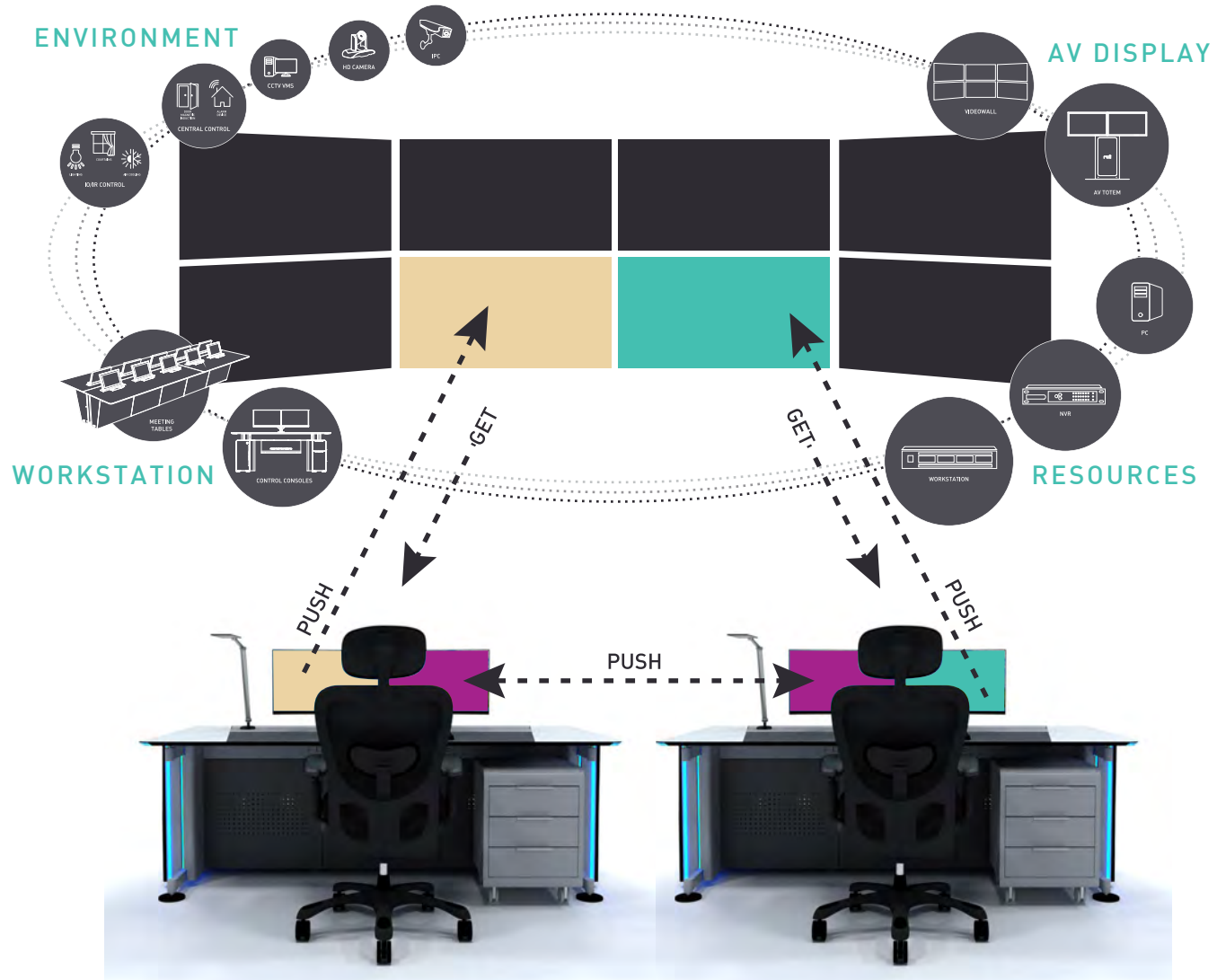
24x7 AV solutions

- -LCD led screens
- -Rear projection Screens
- -Electronics / Av controllers
- -Control Room Software
- -AV infrastructure

BARCO

hi-tech

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Electronic screens

-Pop up monitors
-Fold moniotors
-Touch panels

TOUCH SCREEN

((HDCP))

MICRO

KEYBOARD

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hi-tech

What can we do for your control room?

Roomdimensions Iberica, RDI, can help your company to define and write all the prescription about your control room environment, defining the next points:

▸ **Control room design (fit-out)**

▸ **Control room ergonomics**

▸ **Console design / specification**

▸ **User ergonomics**

▸ **Audiovisual Solutions for 24x7 environments**

▸ **KVM infrastructure**

▸ **BOQ (bill of quantity)**

▸ **BOM (Bill of material)**

▸ **Budget definition**

▸ **Tender documentation**

1 Control room design

- ▸ Flooring design
- ▸ Technical ceiling design
- ▸ Wall covering design
- ▸ Video wall paneling/cladding

- ▸ Lighting solution
    Direct / Indirect / decorative
- ▸ Corporative image
- ▸ Auxiliary elements

rdi room dimensions
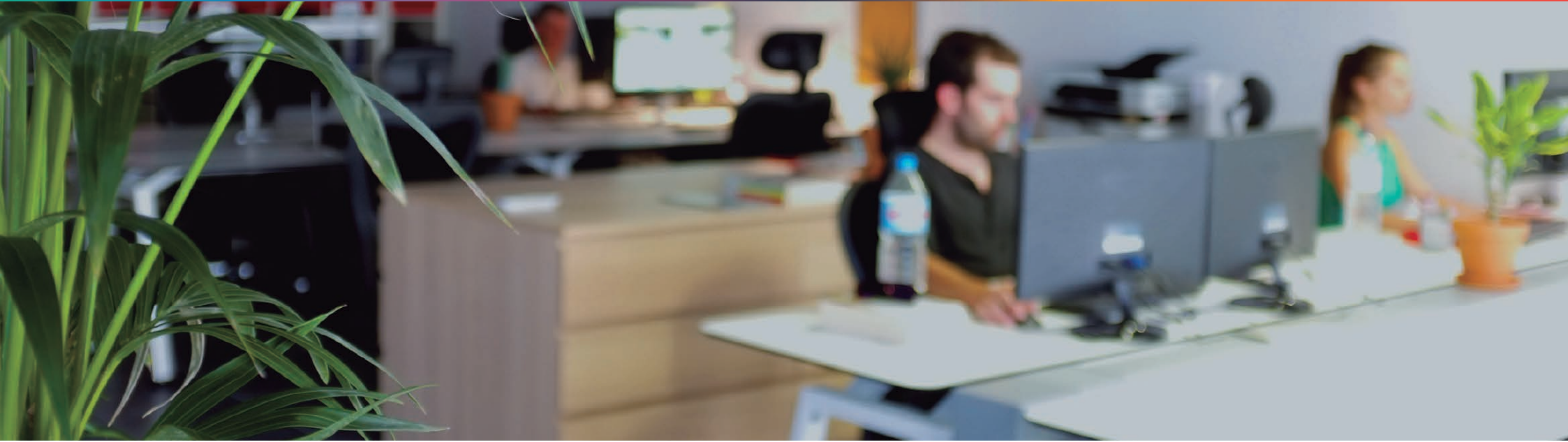
2 Control room ergonomics

- Visualization analysis between users and main AV screens on the control room.
- Relation analysis between control room areas or functional groups.

- Mobility in the control room.
- Annexed environments or common areas. Crisis environments / Prayer area / Rest area...
- Filing / printing areas

rdi | room dimen sions

Why a console?

High-quality, sustainable and low maintenance materials.

High tech solutions ready to manage cabling infrastructure and connectivity.

Energy and data cabling distributed to avoid interferences.

Designed for human factors.

Fast and clean access to the infrastructure without disturbing the user.

Different areas for the connectivity of the equipment.

Integration of ergonomic elements to enhance the daily user comfort.

Cabling management is the key point.

The capability of creating multiple configurations.

Space for the equipment location.

Designed following the control room international regulations.

Option to reconfigure the work post modifying number of operators at any time.

Maximum functionality with the latest integrated technology.

POWER & DATA SUPPLY IN TABLEBOARD

MONITOR ARM INTEGRATION

ERGONOMIC ELEMENTS INTEGRATION

CABLE DUCT WITH POWER SUPPLY

19" FOR ELECTRONIC & EQUIPMENT

EMERGENCY LIGHTING SYSTEM

INDUCTIVE CHARGER

WIDE SPACE FOR ELECTRONIC STORAGE

DUCT FOR CABLE ROUTING

INTERNAL WIRING PASSAGE WITH ACCESS TO THE TECHNICAL FLOOR
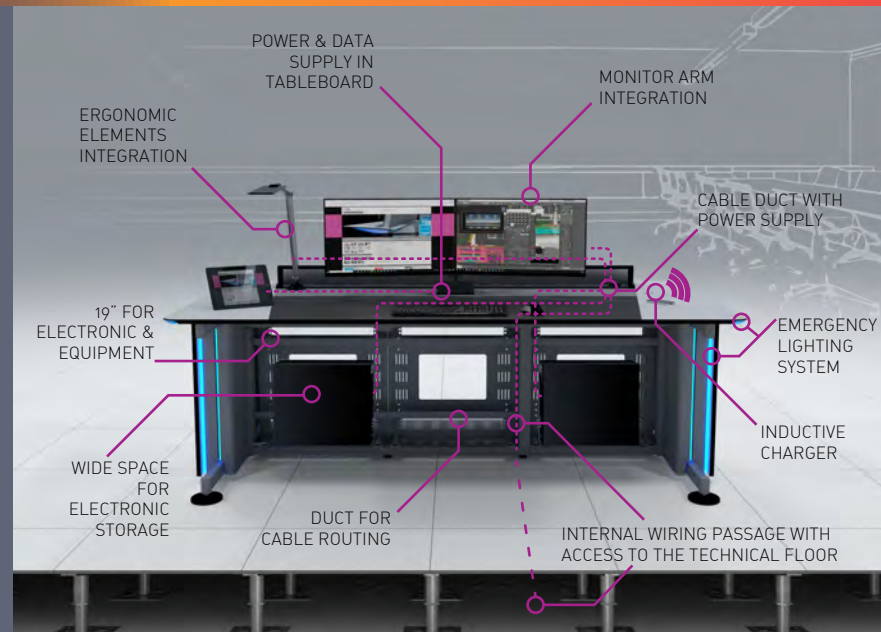
3 Specifications

▶ Model definition based in the technology located in

Equipment space identification in

▶ the design

Connectivity space and quantity

Cable management definition

▶ Console maintenance & access to

▶ infrastructure.

Personal storage

Ergonomic elements

▶ LCD support arms

Personal Connectivity for peripherals

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Optimum head position.

Proper angulation for arms.

Back and legs keep a good position.

The feet rest perpendicular to the direction of the leg.

1116mm

1500mm

800mm

NON-WORKING AREA

OCCASIONAL WORK

WORKING AREA
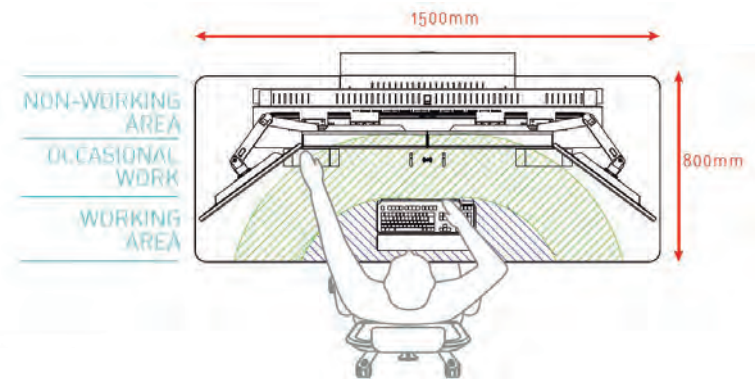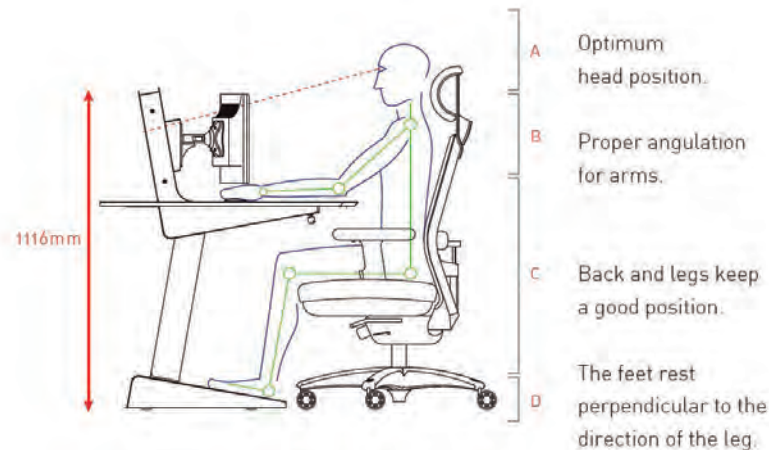
4 User ergonomics

▶ Analysis of the personal screen position.

▶ Screen adjustment based in LCD support arms.

▶ Access to the equipment locate in the console.

▶ Access to the personal storage.

▶ Personal task lighting to increase visibility.

▶ 24x7 chairs.

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5 Audiovisual infrastructure

▶ **Display definition based on the use**

▶ **Electronics definition base on the number of signals and resources displayed**

▶ **Control room software management to control the display**

▶ **Infrastructure needed to implement the Solution**

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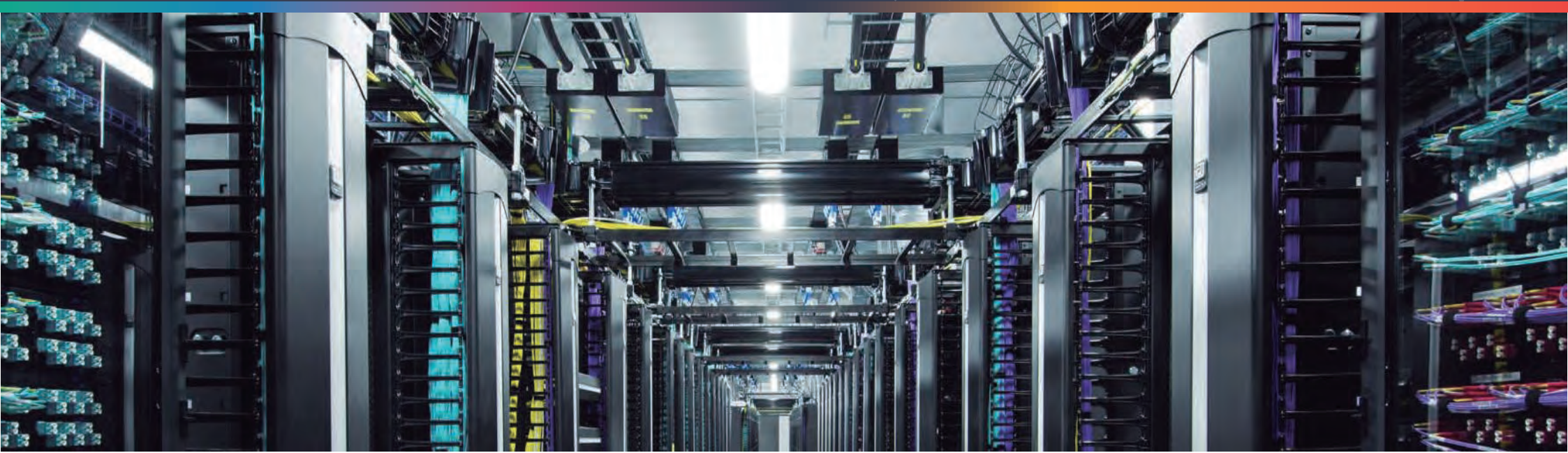
6 KVM infrastructure

▸ **Technology to transport the signals from the PC located in the data center, to the different consoles from the command center**

▸ **Operation with just one Keyboard and mouse**

▸ **Cognitive analisys to improve the human factors**

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services

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technical drawings

3d presentations

-Integral development of the 3d drawings
-Virtual presentation real environment
-Interior design definition
-Monitoring screens
-Videowall and AV solution integration
-Console & Tech furniture presentation
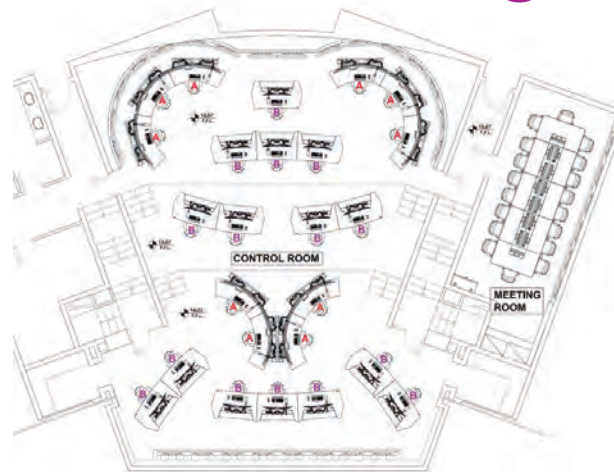
-2 dimensions layouts and distributions
-Control room Sections
-Construction details
-Ergonomic analysis
-Visualization analysis

technical specifications

-Product Datasheets
-Assembly guides
-Control room Technical Specs
-Bill of quantities
-Bill of materials

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project execution

-RDI partner assistance on site

-Human resources delivery

-Logistics coordination

-Technical instructions and manuals

-Registration of changes

-Final documents preparation

"as built" documentation

-Situation Analysis before production

-Environment analysis

-Documentation changes based on real status

-Logistics analysis

-Installation analysis

-Human resources analysis

project planning
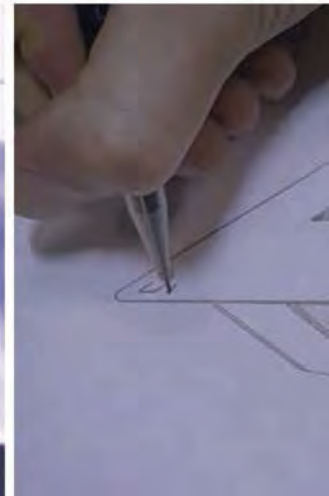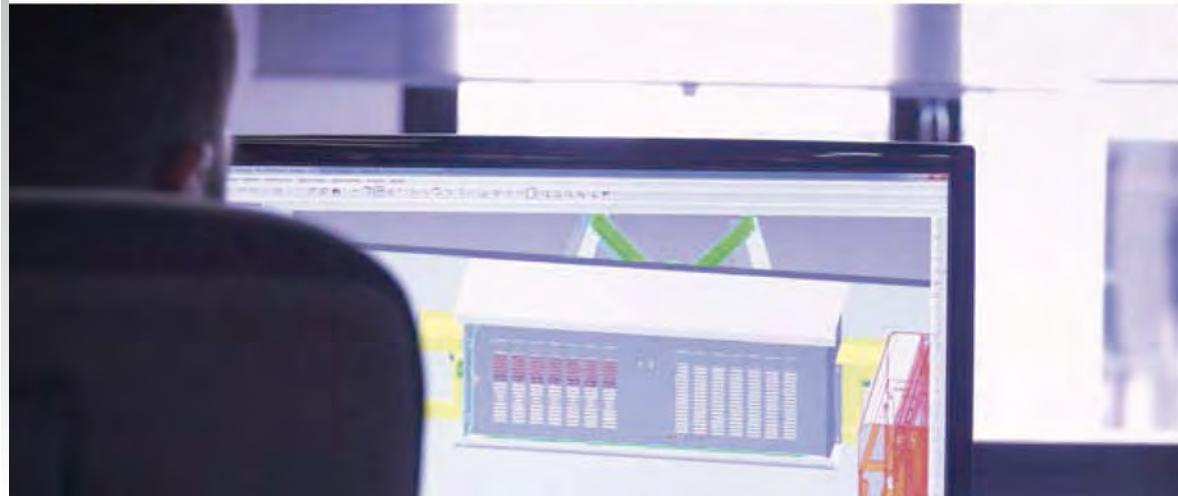
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references

rdi
roomdimensions

roomdimensions.es

In colaboration with **Indra, RDI** was commissioned to define the new **Prasarana Command Centre** located in Kuala Lumpur, taking all the responsability to design the different 24x7 operational environment and all the annexed spaces. RDI is the main supplier for the technical furniture, ergonomic solutions and Videowall recovering elements.
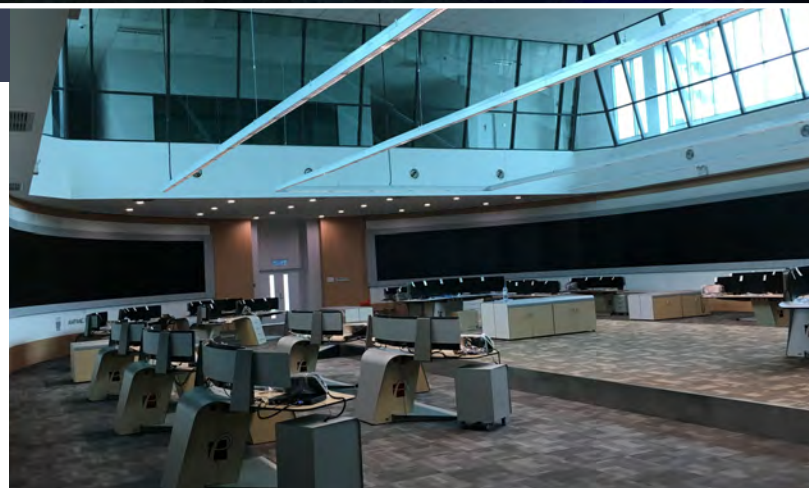
prasarana

roomdimensions.es

In collaboration with **Indra**, **RDI** was commissioned to fully equipe the new **TCDD control room** for the High speed Railway. This cooperation has given us the opportunity to design the fully environment, including all the architectural works and decorative elements, and designing and manufacturing an specific Consoles 100% customized to the **Indra**'s requirement and customer needs.

TCDD

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In collaboration with **Indra, RDI** was commissioned to modernize the biggest **Railway Operations Control Centre of Lithuanian Railways** with the latest technology of Railway Management alongside the ergo solutions, taking into consideration cable management and connectivity of the devices used.

LIETUVOS GELEŽINKELIAI

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In collaboration with **Indra**, **RDI** was commissioned to fully equip the **BOCC** for the High speed Railway between Meca & Medina. The project scope includes the supply and installation of all the operator workposts and installation of the technical furniture and ergonomic accessories, defining all the key elements for an environment of critical operations like this.
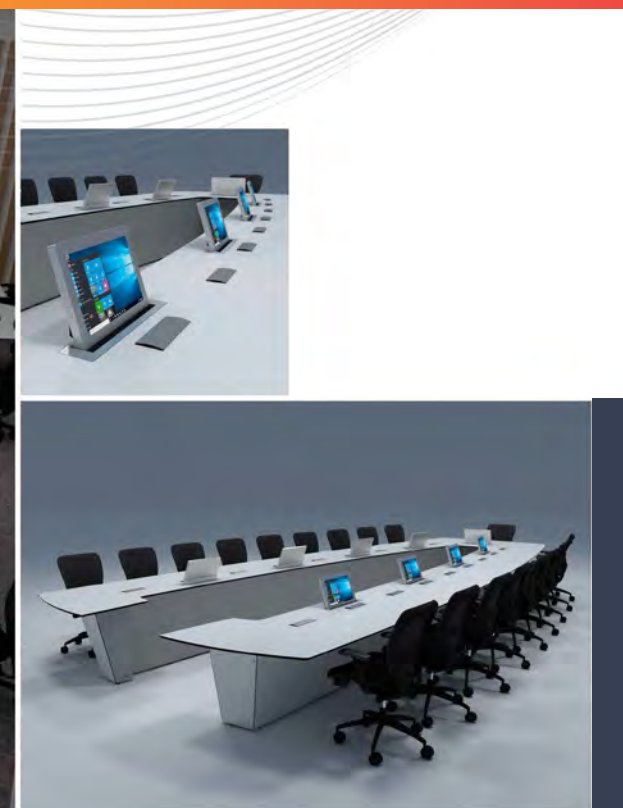
roomdimensions.es

In collaboration with **Indra**, **RDI** was commissioned to fully equip the **OCC Saudi Arabia**. The project scope includes the supply and installation of all the operator workposts and installation of the technical furniture and ergonomic accessories, defining all the key elements for an environment of critical operations like this.

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Control Room for the **Dubai Police**. A 15.000 unit police force for the city of Dubai, in the UAE. The project consists of a wide control room and a crisis zone to assist an area of 4.114 km2 and a population of 2.106.177 people.

DUBAI POLICE
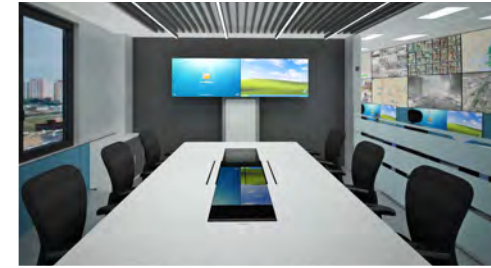
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Design and supply of the furniture for the operational, crisis management room and annexed offices for a townhall next to Barcelona, Spain. **RDI** has integrated the LAN solution, created with the aim of meeting the needs of workplace, pointing to a very clear direction: modularity, organization and robustness.

roomdimensions.es

Roomdimensions has been contracted by SICE to equip the new control center of the **General Directorate for Traffic** located in Zaragoza, Spain. The project scope relied on the organization of all the operational workstations of the main control room and of the annexed crisis room, employing solutions designed and developed specifically for this particular operating environment.


DGT
Dirección General
de Tráfico
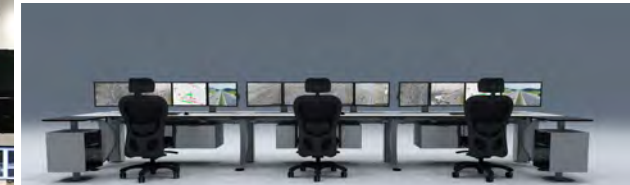
roomdimensions.es

Roomdimensions has been contracted by SICE to equip the new control center of the **General Directorate for Traffic** located in Seville, Spain. The project scope relied on the organization of all the operational workstations of the main control room and of the annexed crisis room, employing solutions designed and developed specifically for this particular operating environment.

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Dubai's Roads & Transport Authority (RTA) built the **Enterprise Command & Control Centre** (EC3) offices to house the biggest and most sophisticated control center of its kind worldwide, in terms of utilising smart technologies with the ability to control & integrate various RTA transit modes.
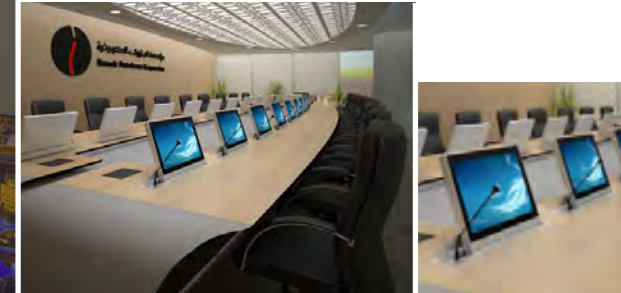
roomdimensions.es

KNPC is Kuwait's only Refining Company. They provide the local market with all fuel needs, including Gasoline, Diesel, Kerosene and Gas. **RDI** has developed a Huge meeting table equipped for 21 users. Every work post is fully furnished with the most technological equipment to guarantee a comfortable and easy meeting.

شركة البترول الوطنية الكويتية
KNPC
A Subsidiary of Kuwait Petroleum Corporation

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Bank Leumi is an Israeli bank founded to promote the industry, construction, agriculture, and infrastructure of the land hoped to ultimately become Israel. **Roomdimensions** has developed one of the operations center. The space counts with a **control room operated by 20 employees** occupying a total area of 381,28m². It has been equipped using the T-Line console solution.
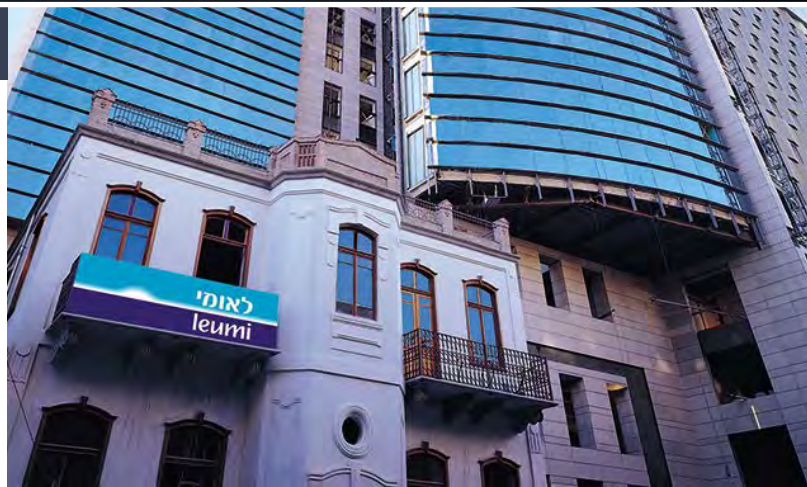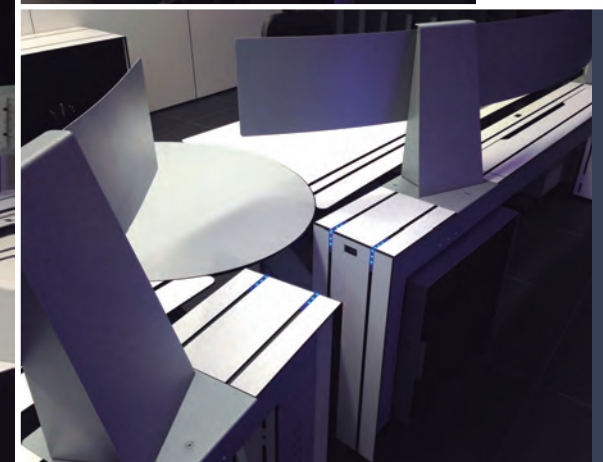
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The Al Rajhi Bank is a Saudi Arabian bank and the world's largest Islamic bank by capital.

Roomdimensions has developed 5 control rooms, giving place to a total of 67 operators. ARB NOC, ARC NOC, Data Center Noc, Security Room & Robotics Control Room.


مصرف الراجحي
Al Rajhi Bank

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Roomdimensions, contracted by the Bilbao Bizkaia Water Consortium, has executed the comprehensive remodeling of the Control Centre and the CPD of the ETAP de Venta Alta. The Project has included a turnkey scope, and has been equipped taking into account all the specific and functional aspects of a 24x7 operations environment with the most advanced features of cable management.
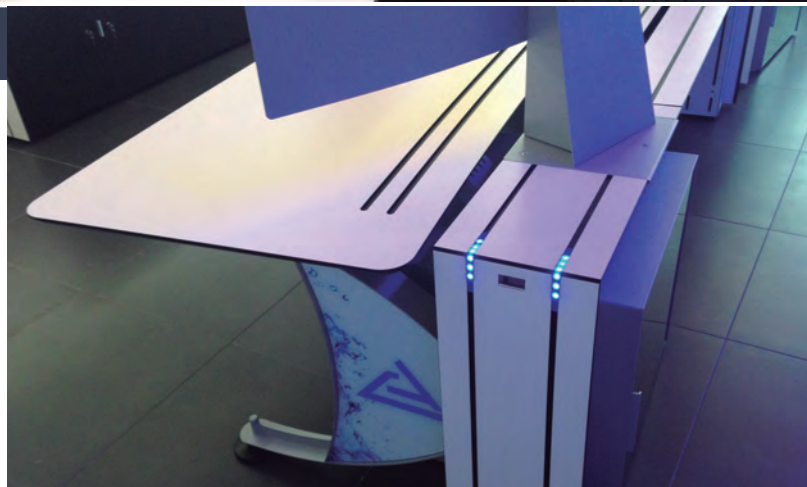
Bilbao Bizkaia Ur Partzuergoa
Consorcio de Aguas Bilbao Bizkaia

roomdimensions.es

Saudi Aramco is a Saudi Arabian national petroleum and natural gas company. It has both the world's second-largest proven crude oil reserves and second-largest daily oil production. **Roomdimensions** has designed, manufactured and supplied the main control room giving place to 98 operators in a 24x7 operations environment.

أرامكو السعودية
saudi aramco

roomdimensions.es

Israel Railways is the state-owned principal railway company responsible for all inter-city, commuter, and freight rail transport in Israel. **Roomdimensions** has built a 63 operators control room to manage the rail transit of the country.
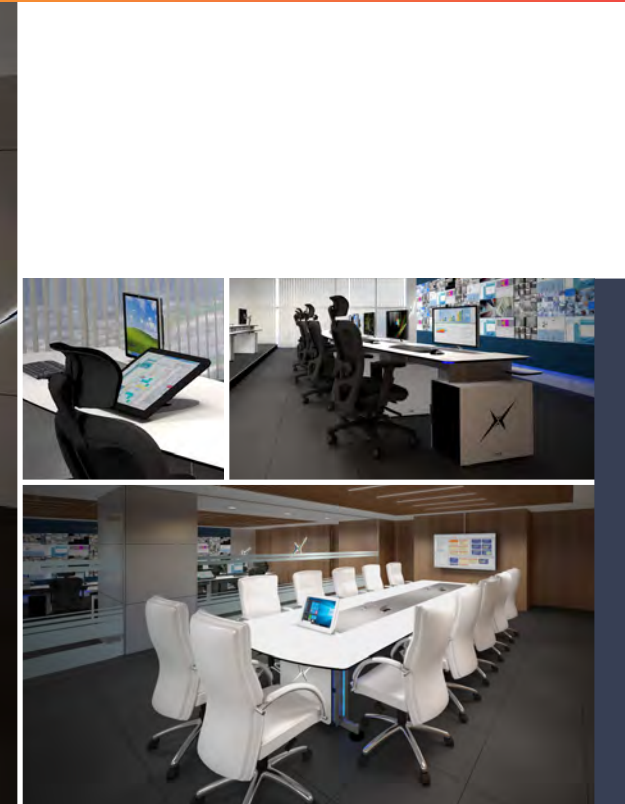

ISRAEL RAILWAYS
ENJOY THE RIDE

roomdimensions.es

Roomdimensions supplies the control room center for the Israeli company **ICL**, a global manufacturer of products based on unique minerals, fulfils humanity's essential needs, primarily in three markets: **agriculture, food and engineered materials.** The control room has an area of 268 m^2 and capacity for 20 workers divided into **16 operators** and **4 supervisors**.
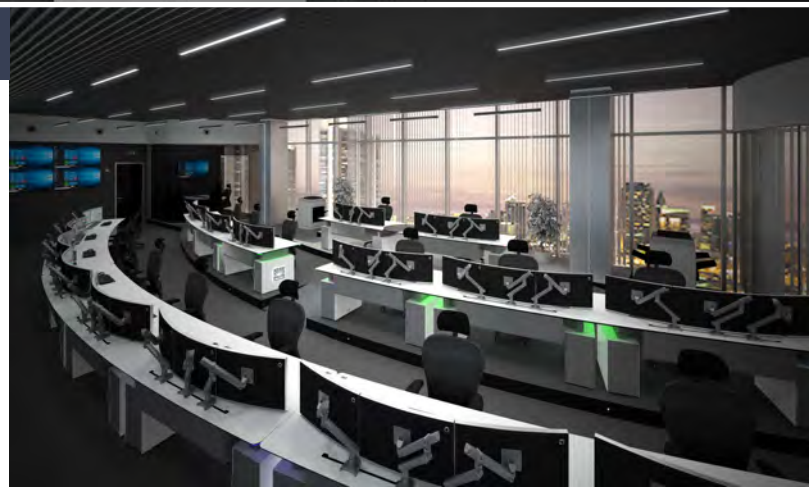
AICL Neot Hovav

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Roomdimensions has equiped the new **TRA Control Room**. The space is divided into: **Main Control Room** & **Crisis Room**. The project employs the LAN console product range, a top product of high performance with a structure that enables the entry and effective conduction of cabling from the raised floor all along the workpost uninterruptedly.

TRA
TELECOMMUNICATIONS REGULATORY AUTHORITY
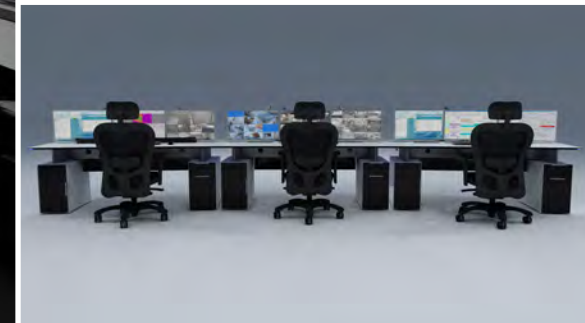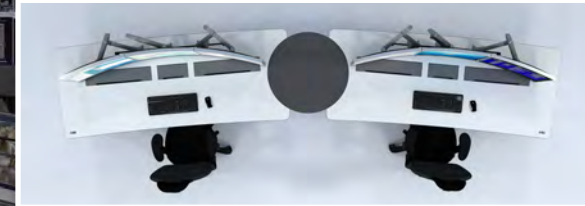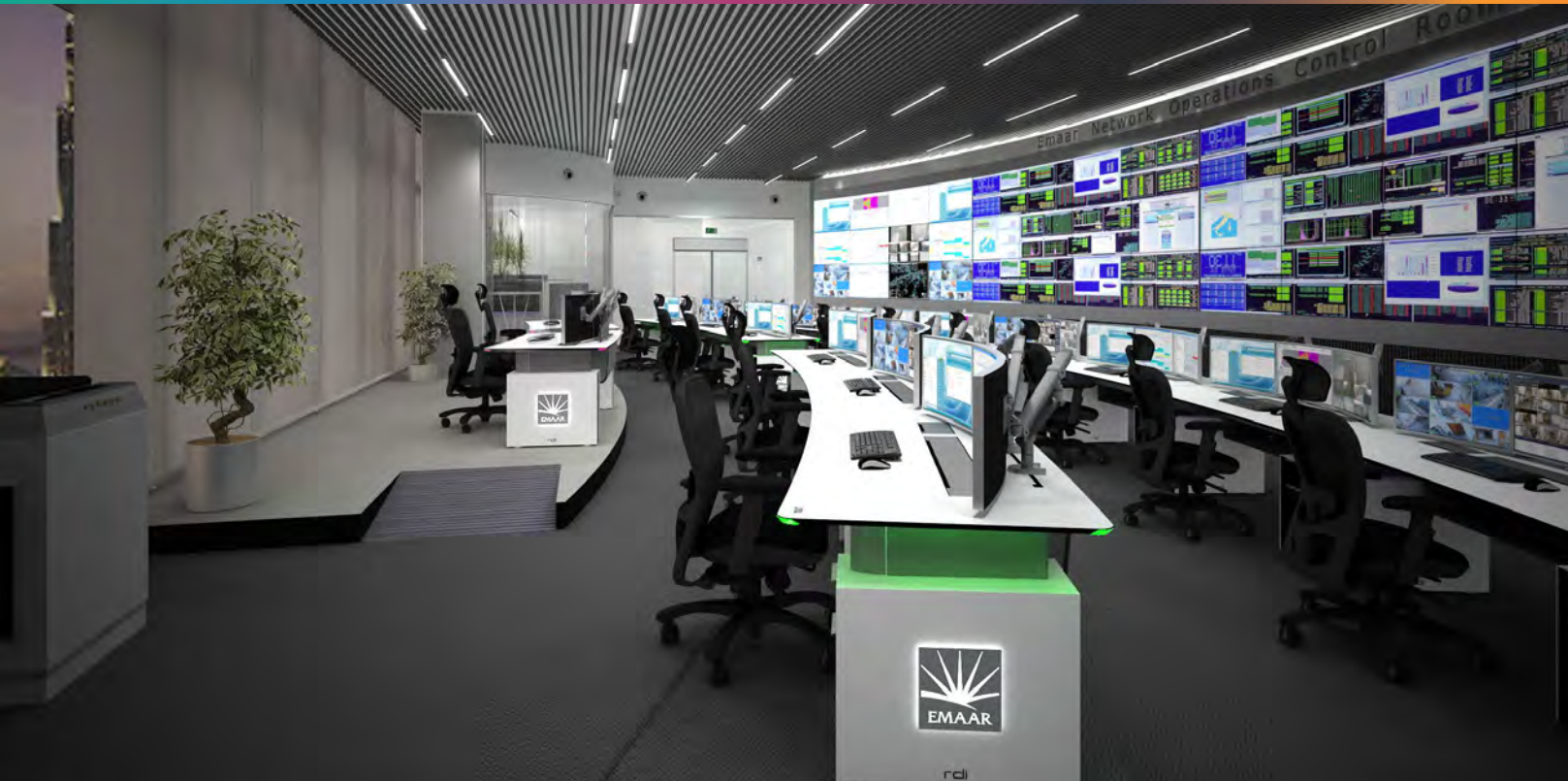
roomdimensions.es

Roomdimensions has equipped the new **EMAAR Command Centre**, conceived as such to comprise a **Main NOC Area**, with one annex **Meeting Room** and an **Open Area**. All the workstations are designed as such to be able to integrate the audiovisual and computer equipment required by each operator for his daily work, one drawer archive module and an integrated LED lighting system to identify working groups.

THANKS FOR YOUR ATTENTION

rdi room dimen sions