Digital Signage
This is a conceptual plan. Check page 2 for precise size and location

- Laser Projector (12 units)
  - JPG, MP4
  - Resolution 1600x1200

- Walkway (one side)
  - 6.50 m X 4.80m X 2

- Hall2 (hanging double sided)
  - 6.50 m X 4.80m X 4

- Hall 2-3 (one side)
  - 6.50 m X 4.80m X 2

- Hall 3-4 (one side)
  - 7.50m X 5.60m X 2

- Watchout between Halls 7 and 8
  - 8 projectors overlapped 20% each (1024px X 768 px) X 8 = 6760 px X 768px
  - total dimension: 31.30 m X 4m

- CC1 Welcome screens (4 units)
  - See page 10 for details

- Metro Tunnel projections
  - 8 projectors. (2 groups of 4)
  - total dimension: 12.80m X 2.40m each group

- CC8 Welcome screens (30 units)
  - See page 10 for details

- CC7 Projection (1 units - rental equipment)
  - See page 10 for details

- Laser Projector (12 units)
  - JPG, MP4
  - Resolution 1600x1200

- Walking belt (travellators)
  - Escalators
  - JPG, MP4
  - Resolution 1920 X 1080
  - Dimension 1m X 0.57m each
  - Side by side 2m X 0.57m
  - 9 groups, 18 sides
Digital Signage

Detailed plan
Zoom in to check exact position
Scala - Remotely managed digital displays

Real time communication

**Multiscreen**
Multiscreen within a single screen with independent signals from sources such as images, videos or even webpages. We can work on the design of this multi-screen advising about resolutions or how to exploit their needs.

**Real time data**
Addition of real time data into a frame of the multiscreen. This allows to show simultaneously waiting Times at taxi ranks or catering areas, for example, side by side with other videos. This is controlled from one remote single point.

Example

- Logo
- Sponsor
- Weather
- Programme
- Transportation
Digital Signage

**Fixed Elements**

**Circular Led (1 unit)**
Recommended format: JPG (RGB) or MP4 (no sound available)
Resolution 26240px x 384px

Pixel pitch: 3.9mm
Total pixels: 10,076,160 pixels
Total resolution: 26240px x 384px
104 m x 1.5 m

1 PC NEXCOM ALB385-S
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
Sound: No

Always bear in mind that the LED is Circular, hence you need to prepare a loop file and think about the stitching. Make sure your content doesn’t move fast and thin elements or fonts are not used.

All graphic elements, especially logos, should be reduced to a 60% of its size in the X horizontal axis. This circular LED changes the aspect ratio and slightly stretches the image on the X axis.
In order to be able to render, we need to work in a lower resolution and divide contents into two compositions (Left & Right), each one is 3840 x 2160.

Not Horizontal!
Remember it is a loop, not a horizontal banner. “Start” meets with “End”.

The template
Always work with the template.

Movement
Try to make subtle and smooth animations. What in our screens moves some pixels, on-site moves several meters. It all depends in what you want to achieve, but from our experience moving a graphic from left to right very fast doesn’t work well: It makes the visitor dizzy and confused.

Assets
Try working with graphics & assets that are not ultra thin. Though the resolution is great, thin elements will always be a source of trouble depending on their size.

Timing is everything!
Try not to exceed 45 seconds. Shorter videos are more effective in this device.
Hall 2 Walkway welcome LED Screen (1 unit)
Recommended format: JPG (RGB) or MP4 (sound available)
Resolution 1920 x 384px
Screen Area Dimension(m) 7,5 m x 1,5 m
Distance between LEDs 3,9mm
SMD 2121 Black Body LED
LED Absen

1 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
Sound: YES
Digital Signage

Fixed Elements
Laser Projection

Laser Projector (2 units) Level 0
JPG (RGB) or MP4 (sound available)
Resolution 1920 x 1200 px
ScreenDimensions: (4.20 x 2.30 m) x 2

Projectors Luminosity: 7000 lumens
Aspect Ratio: 16:10
2 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
SOUND: Sound available

Laser Projector (2 units) Level 1
JPG (RGB) or MP4 (sound available)
Resolution 1920 x 1200 px
ScreenDimensions: (4.70 x 2.60 m) x 2

Projectors Luminosity: 6000 lumens
Aspect Ratio: 16:10
2 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
SOUND: Sound available
Digital Signage

Fixed Elements
Laser Projection

Hall 2
(centered- double sided)
Resolution 1600 x 1200 px
ScreenDimensions: (4.90 m x 3.60 m) x 4
Total Dimension: (9.80 m x 3.60 m) x 2 groups

Projectors Luminosity: 9000 lumens OPTOMA DZ9000
AspectRatio: 4:3
4 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
SOUND: Available

Hall 3
(against wall - single sided)
Resolution 1600 x 1200 px
ScreenDimensions: (4.90 m x 3.60 m) x 4
Total Dimension: (9.80 m x 3.60 m) x 2 groups

Projectors Luminosity: 9000 lumens OPTOMA DZ9000
AspectRatio: 4:3
4 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
SOUND: Available
Digital Signage

Fixed Elements

Underground Tunnel
Connection to Metro Station ‘Fira’ from South Entrance
8 projectors (2 groups of 4)
Resolution 1600 x 1200px (X 8)
Total dimension: 12.80 m X 2.40 m each group
(each projection 3.20 m x 2.40 m)

One sound source per group
Briefing required for any animation or effect
Accepted formats: wmv, mov, mpg, jpg

Projectors: 6.000 lumens
8 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Ram : 8Gb
Graphic: Intel Integrated HD 520
Sound: Available

Metro Station
Welcome Screens
3 LED Plasma Screens (55”)
Resolution 1920 px X 1080 px
Dimension: 1.23 m X 0.71 m

Sound
Accepted formats: wmv, mov, mpg, jpg

Contrast: 5.000 :1
3 PCs
Graphics: Intel HD Graphics 4000
Chip: Intel Core i5 3427U CPU 1,80Ghz
Memoria RAM: 4 GB
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Fixed Elements

TFT Screens 55” horizontal (44 units)
Recommended format JPG (RGB) or MP4 (sound available, from one source recommended)
Resolution 1920 X 1080 px
Dimension 1.209 m X 0.681 m each
Side by side 2.418 m X 0.681 m (11 groups, 22 sides)

AspectRatio: 16:9
LG 55SE3KB-B.AEU
2 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 8 Gb DDR3L
Graphic: Intel Integrated HD 520
Sound: Yes. To prevent overlapping, it is recommended that only one of the projections is the source for the audio.
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Fixed Elements

Watchout between Halls 7 and 8
8 projectors overlapped 20% each (1024px X 768 px) X 8
Total 6760 px X 768 px
Format: JPG (RGB) MP4 for VIDEO
Total dimension: 31.30 m X 4 m

Sequential or Random order
Briefing required for any animation or effect
Accepted formats: wmv, mov, mpg, jpg

Projectors: OPTOMA ZU650 6.000 lumens
Dell Precision Tower 3620
GraphicCard: PNY NVIDIA NVS 810
Chip: Intel Xeon CPUE3 3,5Gb
RAM: 8Gb
The content creation is via SCALA DESIGNER software.
Sound: Yes. Always recommended.

MP4 files (max 4096 x 464) need to be rescaled using our equipment to reach the watchout resolution of 6760 x 768.

Option 1: Send us a video split into 2 parts (Part A & Part B - each one of 3380 x 768), it will be embedded together using our equipment.

Option 2: One MP4 video of 4096 x 464 px and we will rescale it.

If you change the FPS of any comp, please remember to apply it to all 3 compositions.

For JPG images send us 6760 x 768 still pictures.
Digital Signage

Conference Centers

CC1 Rooms welcome screens
(4 units, rooms 1.1, 1.2, 1.3 and 1.4)
1920 X 1080 px

Accepted formats: wmv, mov, mpg, jpg

Screen dimensions: 23,6”
AspectRatio: 16:9
Operating System: Windows Embedded 64 bits
PC Nexcom ALB385
Chip: Intel Core i3-6100u
Graphic: Intel Integrated HD520
Ram: 8Gb
Software: Office 2013
Sound: Yes

CC8 Rooms welcome screens
(30 units +1 at entrance)
1920 X 1080 px

Accepted formats: wmv, mov, mpg, jpg

Screen dimensions: 23,6”
Main entrance screen dimension: 60”
AspectRatio: 16:9
Operating System: Windows Embedded 64 bits
Processor: Intel Celeron Dual CPU 847 1.10 GHz
Graphic Card: Intel HD Graphics
RAM Memory: 2GB

CC7 Projection
Rental Equipment

Accepted formats: wmv, mov, mpg, jpg

Projection dimensions might vary depending on the optics of each projector.
Projection dimension recommended: 5.30 m x 3m
Fixed distance from projector: 15.30m
Total dimensions of wall: 9.30m X 4.90m

PC Nexcom ALB385
Chip: Intel Core i3-6100u
Graphic: Intel Integrated HD520
Ram: 8Gb
Windows Embedded 64 bits

Projection dimension might vary depending on the optics of each projector.
Projection dimension recommended: 5.30 m x 3m
Fixed distance from projector: 15.30m
Total dimensions of wall: 9.30m X 4.90m

PC Nexcom ALB385
Chip: Intel Core i3-6100u
Graphic: Intel Integrated HD520
Ram: 8Gb
Windows Embedded 64 bits
Digital Signage

Moveable Elements

Totem 46" screen vertical (Total 16 units)
Recommended format: JPG (RGB) or MP4
Resolution 768 X 1366 px, ratio 16:9
Screen dimension 0.57m X 1 m
Totem dimension 2.19 m X 0.90 m X 0.89 m
8 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 4 Gb DDR3L
Graphic: Intel Integrated HD 520
Sound: Yes

Totem 55" screen horizontal (Total 2 units)
Recommended format: JPG (RGB) or MP4 (no sound available)
Resolution 1920 X 1080 px, ratio 16:9
Screen dimension 55" (1238mm x 714.9mm)
Totem dimension 2.17m x 1.58m x 0.89m
2 PC NEXCOM ALB385
Chip: Intel Core i3-6100U
Memory: 4 Gb DDR3L
Graphic: Intel Integrated HD 520
Sound: Yes

*If movies are delivered in their final format, please take into account that all the files must be to 30fps.

** The totems are meant to be installed along the walkway and south access. Exact location of totems depends on availability of sockets and network connections in the area. Please contact our team to find a solution that suits you.
Montjuic venue

Hall 1 TFT Screen 57” (1 unit)
1366 X 768px
1 PC Player Nexcom ALB385
Chip: Intel Core i3-6100u
Memory: 4Gb DDR3L
Graphic: Intel Integrated HD 520
Sound: NO
110-MJP1_TFT_ACCESS_MARIA_CRISTINA

Hall 8 Street Led Screen Welcome LED (1 unit)
Dimensions: 4.48 x1.28 m.
Resolution: 672x192 pixels
Distance between LEDs: 6.67mm
Type of LED: SMD 2727
LED Absen
181-MJP8_Led_Plaza_Espana

堂1 TFT屏幕57”（1个单元）
1366 X 768px
1个Nexcom ALB385电脑
芯片：Intel Core i3-6100u
内存：4Gb DDR3L
图形：Intel Integrated HD 520
音量：NO
110-MJP1_TFT_ACCESS_MARIA_CRISTINA

厅8街道LED屏幕欢迎LED（1个单元）
尺寸：4.48 x1.28 m。
分辨率：672x192像素
LED间距：6.67mm
LED类型：SMD 2727
LED Absen
181-MJP8_Led_Plaza_Espana