



Technical Data Sheet for Multi-screen Wall Systems at the ICM:

The ICM features various multi-screen video wall systems. The systems consist of several 55-inch seamless displays joined together to one large display screen. At 700 cd/m² and with a resolution of max. 1920 x 1080 pixels, each single screen is very bright and pin sharp. With its super-narrow bezel of merely 1.8 mm (right and below) and 3.7 mm (left and top) respectively, the system is particularly well suited for large video wall installations with virtually seamless image transitions. The multi-screen walls moreover feature an integrated loudspeaker unit, consisting of two highly stressable, passive 2-way line source speakers, fitted with twelve 4" neodymium drivers and a 1" compression driver with waveguide for cylindrical wave dispersion. The integrated mega screen wall system is the perfect tool for dynamic music and speech transmissions, even at venues with a demanding acoustic architecture and long reverberation times.

The following formats can be rendered on the multi-screen walls via ICM's room information system:

- Graphic files: .bmp, .jpg, .gif, .tif, .tga, .png, .pdf
- Video files: .avi, .mov, .rm, .mpg, .mp2, .asf, .wmv
- Office 2000 files: .xls, .doc
- Office 2007 files: ppt
- Web pages: HTML/XML
- Animated sequences: Flash, Shockwave
- Ticker text/news
- Live TV (all available cable channels)
- Live images (e.g. room images fed from BB communication systems)
- Text
- DVD playback

Other formats on request

The multi-screen wall systems can also be fed from external video sources (Blu-Ray, high-density camera etc.) via a DVI/XLR adapter available on site. A signal transducer converts the incoming image signal to the ideal playback resolution.

System on scissor stairs (Ground floor foyer before auditorium):

Multi-screen wall consisting of 3 x 3 displays

Visible area: 3.646 m of x 2.058 m

Total size, incl. loudspeakers: 4.308 m x 2.100 m

Max. native total resolution: 5760 x 3240 pixels

Clearance (measured from foyer floor): 2.540 m

Systems at parapet (Foyer near escalator):

Two multi-screen walls consisting of 4 x 4 displays

Visible area: 4.861 m x 2.744 m (per multi-wall)

Total size, incl. loudspeakers: 5.245 m x 2.800 m (per multi-wall)

Max. native total resolution: 7680 x 4320 pixel (per multi-wall)

Clearance (measured from foyer floor): 4.013 m (per multi-wall)

Technical data of individual displays:

Manufacturer/type:	Samsung UD55A
LCD technology:	a-si TFT/DID
Backlight technology:	LED
Screen size:	138.68 cm (55 inches)
Pixel pitch:	0.630 mm.
Brightness:	700 cd/m ²
Contrast ratio (static):	3500:1
Contrast (dynamic):	10000:1
Response time:	8 ms (G/G)
Frequencies:	horizontal 30 - 81 kHz, vertical 56 - 85 Hz
Native resolution:	1.920 x 1.080 pixels
Number of colors:	16.7 million
Bezel width:	1.8 mm (right/below), 3.7 mm (left/above)
Safety certifications:	TÜV GS
Dimensions (W x H x D):	1215.3 x 686.1 x 96 mm

Technical data of integrated loudspeakers:

Manufacturer/type:	Fohhn LX 150
passive line array:	2-way source
Components:	12x 4" impregnated, 1x 1" on Waveguide
Power rating (nominal):	600 W
Sensitivity:	96 dB
Max. sound pressure level:	130 dB
Frequency range:	65 Hz - 20 kHz
Nominal dispersion (h x v):	140° x 25°
Impedance:	8 ohms
Dimensions (W x H x D):	130 x 1460 x 120 mm

Technical data, amplifiers:

Manufacturer/type:	Fohhn D-2.750
Amplifier technology:	class D (10-band parametric EQ dynamic processor with compressor)
EIA output power:	2x 750 W/4 ohms, 2x 390 W/8 ohms (1 kHz, THD+ N < 1%, 230 V mains)
Minimum impedance:	4 ohms
Outputs:	2 Speakon sockets
Inputs:	2 XLR
Amplification:	32 dB
Input sensitivity:	1.4 V
Frequency response:	20 Hz - 20 kHz

S/N ratio:	> 105 dB/A
Protective circuit:	soft start, overtemperature, short circuit, overload
Remote monitoring:	temperature, protect, signals
Power supply:	AC 230 V, 195 V - 250 V AC 50/60 Hz, switched mode power supply
Temperature range:	0 - 45°C
Cooling:	temperature-controlled fan
Dimensions W x H x D:	2 HE, 88.9 x 483 x 380 mm