

Audio Visual Projects

Ensuring you have the best solution to meet your needs

EXAMPLE AV CONSULTATION & DESIGN REPORT



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CONSULTATION AV SYSTEM DESIGN TURNKEY PROJECTS PROJECT MANAGEMENT

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The following is an example of a live
AV Consultation & Design Report
prepared for a client in a new build head office
with 25 areas of interest requiring
audio visual solutions and recommendations
including a complex Reception Area.

The client's details have been removed
and the report shortened to show extracts
from the relevant parts
as an overview of what it can contain.

For tender purposes,
reports can also be created
without specific branded products
and / or pricing



Prepared for

*** ***** ***

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Durham

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Project Reference

****/DS/**

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PART 1

OVERALL PROJECT INFORMATION



PART 1: OVERALL PROJECT INFORMATION

1. Introduction

This report is written as an Audio Visual Design Consultation Report aimed at providing recommendations and options for the most suitable equipment and solutions for ****'s new build.

- 2.** Phoenix AV are not tied to, nor have any agreements or affiliations with any manufacturer or brand. Consequently, the systems recommended are provided based on past experience of their quality and (or for new systems) their perceived suitability for the requirements specified by the client.

3. Report Introduction

This report is divided into three main parts designed to assist the client, their architectural and build consultants to understand what is to be provided and required.

- a. Part 1: Overall Project Information**

Covers general and administrative information.

- b. Part 2: Individual Area Recommendations**

Covers each room and area, looking at the specific requirements and options.

- c. Part 3: System Design & Install**

Provides for any specialist system design drawings.

- d. Part 4: Overall Cost Matrices**

The various cost break-downs to allow for any budget changes and system updates

- e. Annexes**

Covers specific equipment or procedures, especially where there are comparisons to be made between options.

4. Project Overview

- a. Equipment Procurement**

All equipment specified and supplied will be of the latest technology to help future-proof system usage and longevity.

Equipment will be procured through accredited UK distribution to ensure no 'grey' products. Furthermore, where possible all solutions recommended are commercial rated products with longer or enhanced warranty periods.

Note: It is possible that between the publication of this report and the commencement of the supply and build phase, new or alternative systems could be launched and released. Phoenix AV will endeavour to ensure the client is kept up to date with their options if necessary.

- b. Costing Procedure**

In most cases, the equipment has been priced at a discount normally applied by Phoenix AV. In addition, where there are multiple products of the same system, Phoenix AV will be requesting additional for multi-purchase discounts which will be passed back to the client.

At point of purchase, there will be a requirement for a 50% proforma payment. Equipment will be delivered direct to site and the remainder invoiced once all items installed on 14 days initial terms.



c. Support Procedures

Phoenix AV will continue to provide ongoing consultancy support once this report is submitted including any revisions. If there is to be a complete solution re-write, a charge may be incurred.

Support includes site visits and ongoing consultation to the client, architects and M & E Contractors.

4. Client Re-facilitation Requirements

a. Client Existing System Re-Integration

There has been no request for the re-use or integration of any existing systems and consequently not considered in this report.

b. Client preferences

The client has at this point expressed no existing brand policies nor any preferred systems.

5. Standardisation

In order to simplify the use for the employees, where possible, all systems have been standardised between various locations.

a. Screen Systems

The screens have been standardised as follows:

i. Sony

Used for main presentation and room monitors. A mid-priced brand, they are a tried and trusted solution by Phoenix AV and offer excellent commercial support.

Additional information at Annex A.

ii. Samsung

Used for digital signage requirements with its excellent built-in software capability.

A superb screen all-round, Phoenix AV often use this for standard room monitors, but in this application with the number of screens required, it was deemed to be a more costly option than the Sony.

b. Interactive Solutions

There are large numbers of interactive solutions now available, most offering the same operability and flexibility.

Of these, there are two main options considered for this project but with a cost implication. Most areas where interactivity could be a requirement, the options are given.

More information of the differences along with advantages etc. are at Annex B.

c. Control & Connectivity

The standard set is for Extron products. Each room will have the same basic connection plate and button controller to allow for the switching ON / OFF of screens, volume control and input (i.e. switching between the wireless presentation system and hard wired cables).

The importance of the control system is that it reduces issues of hand-held remote controllers becoming lost or broken or for problems occurring with dead batteries at crucial moments.

Extron also provides the various switching and control elements for the main Flexible Meeting Room, allowing for various operations and configurations.



d. Wireless WePresent

It has been decided to standardise on the WiPG WePresent 2000 system as this offers the greatest flexibility. There are 3 options of WePresent but to maintain commonality throughout, the 2000 version has been quoted.

For more information, see Annex G.

6. Video Conferencing

Initially, Phoenix AV were going to quote for cameras and VC units in each room. However, depending on how *** decide to conduct their VC communications, there are some simple variations which can be easily integrated.

Consequently, a separate overview of options is provided at Annex H to allow the *** team to decide what is best for their requirements and where to add devices and, or cameras.

7. Deliveries

Once the installation phase starts, the AV element will usually commence towards the end of the build when the building is in a clean and secure state.

Deliveries will be scheduled to go direct to site on a call-forward basis to ensure there are not too many attractive and easily removable packed items. Secure facilities will be required.

A general overall delivery charge has been costed due to the large variation in freight charges for small to large items.

8. Installation Overviews

a. Installation Period

Assuming the AV elements could be installed in one run, approximately 10 - 12 days would be required for 2 x 2-man teams. Depending on other company commitments, a third team could be deployed shortening the build time to approx. 8 days.

The installation requirement is shown in Part 2 against each room and it is recommended that a further 3 – 4 days is allowed for any potential delays, final checks and commissioning and hand-over.

b. Commissioning & Hand-Over

An authorised representative of *** will need to be available to confirm that any programming requirements (setting up button controllers, audio features etc.) are as envisaged. They will also need to be present to sign off each room and area as it is completed and made operational.

c. RAMS

Each installation team will have in place all relevant qualifications and full **Risk Assessment** and **Method Statement** documentation will be provided prior to starting.

9. Training Overviews

Onsite training will be provided and can be run in two ways: general training sessions for all staff in each identified area or 'train-the-trainer' sessions allowing *** to cascade training internally themselves.

The main areas for training include:



a. Digital Signage

This is generally a 1 day training session for up to 5 persons in the use of either the MagicInfo or Brightsign software depending on final choice.

Users will learn how to create multi-point templates incorporating various media types (pictures, text, video, RSS, web etc.) and how to schedule between different connected screens.

b. Wireless Presenter

This is a short, simple session aimed at IT staff to allow them to configure the systems at a later date if required. Each wireless presenter has a customisable Start Page when switched (displayed on main room screen) to allow users understand how get connected quickly and easily.

Additional functionality such as using the interactive annotation pad will be shown.

c. Interactive Screens

Training sessions will be provided for any purchased interactive screen system, such as the SMART Kapp IQ and the Sahara CleverTouch.

These are generally ½ to 1 day sessions and can incorporate up to 12-15 persons in any session.

d. IT Infrastructure

This is aimed at the main support facilities and IT staff to ensure they are aware of the features, maintenance and technical self-help features and requirements.

10. Maintenance & Support

a. Operations Manuals

An A5 Ring-Binder & Slip Case Operations Manual is provided as part of the handover.

This contains all details including equipment locations, serial numbers and warranties plus any relevant system diagrams.

Additional copies can be ordered at an extra charge.



b. Maintenance Support

All supplied systems have on-site warranties between 1 – 3 years.

Phoenix AV are also able to provide additional enhanced warranty support, details of which are at Annex K.



PART 2

INDIVIDUAL AREA RECOMMENDATIONS



FL-00: Main Reception Area

1. Introduction

The reception area will provide the first visual impact for any visitor as to the type of company *** is and is trying to portray.

Any audio-visual recommendations must help to present that image now as well into the future.

2. Overview of Requirement

The main areas for consideration are as follows:

- * Feature Wall
- * Opposing Map Wall
- * Reception Desk Area

3. Overview of Solution

In view of the fact that there are several options and considerations, rather than try to provide one definitive answer, a selection of recommendations will be suggested allowing both *** and (***) Architects) to ascertain the impact and feasibility of integrating the option as well as the cost.

The recommendations are divided as follows:

- a. Feature Wall: Display Screens & Digital Signage
- b. Feature Wall: Display Cabinets
- c. Transparent OLED Options
- d. Geochrons
- e. 3D Imagery and Holographs

4. Ultra-Wide Screens (LG 86BH5C)

One option worth considering is the 'ultra-wide' screen, in effect 4 screen widths in a single system.

This allows for an interesting screen installation of portrait or landscape with the screen being divided into 4 areas or a combination of displays.

Installation could mean a single screen across the top of the feature wall or down one side.

(More information at Annex A).





5. Feature Wall Display Screens & Digital Signage

The architectural drawings for the feature wall incorporate a screen to allow for digital signage and company information, be this via corporate video, pictures, images and such.

Apart from size, there are three other important considerations.

a. Digital Signage Capability

The size and placement of the screen(s) is subjective and can be inserted as required in portrait or landscape format. Depending on the brand, each screen will be connected via a network from its internal media player (Samsung) or external media box (other brands) back to the main operator who can update the information to the screen(s) as required.

The pricing shown below reflects a signage ready screen including bracket and install.

b. Brightness

The drawings show a brightly lit reception area with roof skylights. If this is the case, a higher brightness screen may be required and the screens coated with anti-glare film. Options for both standard and high bright screens are provided.

c. Usage

These screens will have a high use and although they can be scheduled to switch off for overnight periods, this is often forgotten. Consequently, 24/7 capable screens are recommended.

Screen	Dia	W (mm)	H (mm)	D (mm)	Wt (Kgs)	Bright (cd/m ²)	Op	Price
Ultra-Wide Screen (See Annex A)								
LG 86BH5C (58:9 ratio)	86"	2158.3	384.5	81.7	20.5	500	24/7	£ 6,279.79
Standard 55" Screens								
Samsung DH55E	55"	1237.2	713.5	52.4	17.1	700	24/7	£ 2,715.80
Ultra Bright 55" Screens								
Samsung OM55D-K	55"	1227	698.2	139.5	-	2500	24/7	£ 4,903.10
Standard 60" + Screens								
Sharp PN-R603	60"	1378	794	39.4	32	700	24/7	£ 3,889.29
Sharp PN-R703	70"	1578	916	39.4	43	700	24/7	£ 5,333.79
Ultra Bright 60" + Screens								
Sharp PN-A601	60"	1374	793	112	45	2000	24/7	£ 5,793.79
Samsung OM75D-K	75"	1675.8	953.8	128.1	-	2500	24/7	£ 12,091.91

* Pricing is inclusive of Media Player or licence for digital signage use, bracket and installation



6. Feature Wall: Display Cabinets

The feature wall shows several 'boxed' areas into which items can be placed for visitors to see.

The recommendation is to use or convert these into transparent LED Showcases. This allows a feature video to be run over the item giving additional information and an extra 'activity' to the wall.

The standard cases are made of aluminium and can be reproduced in most colours. They incorporate a media player into which a USB is inserted containing the relevant video or picture show.

See Video clips:

<https://youtu.be/se9XMsDR3go>

<https://youtu.be/hw6LbtFYgF8>

Most cabinets are rear loading and it is understood that the feature wall needs to retain its architectural design with the wooden encasements etc. It is suggested that these could be made to encompass the required transparent cabinets. They could slide into the encasement area and have a front clip on 'mask' to allow the video images and internal objects be easily seen.

When new objects are to be displayed, the cabinets are slide out, items replaced and cabinets slid back in with a new presentation.

Below are the dimensions of a range of cabinets. There are also smaller sizes, - 10" and 19" as well as larger sizes, 47", 55" and 84".

In addition, there are interactive touch versions allowing users to interact with the presentation for additional information etc.

Cabinet	Size	Outer Dimensions			Internal Dimensions			Wt (kgs)	Cost
		W (mm)	H (mm)	D (mm)	W (mm)	H (mm)	D (mm)		
Landscape Cabinets									
HB21-L	21.5"	578	379	219.5	478.4	270.1	186.6	16	£ 1,820.00
HB29-L	29"	574.47	381.97	219.5	672.77	283.87	-	-	£ 2,905.00
HB32-L	32"	818	538	405.3	695	389	364	20	£ 3,096.00
HB42-L	42"	1050	670	405.3	926	520	369	23	£ 4,066.00
Portrait Cabinets									
HB21-P									



7. Transparent OLED

These make a superb 'wing sign' or window feature as they allow presentations and video to be displayed across the screen and seen from both sides.

The consideration here is the potential to have a display protruding at right angles from the end of the feature wall alongside the reception desk.

They are connected to a media player and can replay any media normally delivered to a standard screen. In this scenario, a corporate style video as a welcome would be a good feature.

Important Note: The main supplier, Samsung is looking to cease UK screen manufactures and although there are some others on the market, they are the best. If this is a serious consideration, then it may be prudent to secure the product earlier rather than later.

* Cost:

55" OLED Transparent Screen (Installed with Media Player): £ 12,718.75

See video clip: <https://vimeo.com/198356785>



8. Geochron

The reception area is to have a world map displayed on the opposite wall to the feature wall in the reception area. This will have magnetic indicators to show various locations around the world.

It would be an excellent feature to have a Geochron associated with this map. Not only will it provide world times adjusting for seasons and showing day / night areas as a physical representation, but do so as an outstanding piece of technology and provide a great talking point.

Infact, this could be installed anywhere from the reception to board rooms and has various surrounds from Brushed Aluminium to a very wide range of woods and veneers.

The standard panels are 87 x 57 cms for the Contemporary model (steel and aluminium), Kilburg (laminated vinyl surround) and Executive (wood veneer) and the Boardroom Model (wood or accent mounding surrounds) are 92 x 62 cms.

Maps can be political, topographical or a combination of both.

Generally installed either into a recess or surface mounted, it is also possible to purchase a wood display mount for table tops.

A video can be see at: <https://youtu.be/YY7KVJ2dFWc>

* Typical Cost (installed) with example surrounds

* Kilburg (<i>Black Goatskin / Boston Cherry / Russian Maple ? Designer Oak</i>)	£ 2,350.00
* Contemporary (<i>Brushed Aluminium</i>)	£ 2,550.00
* Contemporary (<i>Brushed Stainless Steel</i>)	£ 2,650.00
* Contemporary (<i>Polished Stainless Steel</i>)	£ 2,850.00
* Executive (<i>Cherry / Black Oak / Honey Oak / Hickory / Mahogany / Walnut</i>)	£ 2,750.00





Examples of Geochron's in various installations

9. 3D Imagery & Holographs

There are some outstanding 3D holographic images that can be created to feature any aspect of a company's work, be that products, locations or 'storylines'.

Located in reception areas, these can be an instant 'wow' for visitors and give the company a futuristic feel.

a. Dreamoc

This is a display that allows 3D holographic images to be shown. For the best idea, view the following links showing the product in action.

<https://fast.wistia.net/embed/iframe/p2ebyp497v?videoFoam=true&wvideo=p2ebyp497v>

There are various sizes available and the software, once created is played from a USB key set into the rear of the box.

i. PoP3

The PoP3 is a box version which would be in keeping with the rest of the boxes on the feature wall. It allows for either stand-alone holograms to be played or for holograms designed to interact with an object inside the box.

This solution is 548 x 370 x 500 mm and weighs 13 kgs.

Cost is approx.: **£ 1,500**

(Excludes any holographic software - Holographic software can range from £ 150 to several thousand pounds depending on content, length and interactivity).

More information available on request.

See the following video clip:

<https://fast.wistia.net/embed/iframe/zt0a6ev31c?videoFoam=true&wvideo=zt0a6ev31c>





ii. DREAMOC HD3

This is a 3-sided cabinet allowing a hologram to be viewed from each side in the cabinet. Again, this can be a stand alone hologram or interacting with an object inside the cabinet.



The HD3 is the smaller version measuring approx.

(W x H x D) 560 x 330 x 330 mm

Cost is approx. £ 1,930 (Excludes stand or flight case)

Holographic content as for the PoP3 ranges from a few hundred to a few thousand pounds.

iii. DREAMOC XL3

The larger version of the above cabinet measuring 1035 x 685 x 550 mm

Cost is approx. £ 7,000

The link below is an example of a free-floating hologram created for Pratt Banana's and designed for the XL3. Cost was approx. £ 2,750 for design to completion.

<https://youtu.be/zStdFEfexwE>

b. HoloThrow.

The HoloThrow projects a realistic 3D image 'outside' of the box into mid-air.

Objects can be any new products for example *** might wish to show and the Holographic Projection Box could sit within one of the designed feature wall boxes.

There are two versions:

i. HoloThrow Small:

- * W x H x D: 440 x 660 x 340 mm
- * Weight: 25 kgs
- * 3D Image Size: up to 15 cm
- * Viewing Distance: 61 – 304 cm
- * Focal Length: up to 61 cm
- * Approx Price: £ 4,750



ii. HoloThrow Large:

- * W x H x D: 927.1 x 787.4 x 584.2 mm
- * Weight: 56 kgs
- * 3D Image Size: up to 15 cm
- * Viewing Distance: 61 – 304 cm
- * Focal Length: up to 91 cm
- * Approx Price: £ 9.950



FL-00: Flexible Meeting Room – Option 1

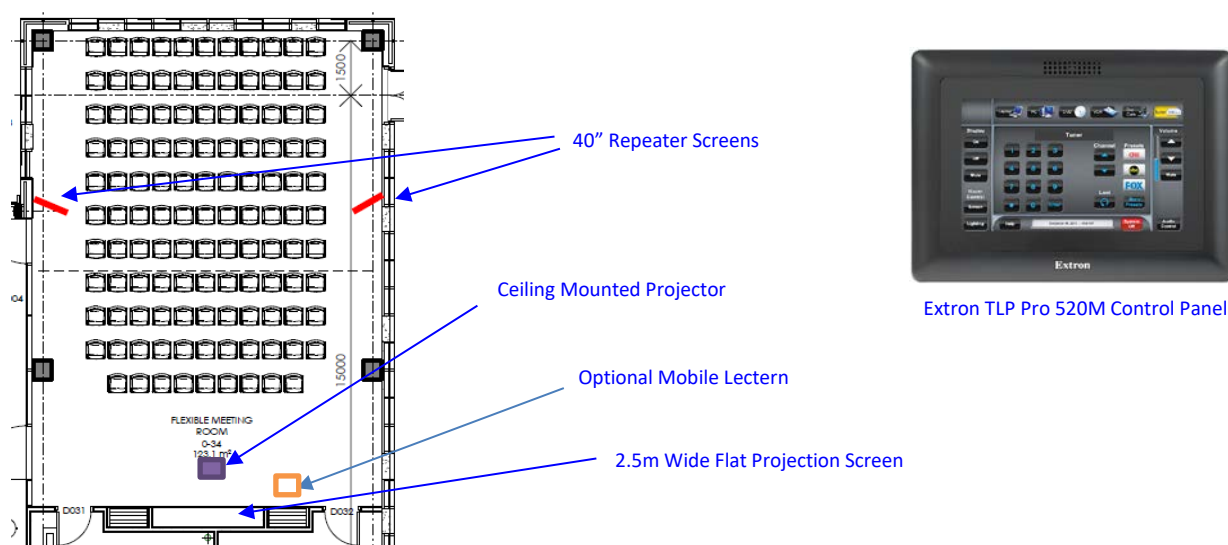
Front Projection

1. Overview of Requirement

This is one of the larger room environments and the main presentation and lecture space. The room will either be used in a full open theatre style configuration or, can be divided into two separate spaces.

There is to be repeater monitors along each wall for those at the rear and the ability for full room video conferencing.

2. Plan View



3. Overview of Solution

This option considers the installation with a 2.2 m wide, 1.37 m high flat wall mounted screen and ceiling mounted projector.

Projector brightness requirements are usually calculated for a minimum of 1000 ANSI Lumens per m². With the 2.2 m screen, the projector must be at least 5,000 ANSI Lumens and preferably HD for future-proofing. Considerations include laser technology systems to reduce lamp-life usage.

The system requires a matrix to allow for the switching between various inputs including a fixed PC, VC system, guest HDMI / VGA inputs and wireless connectivity.

The audio solution must cater for general presentations as well as the video conferencing system. There will be 6 x ceiling speakers plus two room facing speakers. A contact-switch in the room divider panels will automatically switch off the ceiling speakers and repeater screens if the room is divided into two.

Ceiling microphones will work in conjunction with the VC system, however for any general presentations where feedback is required from the audience, they will be inactive due to their proximity to the speakers and feedback issues. It is recommended that wireless hand-held microphones be considered for the audience if required.

An easy to use button control panel will allow the system to be switched on and off, various inputs selected and volume control.

One of the upgrade options for consideration is the addition of a lectern. This will house the main PC and equipment along with a repeater screen for the presenter.



4. Main Equipment Matrix

The following items are the main systems for this area:

No	Equipment	Total Cost	Comment
1	Epson EB-2165W	£ 1,634.10	Ceiling Projector, 3LCD . WXGA . 5,000 ANSI Lumens
1	Mounting Bracket	£ 65.00	Projector ceiling mount
1	Projection Screen	£ 445.90	2.2 m wide (16:10) Flat, wall mounted, no frame projection screen
2	Sony FWL-40W705C	£ 1,144.00	40" Side wall repeater monitors
2	B-tech BT8221	£ 312.00	Swing out wall brackets for repeater monitor
1	Extron DTP 84 IPCP MA 70	£ 7,680.00	8 x 4 scaling presentation matrix switcher
1	Extron TLP Pro 520M	£ 1,072.00	Touch Button Control Panel
1	Extron XTP PI 100 PoE Inj.	£ 196.00	Power bank for Control Panel
3	Extron DTP HDMI 4k Rx	£ 900.00	DTP receiver for HDMI (for distances to long for standard HDMI)
1	Extron DTP HDMI 4k Tx	£ 300.00	DTP Transmitter for HDMI
1	Extron WPC 220 C	£ 118.00	Flat connection panel for VGA, HDMI and audio cable
1	Extron RBG-HDMI 300	£ 466.00	VGA to HDMI Converter (for connectivity to Matrix switcher)
1	Extron XPA 1002 Amp	£ 638.00	For forward speaker system
5pr	Extron SF-26CT Speakers	£ 1,670.00	3 pair ceiling Soundfield speakers
1pr	Extron SI-28 Speakers	£ 286.00	Forward facing wall speakers
6	Audio Technic ES947 Mic	£ 949.80	Ceiling mounted Cardoid Condenser Boundary Microphones
1	WePresent 2000 Bundle	£ 765.70	Wireless Presentation system
1	Wireless Microphone Set	£ 499.00	Wireless Tie Mic and receiver (option for hand-held)
1	Cables & Connectors	£ 700.00	Cables and connectors
-	VC System	---	To be considered separately
-	Lectern	---	To be considered separately
3	Installation	£ 1,800.00	3 days Installation works
1	System programming	800.00	Extron System Programming
1	Equipment Hire	£ 500.00	Scaffold / Platform Lift

* These items are replaced for Option 2

OVERALL ROOM COST: £ 22,941.50

5. Installation

The installation will require approximately 3 days to complete. In addition, a short platform lift or podium scaffold system will be required to allow for access in the ceiling areas. This is for projector, speaker, microphone and cable installation.

The system drawings for the overall layout are provided along with additional install considerations.

* See PART 3: SYSTEM DRAWINGS & INSTALLATION



6. Warranties & Maintenance

All hardware systems are covered by a 3-year on-site advanced warranty unless specified.

Microphone systems have a two-year warranty cover.

Installation, cables and connectors have a 12-month warranty with option for maintenance extension

7. Potential Upgrades

The option for a video wall or rear projection is considered separately in the next sections.

a. Lectern

This would be a mobile lectern that could be moved into place for any presentations but pushed back when not required.

The cables would be within a neat umbilical via an under-floor connector and allowing for a degree of positioning on one side of the screen.

i. Benefits

Lecterns allow presenters to have a point from which they can speak, keep notes and easily control any presentation.

The lectern would contain a repeat monitor in the top along with the control panel and connections for guest users (e.g. HDMI / VGA etc.). The WePresent SharePod means that additional devices such as visualiser / document cameras can also be used and connected to the system.

ii. Additional Cost

Total cost to implement and install are shown with several examples below.

More details and other options can be seen at Annex I.



DDA PP-1200
£ 4,023.50



Dalen Explorer
£ 2,387.07



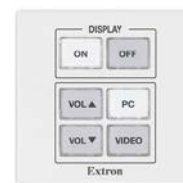
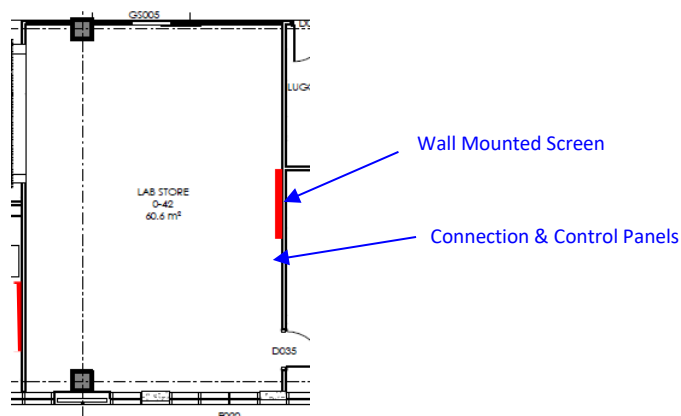
FL-00: Lab Store

1. Overview of Requirement

Ground Floor Lab Store. Requirement for a wall mounted screen centre to main wall alongside entry door. Solution to be used by staff for general programme and presentation overviews.

Will require ability to connect either wirelessly or by cable to screen.

2. Plan View



3. Overview of Solution

65" Sony Monitor, wall mounted with WePresent 2000 Wireless Presenter system.

An Extron Connection plate for HDMI and VGA + audio with an Extron Control Panel for on / off, volume and input selection will be wall mounted alongside. (Images above).

4. Main Equipment Matrix

The following items are the main systems for this area:

Ref	Equipment	Cost	Comment	W
1	Sony FWL-65W855C	£ 1,716.00	Main 65" LED monitor	3
1	Peerless PeerSF650P	£ 63.30	Wall Mounting Bracket	3
1	WePresent WIPG-2000	£ 765.70	Wireless Presentation Bundle (included SharePod)	2
1	Extron WPC 220 MK	£ 118.00	Wall Connection plate for HDMI / VGA & Audio to screen	3
1	Extron MLC 55 RS MK	£ 280.00	Wall mounted controller: ON / OFF - Volume - Input Selection	3
1	Cables & Connectors	£ 15.00	HDMI / VGA / Audio	1
0.5	Installation	£ 300.00	Based on half-day install rate	1

W: Warranty Period (Years)

OVERALL ROOM COST: £ 3,273.00



5. Upgrade Options

The following are potential upgrades and alternatives for this area

Opt	Equipment	Cost Diff	Comment	W
A	Sony FWL-75W855C	+ £ 864.50	75" LED Monitor for larger screen views	3
B	SMART Kapp 65	+ £ 1,237.95	65" Interactive Touch Screen	3
C	CleverTouch Pro 65	+ £ 5,426.50	65" Interactive Touch Screen with Android	5

* Cost Diff: Difference in price to be added / subtracted from room total cost

6. Installation & Set Up Observations

a. Specifications

System	Weight (Kgs)	Width (mm)	Height (mm)	Depth (mm)	Comments
Sony 65" Main Monitor	23.4	1455	843	79	
Wall Bracket (Wall Plate)	2.89	784	234	40	See Annex C for install details
Wireless Presenter	0.28	159	30	91	See Annex E

Opt A: 75" Monitor	33.7	1677	969	79	
Opt B: 65" SMART Kapp IQ	62.4	1508	978	120	
Opt C: CleverTouch Pro 65	66	1544	913	98	

b. Utilities

System	PWR	Net	AS	Comments
Main Monitor	✓			(Power - Usually behind screen position and out of sight)
Wireless Presenter	✓	✓		External Power Adapter (DC 5v 2.6A) – power socket behind screen
Button Controller	✓			Power adapter

Op B: SMART Kapp IQ	✓	✓		If selected – requires network connection for internal and internet
Op C: CleverTouch Pro	✓	✓		If selected – requires network connection for internal and internet

Pwr: Power Required . **Net:** Network Points required . **AS:** Additional Support or design feature required

c. Extra Considerations

System	Comments
Op B: SMART Kapp IQ	If selected - Additional Wall Strengthening: system is heavier screen with heavier bracket
Op C: CleverTouch Pro	If selected - Additional Wall Strengthening: system is heavier screen with heavier bracket

COMMENT BOX

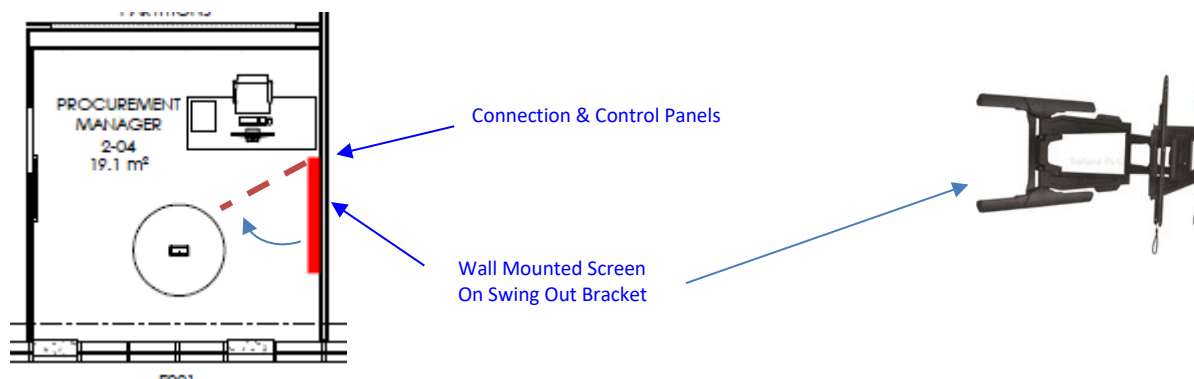


FL-00: Procurement Manager

1. Overview of Requirement

Small personal office with requirement for wall mounted LED for general meetings.

2. Plan View



3. Overview of Solution

For size of room, Sony 48" screen recommended on a swing-wall mounted bracket. This will allow user to face screen as required including in-front of their desk as secondary work screen.

Connectivity will be via standardised wall and control panels. Wireless connectivity via the standard WePresent Wireless Presentation system.

4. Main Equipment Matrix

The following items are the main systems for this area:

Ref	Equipment	Cost	Comment	W
1	Sony FWL-48W705C	£ 741.00	48" Sony Monitor	3
1	B-Tech BT8221	£ 156.00	Swing / Tilt Wall Mounted Bracket	3
1	WePresent WIPG-2000	£ 765.70	Wireless Presentation System	2
1	Extron WPC 220 MK	£ 118.00	Wall Connection plate for HDMI / VGA & Audio to screen	3
1	Extron MLC 55 RS MK	£ 280.00	Wall mounted controller: ON / OFF - Volume - Input Selection	3
1	Cables & Connectors	£ 15.00	HDMI / VGA / Audio	1
0.5	Installation	£ 300.00	Based on half-day install rate	1

W: Warranty Period (Years)

OVERALL ROOM COST: £ 2,375.70

5. Upgrade Options

The following are potential upgrades and alternatives for this area

Opt	Equipment	Cost Diff	Comment	W
No upgrades identified for this area				

* Cost Diff: Difference in price to be added / subtracted from room total cost



6. Installation & Set Up Observations

a. Specifications

System	Weight (Kgs)	Width (mm)	Height (mm)	Depth (mm)	Comments
Sony FWL-48W705C	11.3	1089	632	57	See Annex A for full details
Wall Bracket (Wall Plate)	8	650	353	37	See Annex C for install details
Wireless Presenter	0.28	159	30	91	See Annex E

b. Utilities

System	PWR	Net	AS	Comments
Main Monitor	✓			(Power - Usually behind screen position and out of sight)
Wireless Presenter	✓	✓		External Power Adapter (DC 5v 2.6A) – power socket behind screen
Button Controller	✓			Power adapter

Pwr: Power Required . Net: Network Points required . AS: Additional Support or design feature required

c. Extra Considerations

System	Comments
Button Controller	Fits within standard 1 gang electric MK external wall box: Flush setting into wall preferred – locate as convenient
Wall Connection plate	Wall Strengthening - Due to swing out from wall – extra cantilever effect
Wireless Presenter	Located behind screen and connected to HDMI port

COMMENT BOX

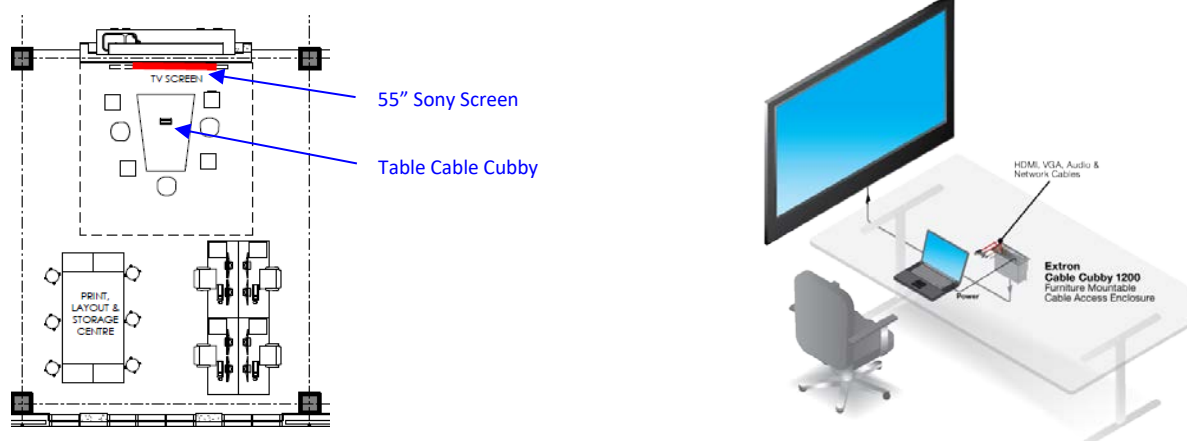


FL-00: Ground Floor 'Huddle' Space

1. Overview of Requirement

The 'Huddle' space actually consists of a (movable) table in-front of, but not connected to a feature wall with a 55" monitor. It is designed to allow for ad-hoc meetings and for users to connect various devices to a screen for presentations and discussions.

2. Plan View



3. Overview of Solution

The 55" screen will be wall mounted. Within the centre of the table will be a Cable Cubby to allow for wired connection with HDMI, VGA and audio if required.

In addition, within the Cable cubby, there will be an Extron Button Control Panel (standard to this project) to allow for simple functions at the screen including ON/ OFF, Input Selection and Volume Control. Cabling will be under table and floor to avoid hazards.

A WePresent wireless presentation unit will allow for any wireless device to connect to the screen as well.

4. Main Equipment Matrix

The following items are the main systems for this area:

Ref	Equipment	Cost	Comment	W
1	Sony FWL-55W805C	£ 1,189.50	55" Wall mounted monitor	3
1	PEERSF650P Bracket	£ 63.30	Wall Mounting plate	3
1	WePresent WiPG-2000	£ 765.70	Wireless presentation / connection system	2
1	Extron Cable Cubby	£ 1,090.00	Includes 1 x 3 pin and 2 x USB chargers, cables and button control panel	3
1	Cables & Connectors	£ 50.00	Under table cables and connectors	1
1	Day Installation	£ 600.00	Installation and programming	1

W: Warranty Period (Years)

OVERALL ROOM COST: £ 3,758.50



5. Upgrade Options

The following are potential upgrades and alternatives for this area

Opt	Equipment	Cost Diff	Comment	W
No upgrades identified for this area				

* Cost Diff: Difference in price to be added / subtracted from room total cost

6. Installation & Set Up Observations

a. Specifications

System	Weight (Kgs)	Width (mm)	Height (mm)	Depth (mm)	Comments
Sony FWL-55W705C	17	1230	715	61	See Annex A for full details
Wall Bracket (Wall Plate)	8	650	353	37	See Annex C for install details
Wireless Presenter	0.28	159	30	91	See Annex E
Cable Cubby	2.1	254	16.5	102	Cut out dimensions

b. Utilities

System	PWR	Net	AS	Comments
Main Monitor	✓			(Power - Usually behind screen position and out of sight)
Wireless Presenter	✓	✓		External Power Adapter (DC 5v 2.6A) – power socket behind screen
Button Controller	✓			Power adapter
Cable Cubby	✓	✓	✓	See Annex F

Pwr: Power Required . **Net:** Network Points required . **AS:** Additional Support or design feature required

c. Extra Considerations

System	Comments
Cable Cubby	* Require cutting into table top (templates available – See Annex F) * Under-floor connection for VGA, HDMI, Audio, Network, Power cables to screen
Wireless Presenter	Located behind screen and connected to HDMI port

COMMENT BOX



FL-01: Mobile Screens (x 3)

1. Overview of Requirement

There is a requirement for 3 x mobile trolley solutions; all based on the upper floor, one is for the 'support' area and two for the 'software' area.

Basic screens would be 65" LED monitors on mobile trolleys although the recommendation is to consider the 65" Interactive SMART Kapp IQ to provide additional functionality and flexibility.

2. Plan View



Sahara Hi / Lo Electric Stand



SMS Presence Motorised Mobile Stand

3. Overview of Solution

The selected screen would be mounted onto the trolley of choice. The Sahara Trolley offers an electric lift capability whilst the A&K SMS Presence has a slight better aesthetic look.

The 65" Sony screen would have a wireless presentation system allowing users to connect with any wireless device. However, for greater functionality and flexibility, an interactive system should be considered.

The SMART Kapp IQ will allow for interactive whiteboard functionality along with the wireless connection of other devices.

The CleverTouch V has a built in Android system with included apps allowing greatest flexibility – use as a stand-alone interactive whiteboard, internet browser, connect to your network and share presentations.

4. Main Equipment Matrix

The following items are the main systems for this area:

No	Equipment	Cost	Comment	W
3	Sony FWL-65W855C	£ 5,148.00	65" LED Screen	3
3	Sahara Hi / Lo Trolley	£ 2,726.10	Electric Raise / Lower Trolley	3
3	WePresent 2000	£ 2,297.10		2
1	Installation day	£ 600.00		

W: Warranty Period (Years)

OVERALL SYSTEM COSTS: £ 10,771.20



5. Upgrade Options

The following are potential upgrades and alternatives for this area

Opt	Equipment	Cost Diff	Comment	W
A	65" SMART Kapp IQ	+ £ 2,327.10	Cost difference <i>per</i> SMART Kapp IQ upgrade	3
B	65" CleverTouch V	+ £ 1,966.00	Cost difference <i>per</i> CleverTouch upgrade	3
C	A & K Presence Trolley	+ £ 365.30	Cost difference <i>per</i> Mobile Stand Upgrade upgrade	

* Cost Diff: Difference in price to be added / subtracted from room total cost

6. Installation & Set Up Observations

a. Specifications

System	Weight (Kgs)	Width (mm)	Height (mm)	Depth (mm)	Comments
Sony 65" Main Monitor	23.4	1455	843	79	
Wall Bracket (Wall Plate)	2.89	784	234	40	See Annex C for install details
Wireless Presenter	0.28	159	30	91	See Annex E

b. Utilities

System	PWR	Net	AS	Comments
Main Monitor	✓			Will require power block an long lead for use anywhere to local power point
Wireless Presenter	✓			Connect into power block (as above)

Pwr: Power Required . **Net:** Network Points required . **AS:** Additional Support or design feature required

c. Extra Considerations

System	Comments
Hi / Lo Trolleys	Both trolleys have electric height adjustment for easy use and movement around office

COMMENT BOX



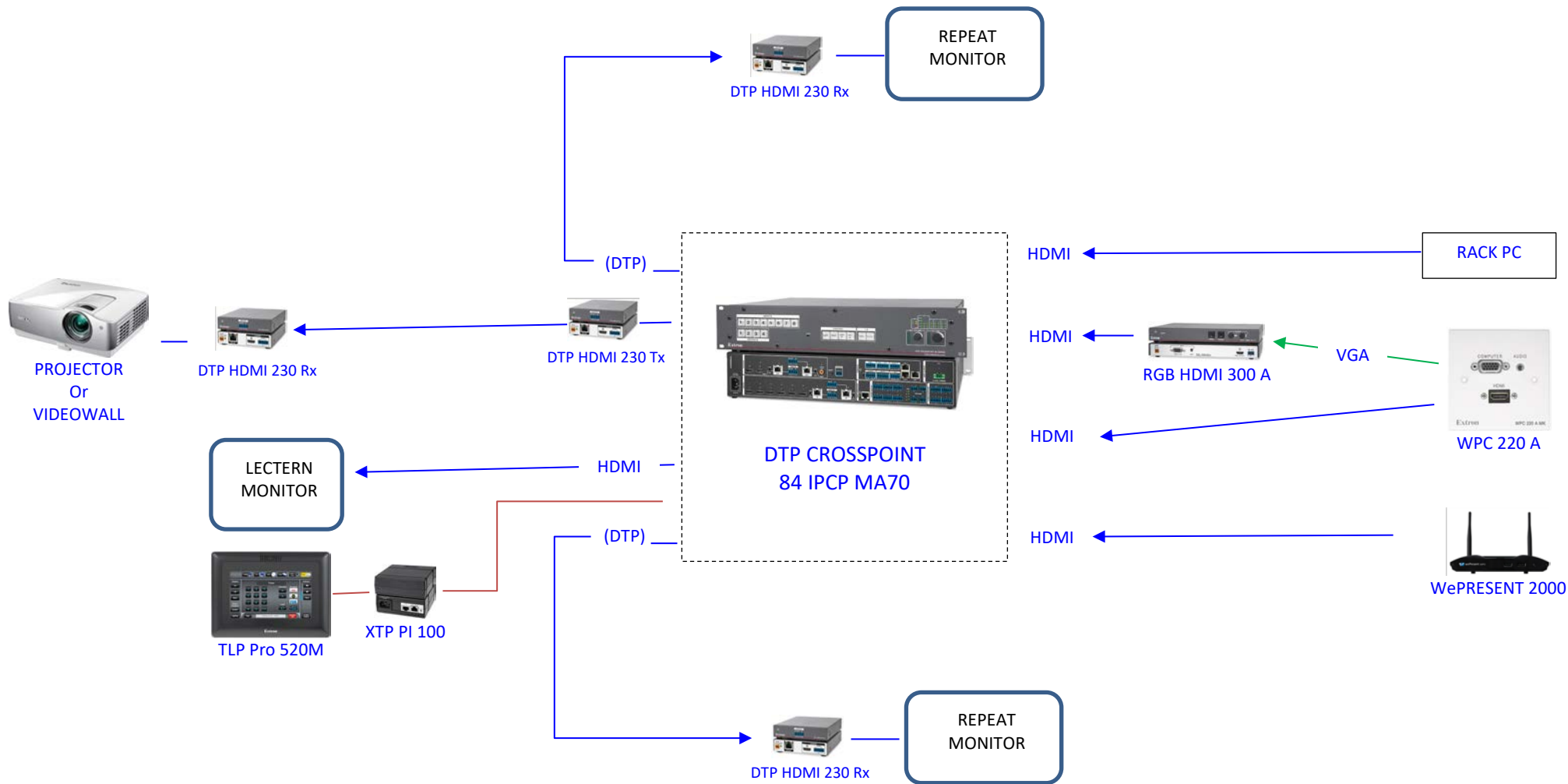
PART 3

SYSTEM DRAWINGS and PROJECT INFORMATION



FLEXIBLE MEETING ROOM: SYSTEM DESIGN

A: VIDEO

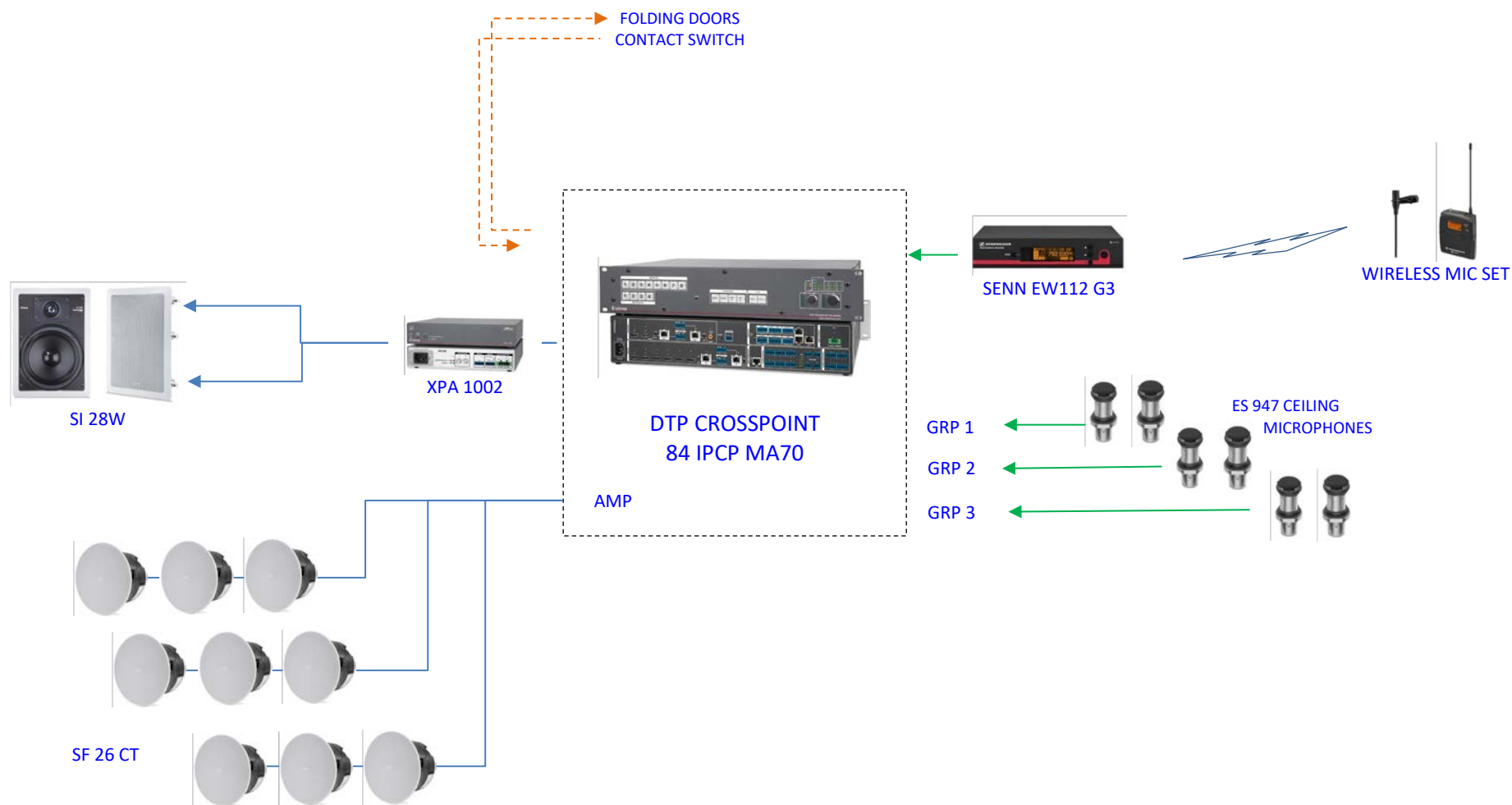


(Note: Assumes Matrix housed in Lectern)



FLEXIBLE MEETING ROOM: SYSTEM DESIGN

B: AUDIO





STANDARD WALL MOUNTED CONFIGURATION

The following is the standard layout for each of the rooms with a wall mounted monitor, control and connection box and wireless presenter.





PART 4

PROJECT OVERALL COST



OVERALL PROJECT COSTS

1. By Area / Room

	Area / Room	Total Cost	Considered Budget A	Considered Budget B
1	FL-00: Reception	To Be Decided		
2a	FL-00: Main Meeting Room – Option 1	To Be Decided	£ 22,941.50	
2b	FL-00: Main Meeting Room – Option 2	To Be Decided	£ 36,860.58	
2c	FL-00: Main Meeting Room – Option 3	To Be Decided	£ 26,472.20	
3	FL-00: Games room	£ 2,731.50		
4	FL-00: Cafeteria	£ 4,048.80		
5	FL-00: Lab Store	£ 3,273.00		
6	FL-00: Procurement manager	£ 2,375.70		
7	FL-00: Ground Floor ‘Huddle Space’	£ 3,758.50		
8	FL-00: EWRG	£ 2,731.50		
9	FL-00: Open Meeting Area	£ 8,975.92		
10	FL-00: Corridor Open Pod Area	£ 2,731.50		
11	FL-00: Data preparation Area	£ 3,258.00		
12	FL-01: Meeting / Board Room	£ 5,557.60		
13	FL-01: PK Office	£ 2,375.70		
14	FL-01: System Support (4 / 8) Wall screen	£ 2,371.50		
15	FL-01: Meeting Room 2	£ 3,258.00		
16	FL-01: Meeting Room 3	£ 3,258.00		
17	FL-01: Large Meeting Room	£ 4,693.00		
18	FL-01: Meeting Room (1-01)	£ 3,258.00		
19	FL-01: Open Area (Next to WEB)	£ 3,258.00		
20	FL-01: Meeting Room 1	£ 2,731.50		
21	FL-01: Review Room 1	£ 2,731.50		
22	FL-01: ‘Huddle’ Space	£ 3,758.50		
23	FL-01: Mobile Screen (System Area)	£ 3,590.40		
24	FL-01: Mobile Screen (Software Dev 1)	£ 3,590.40		
25	FL-01: Mobile Screen (Software Dev 2)	£ 3,590.40		
*	Lecterns	To Be Decided	£ 4,023.50	£ 2,387.07
*	Video Conferencing	To Be Decided	Realistically, £ 19,000 - £ 44,000	
*	Initial Design Consultancy	- £ 600.00	Initially £ 1,000 less 60% rebate	
*	Operations Manuals	£ 1,200.00	Additional Boxed manuals at £ 250 ea	
*	Programming / Commissioning / Handover (3 days +)	£ 2,000.00	Prog at £ 800 day + 2 x day at £ 600	
*	Training Days (Signage / WePresent / Interactive etc.)	£ 995.00	1 day charges / 2 x days free	
*	Additional Expenses (Access Equip / Deliveries / Accn)	£ 2,500.00	Collective Total	
*	Annual Enhanced Maintenance Support	To Be Decided	Based on overall equipment costs	
	OVERALL TOTAL	£ 88,001.92	Excludes highlighted areas	



2. By Section

Note: Following are provided as a guideline and are not accurate at this stage due to the indecision regarding the final Reception, Flexible Meeting Room, Lecterns and Video Conferencing requirements.

Section	Total	Comments	No Days
Design & Consultancy	- £ 600.00	<i>Refund of 60% given from original fee £ 1,000</i>	
Project Management	0		
Equipment (Hardware)	£ 86,433.70	<i>Based on Known rooms plus Flexible Mtg Room Option 1</i>	
Installation Systems (Hardware)	£ 5,709.62	<i>Brackets, Cables & Connectors</i>	
Installation (Manpower)	£ 12,500.00	<i>1 x 2 man team (Includes programming, commissioning etc.)</i>	20.5
Training	£ 995.00	<i>Digital Signage Training (Rest provided Free – WePresent etc.)</i>	3
Manuals	£ 1,200.00	<i>Production and delivery 1st Manual : Additional at £ 250 ea</i>	
Maintenance & Support	£ 4,607.17	<i>Gold Level based on hardware and installation hardware</i>	
Expenses	£ 2,500.00	<i>Includes collective deliveries, overnight accommodation, IPAF</i>	
OVERALL TOTAL	£113,345.49	<i>Excludes Reception, Lecterns, Video Conferencing</i>	

3. Project Cost by Main Equipment

Note: Totals are based on the known requirements at the time of writing and exclude potential screens required for the Reception or changes to the Flexible Meeting Room

System	No Identified	Total Cost	Comments
LFD LED Screens 40"	2	£ 1,144.00	
LFD LED Screens 48"	2	£ 1,482.00	
LFD LED Screens 55"	9	£ 10,705.50	
LFD LED Screens 65"	10	£ 17,160.00	
LFD LED Screens 75"	1	£ 2,850.50	
CleverTouch 65 Pro	1	£ 7,142.50	<i>Could be exchange for SMART Kapp IQ saving £ 3,099.40</i>
Samsung DM55E	0	£ 0.00	
SMART Kapp IQ 65	0	£ 0.00	
WePresent 2000	17	£ 16,845.40	
Cable Cubby Sets	5	£ 4,360.00	
WPC 220 C	15	£ 1,770.00	
MLC 55 RS	14	£ 3,920.00	
PeerSF650P	17	£ 1,076.10	
Peer PLP-UNLP-S	1	£ 93.42	
B-Tech BT8821	4	£ 624.00	
Hi / Lo Trolley	3	£ 2,727.10	
Extron Matrix	1	£ 7,680.00	
Extron Control System	-	£ 9,214.33	<i>Remain items including speakers / mics etc. for Flexible Mtg Rm</i>



ANNEXES



BRACKETS & STANDS

1. PEERSF650P WALL BRACKET

Peerless flat to wall mount for LCD / Plasma / LED screens 37" to 75". The low profile design holds the screen only 43 mm away from the wall.

This is the basic bracket for most of the rooms.



a. Dimensions

Weight: 2.88 kgs

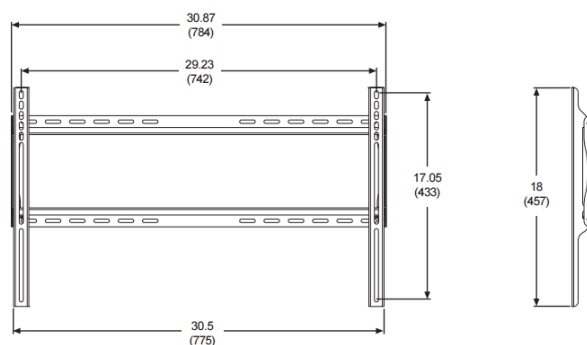
See images alongside and below

b. Areas of Use (x 16)

- * FL-00: Games Room
- * FL-00: Cafeteria
- * FL-00: Lab Store
- * FL-00: Corridor Meeting Pod
- * FL-00: Ground Floor Huddle Space
- * FL-00: EWRG
- * FL-01: Main Meeting Room
- * FL-01: Meeting Room 2
- * FL-01: Meeting Room 3
- * FL-01: Meeting Room (1-02)
- * FL-01: Large Meeting Room
- * FL-01: System Support Area
- * FL-01: Review Room 1
- * FL-01: Meeting Room 1
- * FL-01: First Floor Huddle Space
- * FL-01: Open Area (Near WEB)

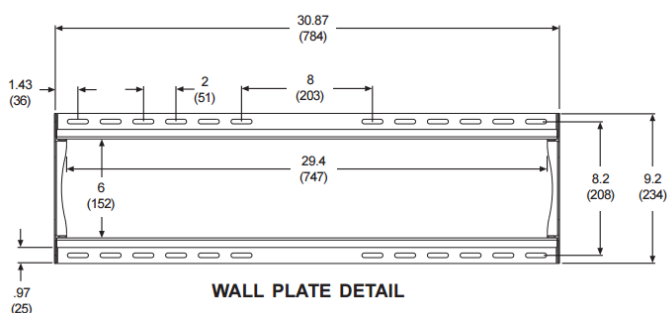


TOP VIEW

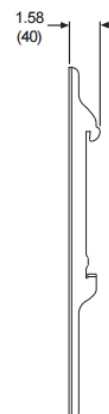


FRONT VIEW

SIDE VIEW



WALL PLATE DETAIL



ADAPTER BRACKET DETAIL



2. PEER-PLP-UNLP-S

Peerless flat to wall mount for LCD / Plasma / LED screens 32" to 75" and weighing up to 90 kgs. This is for use with the larger, heavier interactive screens.

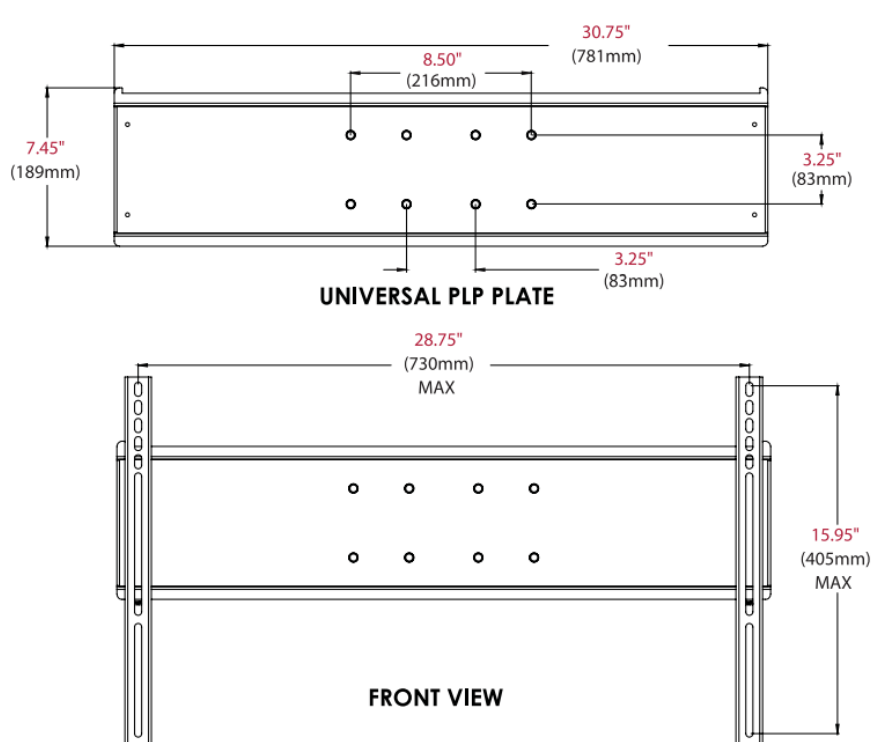
a. Dimensions

- * Weight: 5.2 kgs

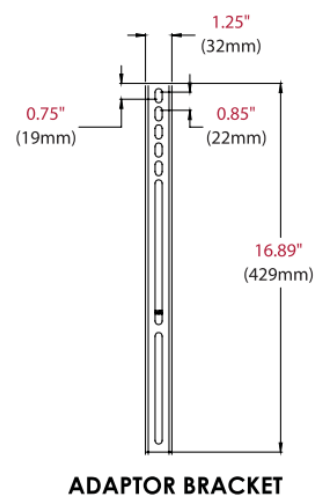
See images alongside and below

b. Areas of Use (x 2)

- * FL-00: Open Meeting Area
- * FL-00: Data Preparation Area



All dimensions = inch (mm)





3. B-TECH BT8221 SWING WALL MOUNT

A full motion mount, ideal for corner or angled screen mounting. Will take screens up to 65" and 36 kgs.

Ultra slim design, features three swivel points, integrated cable management and attractive cover plates to hide fixings.



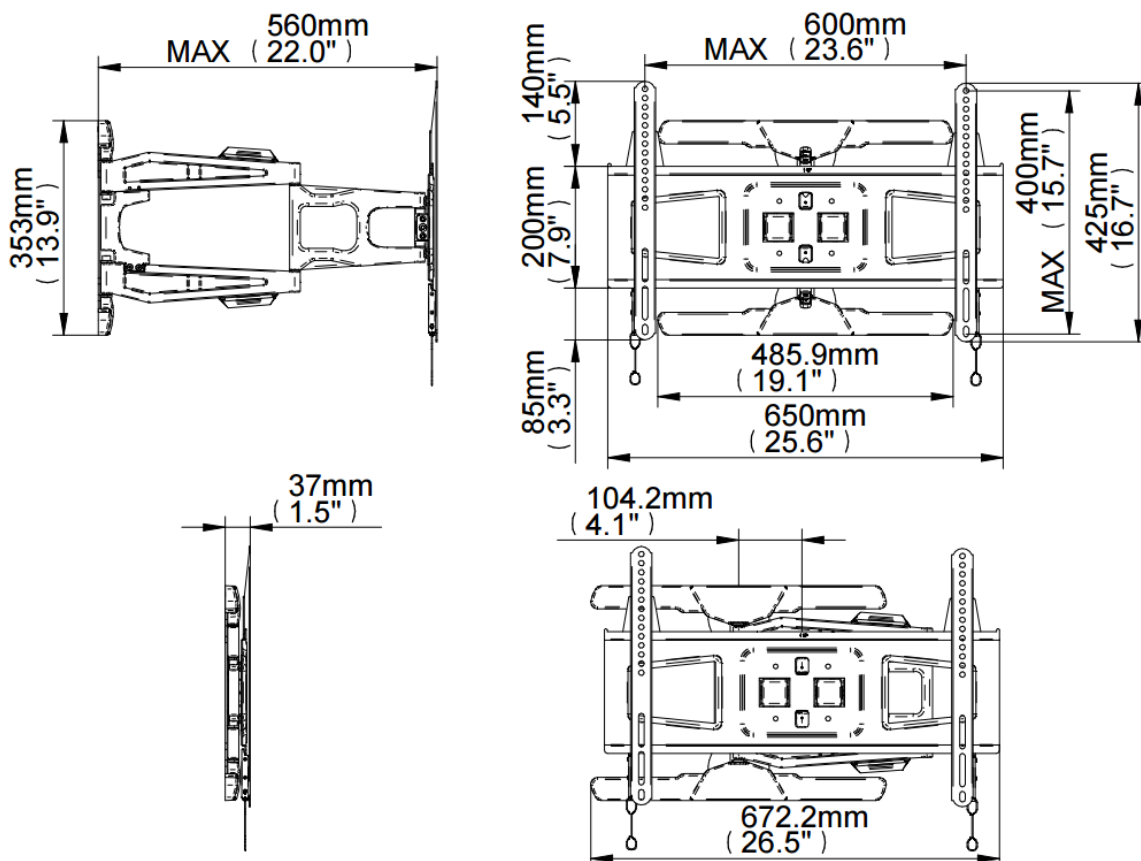
a. Dimensions

- * Weight: 8 kgs

See images alongside and below

b. Areas of Use (x 2)

- * FL-00: Flexible Meeting Room x 2
- * FL-00: Procurement Manager's Office
- * FL-01: PC Office





4. MOBILE TROLLEY STAND

a. **CleverTouch Mobile Trolley**

This is the initial option recommended. An excellent, functional mobile trolley with electric height adjustment for 55" to 84" displays.

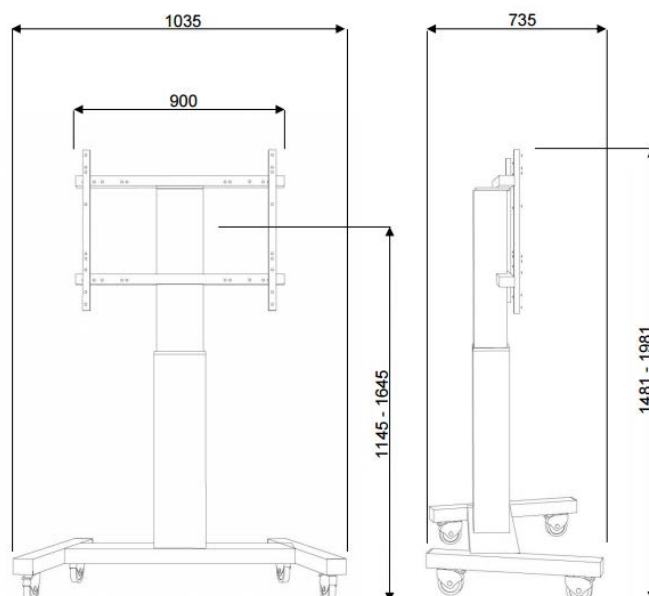
i. **Dimensions**

- * Weight: 36 kgs
- * Max weight Load: 137 kgs
- * Electric Height Adjustment: 500 mm
- * Height at centre of screen: 1145 – 1645 mm

See images alongside and below

ii. **Areas of Use (x 2)**

- * Tech Support / Systems Area x 1
- * Web / Software Development Area x 2



b. **SMS Presence Mobile Motorised**

This is the optional alternative to the Sahara Trolley above. A slightly more elegant look with the ability to hide cables inside, but at an increased cost.

i. **Dimensions**

- * Weight: -
- * Max weight Load: 150 kgs
- * Electric Height Adjustment: 500 mm
- * Height at centre of screen: 1233 – 1733 mm





CONTROL PANEL

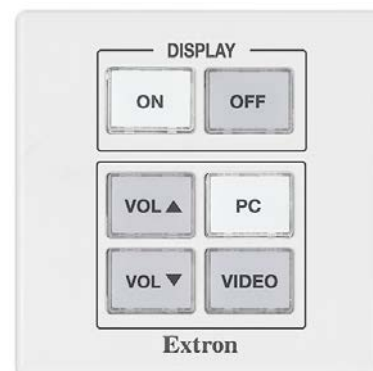
Extron MCL 55 RS MK

This is the main button controller being used throughout the project to standardise operations for each room and system.

Designed to mount in an external wall box, it has discrete ON and OFF display power controls, configurable buttons and dual colour, backlit buttons that can be labelled for easy identification.

The intention is for:

- * ON / OFF Buttons to control main screen
- * VOLUME Buttons (up / down)
- * WIRELESS Connectivity – switches to HDMI with wireless presenter
- * WIRED Connectivity Button – toggles between second HDMI and VGA in for cable connections



a. Specifications

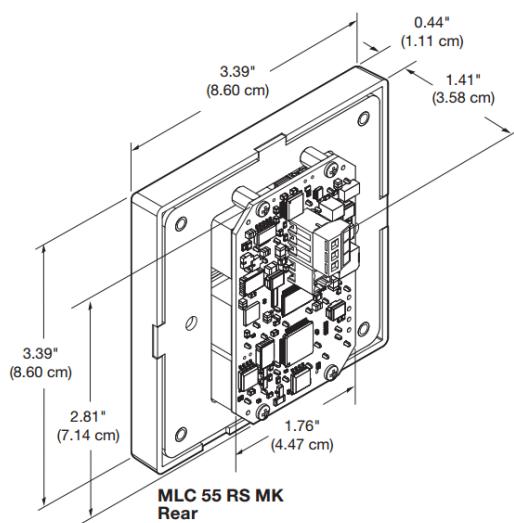
- * Faceplate: (HxWxD) 86 x 86 x 11 mm
- * Device: (HxWxD) 71.4 x 44.7 x 35.8 mm
Depth includes connectors
Allow enough depth in the wall box for device plus cable clearance

b. Power Supply

- * External
- * Input: 100 – 240 VAC, 50 – 60 Hz
- * Output: 12 VDC . 1A . 12 watts

c. Power Consumption

- * Device: 1.1 watts . 12 VDC
- * Device & PS 1.5 watts . 100 – 240 VAC 50 – 60 Hz





d. Areas of Use (x 14)

- * FL-00: Games Room
- * FL-00: Lab Store
- * FL-00: Procurement Manager's Office
- * FL-00: Corridor Meeting Pod
- * FL-00: EWRG
- * FL-00: Data Preparation Area
- * FL-01: PC Office
- * FL-01: Meeting Room 2
- * FL-01: Meeting Room 3
- * FL-01: Meeting Room (1-02)
- * FL-01: System Support Area
- * FL-01: Review Room 1
- * FL-01: Meeting Room 1
- * FL-01: Open Area (Next to WEB)



MAINTENANCE AGREEMENT OPTIONS

The Maintenance Contract details for project values over £ 50,000 are as follows:

Ref: **** PROJECT: **** Equipment Value: £ ****

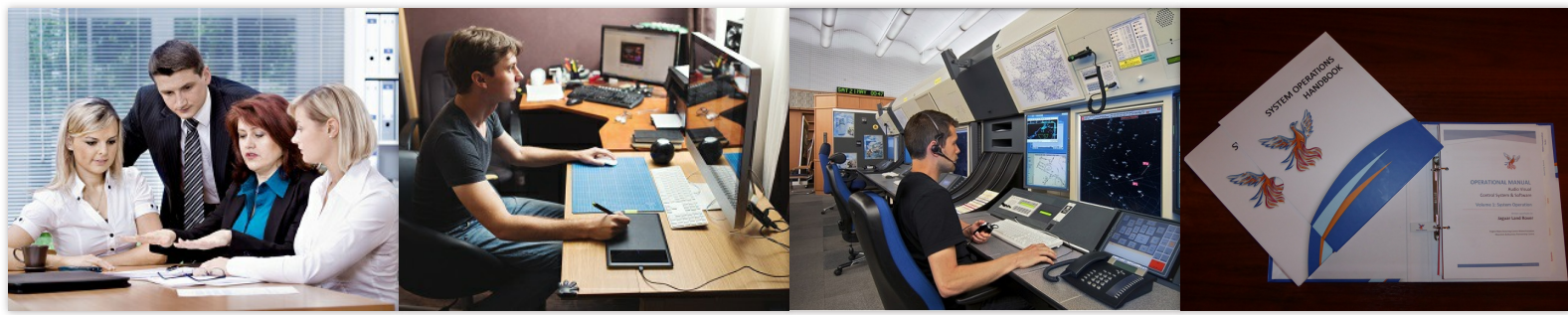
SERVICES	Basic	Gold	Platinum
Warranty Support based on % of equipment cost	No Cost	5%	10%
Telephone Support : Dedicated Technical Report Line	24 / 7	24 / 7	24 / 7
Warranty Support for Installation Based Faults ¹	✓	✓	✓
Standard Manufacturer Warranties ²	✓	✓	✓
Fixed Rates for Annual Renewals ³	N/A	3 yrs	5 yrs
Warranty Call-Outs for legitimate equipment exchanges under manufacturer's warranty ⁴	At Rate	Free	Free
Non Culpable Callouts ⁵	At Rate	2	4
Maintenance Visits for Checks	At Rate	1	4
Manufacturer software updates where applicable and available	✓	✓	✓
Additional Training refresher Course ⁶	At Rate	1	2
Discount on additional upgrade hardware purchased for project ⁷	N/A	N/A	10%
Discount on additional upgrade installation regarding project ⁷	N/A	N/A	25%
Changes to any pre-handover programming and control solutions	X	X	X
Any reconnection, re-termination or re-collaboration of equipment and systems as a result of user mishandling or attempts to self-change	X	X	X
Note: Warranty support will be deemed as void in the event of any interaction or handling by any external company or provider without the consent in writing from Phoenix AV.			
COST BASED ON EQUIPMENT VALUE	No Cost	£ ***	£ ****

Notes:

1. Covers any installation works and infrastructure provided by Phoenix AV. Excludes hardware.
 2. Phoenix AV will initiate the warranty procedure for the client who will then continue the liaison with the manufacturer.
 3. Warranty cover does not appreciate for first 3 years although equipment may depreciate. Subsequent year 4 – 5 warranty support requirements by separate agreement.
 4. De-install / Re-install support for damages / faults acceptable under the manufacturers' warranty. (Note: Excludes any shipping costs not met by manufacturer). Rate charged at £ 450 per day
 5. Where fault is proven to be user mishandling / operation rather than equipment or installation fault. No call-out charge applied.
 6. In addition to end of project handover training. Designed for new or existing staff
 7. For optional upgrades or additional requested to the existing installed project, hardware systems will attract a 10% discount from SRP and installation services a 25% discount. Only applicable for existing, paid up maintenance service periods.
- * Phoenix AV support is charged at a standard daily rate of £ 600 plus equipment hire if required.
- ** All site visits will be recorded and signed of within a Maintenance Schedule to ensure support levels are properly logged and maintained.
- *** If required, the Maintenance Contract must be taken up within 3 months of project completion and will revert to completion date.
- **** If Maintenance Contract is not renewed at the end of each period, it will revert to a 'Pay per Call-Out' basis and cannot be re-started.

Audio Visual Projects

Ensuring you have the best solution to meet your needs



1

CONSULTATION

This option is perfect for fact finding and re-assessing your actual needs and requirements and matching them to system capabilities.

2

AV SYSTEM DESIGN

Recommending the best solutions to fit with your criteria, be that technological advancements or best cost basis.

3

TURNKEY PROJECTS

Providing you with the complete installation service using known product brands with follow-up on site training and ongoing support.

4

PROJECT MANAGEMENT

Providing you with a single point of contact between you and other sub-contractors, thus taking away the additional workload and stresses this can bring.

5

BESPOKE OPERATIONAL HANDBOOK

Following a full review of your system, with relevant members of your team to ascertain the format and content.

Phoenix AV Solutions Ltd

consultation av system design turnkey projects project management



Consultation

If you have a requirement to upgrade your AV or introduce new and additional systems but are not sure of the best way forward, we can assist in guiding you down the right path and to find the right solutions. By assessing your methods of operations or company requirements, we can advise on which systems and technology are best suited and the best methodology to adopt.

AV System Design

We are able to draw on our wealth of experience as well as our ongoing relationships with manufacturers to know what is currently available, what works and what the alternatives are. As we will have no supply input, we will be in a position to recommend the best solutions to fit with your criteria, be that technological advancements or most cost effective, prepared in a document to use as best fits your purchase routes.

Turnkey Projects

For completely managed projects, we are acknowledged experts in providing a full Turn Key Projects service, with a specialism in innovative and integrated solutions. Our services encompass all technology systems from projection, standard and interactive boards and LED screens, through to video conferencing, digital signage, video walls and command and control solutions and includes supply, install, training and support.

Project Management

New technologies and AV design means that aesthetics are becoming increasingly important. Understanding when to pre-fix, install or commission solutions alongside other trades and suppliers in a new build can exasperate and be potentially costly if wrong. With our experience of large installations, we can Project Manage the AV requirements to ensure a smooth and professional outcome for all concerned.

Customised Operations Manual

Having complex system designed to improve the working environment is wasted if your employees cannot operate them. We can provide a range of Operational Manuals both for our own or your existing projects, designed to act as a quick reference to existing users or, an easy to pick-up and understand instruction guide to new operations for employees.

Having an idea of what you want to do is one thing...

...Knowing what is needed to achieve it is another

With over 20 years of experience, we have been involved with AV interactive technologies from the outset and have a number of national awards for our projects to verify our professional standing and capabilities be that from small class, training and meeting rooms up to complex command and control solutions.

Audio Visual systems have come on in leaps and bounds from the simple projector; there are now a baffling array of technologies, brands and systems designed to cater for any conceivable requirement or situation.

To assist our clients, we offer a number of defined solutions which can be taken as stand-alone services or as an integrated package to fit your specific requirements.

“What’s the point in the latest technology if you don’t know how to use it”

Consultancy Reports available

- » ARCHITECTURAL & DESIGN PLANNING GUIDES
- » RFQ & TENDER DOCUMENTATION
- » OPERATIONS MANUALS & HANDBOOKS
- » TECHNOLOGY UPDATES
- » COMPARATIVE ANALYSIS
- » SYSTEM DESIGNS
- » BRIEFING PRESENTATIONS & DOCUMENTATION

Further information can be found on our website along with details on our *Services, Client Case Studies* and *Projects*.

If you would like to discuss your project and / or arrange an initial meeting, give us a call on



01939 200467

www.phoenix-av.co.uk