Welcome to the 3 Monkeys Audiovisual IWB (interactive white board) installation guide. This manual should be used in conjunction with the 4min instructional video for further detail in setting up this system.

At any time during this process you may **call us on (08) 9228 1681 for assistance** if you are unsure of any step or have any questions relating to installation and set up.

**Supplied Cables** (fig 2)

- VGA Cable
- HDMI Cable
- Composite video cable
- Audio (Input 3.5mm stereo jack – wall plate connector)
- Audio (Output 3.5mm stereo jack – dual RCA)
- USB Cable (A type – A type)
- IEC Power x 2

**Wall Plate** – with HDMI, VGA, C/AV, USB input connections (fig 2)

1 x **Power board** required (fig 2)

**Speakers** (fig 3)
- Main Speaker (powered)
- Slave Speaker
- Connecting Speaker Cable
- Speaker brackets
- 90deg RCA adaptors

**IWB Bracket and Spacer Bar** (fig 4,5,6)

**Projector Mounting Screws** (fig 7)
- 25mm M4 x 3 (30mm also supplied)
- Spring washers x 3
- Flat washers x 3

**Hanging Locator** (remove from black brackets supplied with board) (fig 13, 14)
- Locator, spring washer, flat washer and nut x 4

## Step 1 – Mounting the Bracket (fig 8 – 17)
Measure and mark the height from floor to bracket mounting location.
Refer to the table below for mounting heights.

| Bracket Height | Board Height | Projector Height | |
|---|---|---|---|
| 2030mm | 900mm | 2280mm | |
| 1930mm | 800mm | 2180mm | |
| 1830mm | 700mm | 2080mm | |
| 1730mm | 600mm | 1980mm | |
| | | | |

NB Mounting height should reflect student age. eg lower positions for junior primary etc.  Do not mount bracket too low, as this will cause the projector to encroach on headspace.

Drill 6 holes in your wall as per bracket mounting hole locations.
Insert wall plugs / fixings and ensure all 6 fixing points are used.  These can be measured and marked or simply marked whilst holding the bracket in position against the wall with an assistant.

Fix the bracket to the wall securely using your choice of suitable fixings.  Ensure the bracket is perfectly level and that the fixings chosen are suited to both bracket and wall material.

The total weight these points will hold is as follows:
Projector 9 Kg
Board 26 Kg
Bracket and Spacer Bar 13 Kg
A total of 48 Kg

*Please note that it is the installer's responsibility to ensure the fixings chosen are suitable for the above weights and that the fixing points are safe and secure for the load. Depending on the wall construction, additional strengthening and or framing may be required.*

Remove the hanging locator nut and bolt from black metal bracket and fix to slots in wall mounted bracket.  Be sure that the spring washer is included and mounted as shown ie: Spring washer, flat washer and nut all within the square tubing of bracket with the locator on the outside (Hand tighten only).
NB This must be fully tightened on completion of installation.

**Step 2 – Inserting the Cables (fig 18 – 22)**
VGA
HDMI
Composite Video
Audio (3.5mm – wall plate connection)
Audio (3.5mm – Dual RCA)
IEC Power lead

An easy way to do this is to feed just one cable through initially and then use this to guide the remaining cables through using electrician's tape (See photo/video). Repeat this process until all cables mentioned above have been pulled through both bracket holes.
NB Both audio cables require the 3.5mm connector to be at the top.

Next fit the power board to the top of the bracket with some double-sided tape. Keep the power board away from the edge. Temporarily plug the VGA cable connections into the supplied wall input box and place off to one side.


**Step 3 – Mounting the Projector (fig 23 – 26)**
Plug all cables into rear of projector.  (3.5mm – dual RCA should be connected to audio output on the projector)
Feed excess cable back into the bracket.
Using the 3 x 25mm M4 bolts, spring washer and flat washer, locate the mounting holes on the projector and fix to bracket.


**Step 4 – Mounting the Board (fig 27, 28)**
Fit the spacer bar to the bottom of the board using the remaining two hanging locators, by the same process as in Step 2.  Hang the board onto the wall-mounted bracket using the bottom keyhole on rear of board.

NB If installed correctly the power board and power plugs should be concealed. Do not mount on the first or second keyhole or projector alignment will not be possible.


**Step 5 – Aligning the Image (fig 29 – 32)**
Connect your computer via a VGA cable to the temporarily connected input plate. Turn on your computer and projector.  Once the projector warms up you should see an image on the board.  If the projector does not auto search and find your computer then select VGA 1 from the Source Menu using the projector remote control. Also check that your VGA output has been enabled on your computer.
Select Menu and arrow over to "Installation II"
Change "Auto Search" to "Off"
Arrow down and select "Bright" or "Normal" lamp mode

*(If connecting a third party control system eg Crestron Controller*
*Go to the "Advanced" tab, arrow down to "Low power mode" and turn off. This step is not required if operation will be from the projector remote.)*

Menu out and select "Installation I" tab
Arrow down and select "Aspect Ratio 4:3"
Arrow down and digital zoom from 0 to -5 (choose best size for projection area)
Menu out and your image should now match the board and be the correct ratio.

Adjust the board slightly left or right to best line up the image.
Also adjust the projector forward or backward for best image.
The three projector mounting screws will also need adjustment during this process.
Correct adjustment of these screws and forward / back projector positioning will minimise any keystone adjustment required.
Once the image is aligned to your satisfaction, the front projector feet should be turned so they are firmly pushing onto the bracket mounting plate.

*30mm M4 bolts are supplied should the projector need to be lowered further.*
*NB These bolts are for lowering only and should not be fully screwed into the projector as damage may occur.*

Check image alignment and readjust if required.  Tighten the hanging locator nuts within the square tubing of the bracket and insert plastic end caps.

**Step 6 – Mounting the Wall Plate (fig 33 – 40)**
Mark and mount the input wall plate backing box.
Be sure to remove cable access cut out from the correct side eg left hand side for mounting onto right hand side of board so cable entry is hidden.
Feed cables through the cut out and connect to input plate. VGA, HDMI, C/vid, Audio and USB.
Run the USB cable along the bottom spacer bar and plug into USB input on the left hand underside of board.
Attach input plate to back box and conceal excess cable.

**Step 7 – Mounting the Speakers (fig 42 – 45)**
Mark the speaker mounting location using the speaker brackets. Drill your wall and fix the brackets to the wall using secure fixings.

Connect the following to the rear of the powered speaker:
- Right angle RCA adaptors
- Dual RCA lead (from projector)
- Connecting speaker cable
- Power lead

Mount the speaker using the screw in end caps provided. Run the connecting speaker cable over to the 2nd speaker. Connect and mount.
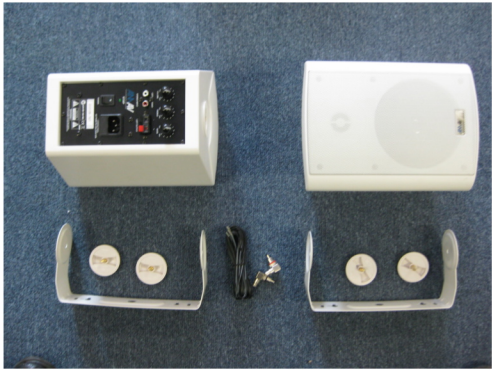
CONGRATULATIONS – Your installation is complete. You can now simply connect your sources to the input plate and select the relevant source from the projector.
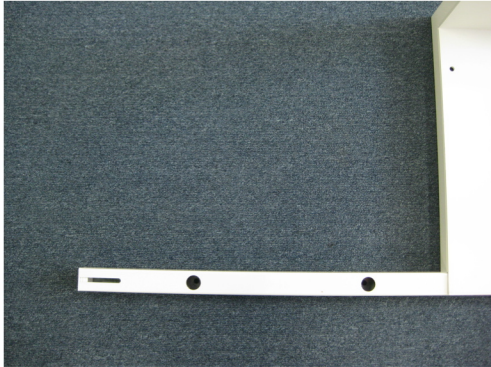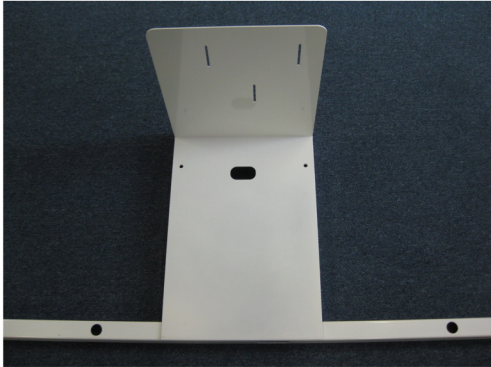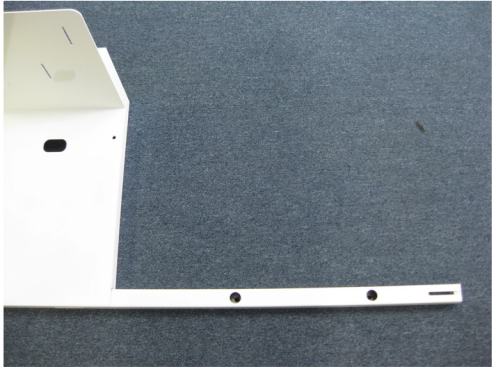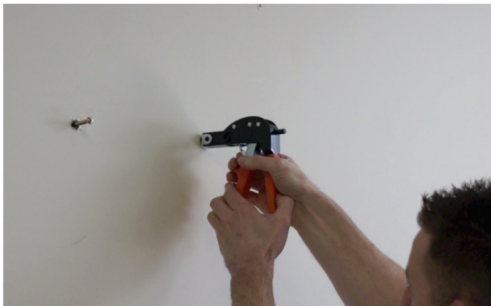
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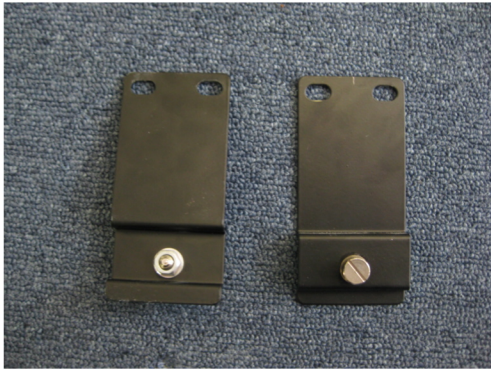
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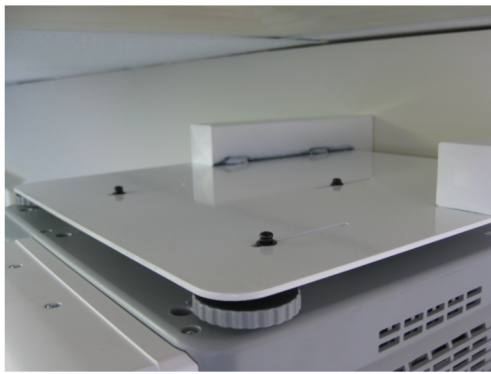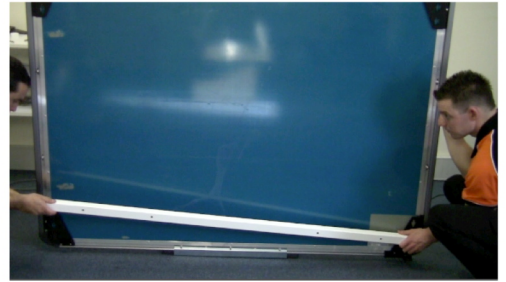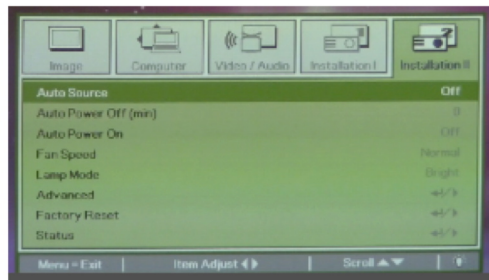
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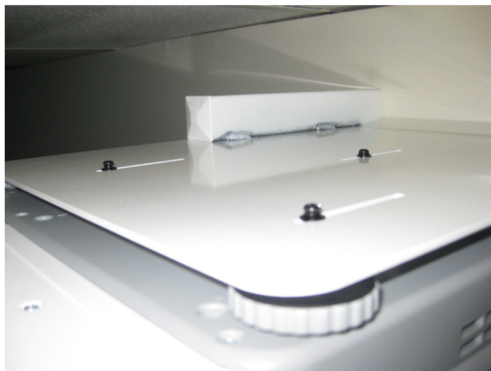

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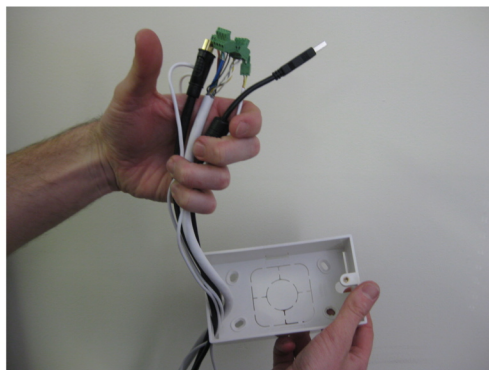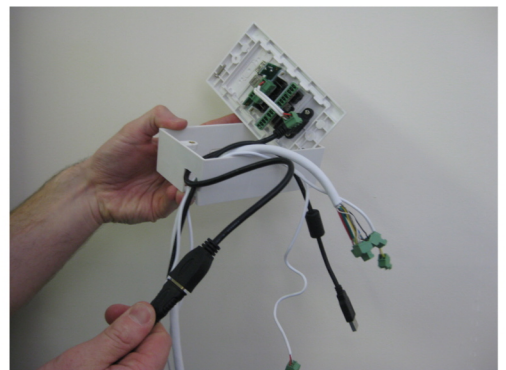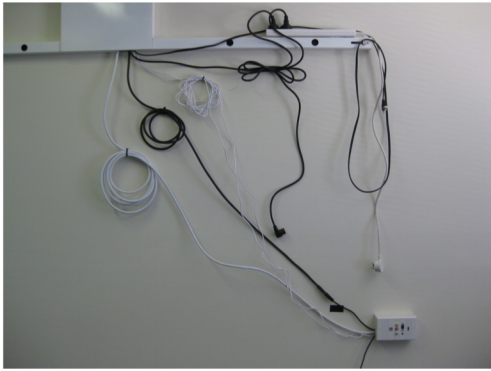

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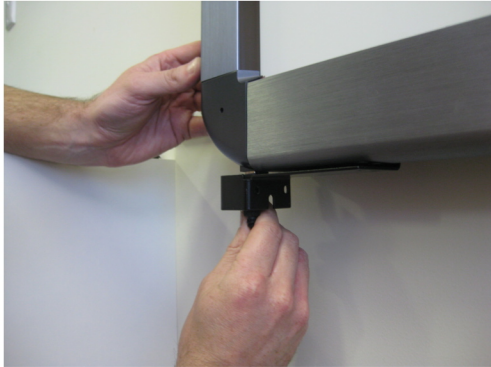
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