

# A-VIEW Hardware Requirements Guide

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## A-VIEW Hardware Requirements Guide

### 1. Hardware Requirements for group/class usage:

No	Item	Configuration		Quantity	Remarks
1	Desktop Computer/Laptop	<i>Student</i> 4 GB RAM, Intel Core i3; OS - Windows 7 or above / Mac 10.6.X or above, 512MB Graphics Card	<i>Teacher</i> 8 GB RAM, Intel Core i5; OS - Windows 7 or above / Mac 10.6.X or above, 512MB Graphics Card	1	<i>Optional:</i> To support multiple displays, additional graphics cards are required. Some graphics cards have dual display outputs, which can support 2 displays in a single card.
2	Extra Displays (TVs/Projectors)	TVs/Projectors that support 1024X768 resolution (42" LCD/LED TVs / Epson EB-U05 / Equivalent are recommended)		As per the availability and capability of Graphics Card	Ensure that you have converters (if needed) and cables that are long enough to connect displays to the computer and the projectors are connected to UPS
3	Camera	Good quality camera with connectivity to computer with live video streaming (HD Handy cam / PTZ / Conference Cameras are recommended)		1	It would be better to have a tripod if using Handy Camera. Capture cards are required when using Handy cams.
4	Composite to USB converter/ Video Capture Card	Capture cards like iBall CTV54, AverMedia DVD EzMaker7 are composite to USB converters. Video Capture cards like AverMedia Dark Crystal HD Capture Pro (C027) are recommended.		1	This is needed only if your camera does not support USB live streaming. Ensure that the cable is long enough to connect your camera to the computer
5	Microphone	Table top/Wireless/Collar /Head worn Microphones (Shure SLX / Sennheiser XSW Wireless Microphone systems are recommended)		As per the need	According to the convenience of the users, you can choose any of these
6	Speakers	Yamaha MSP3, JBL EON515XT, Ahuja SMX902 (powered) loudspeakers are recommended		As per the need	According to the number of audience at your node/side. Should use Amplifiers while using powered speakers.

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7	Amplifiers	Stuudiomaster DJA100 / Samson Servo 200 / Equivalent are recommended	1	This is required when using powered speakers.
8	Audio Mixer	Audio Mixer with 4 or 8 channels will serve the purpose. ("Yamaha MG16XU" / "Allen & Heath ZED-10" are recommended)	1	If external microphones and speakers are being used. Ensure that you have the needed converters and cables (Belden cable, Neutrik Connectors are recommended).
9	"Digital Writing Pad/Notepad" or "Any surface interactive devices"	"iBall Take Note Premium A4", "AVECO uBoard", "Star Board", etc. are recommended	1	<i>Optional:</i> For drawing/writing on A-VIEW's whiteboard (instead of using mouse)

## 2. Hardware Requirements for personal usage:

No	Item	Configuration	Quantity	Remarks				
1	Desktop Computer/Laptop	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><i>Student node</i></td> <td style="width: 50%;"><i>Teacher node</i></td> </tr> <tr> <td>4 GB RAM, Intel Core i3; OS – Windows 7 or above / Mac 10.6.X or above</td> <td>4 GB RAM, Intel Core i5; OS – Windows 7 or above / Mac 10.6.X or above</td> </tr> </table>	<i>Student node</i>	<i>Teacher node</i>	4 GB RAM, Intel Core i3; OS – Windows 7 or above / Mac 10.6.X or above	4 GB RAM, Intel Core i5; OS – Windows 7 or above / Mac 10.6.X or above	1	
<i>Student node</i>	<i>Teacher node</i>							
4 GB RAM, Intel Core i3; OS – Windows 7 or above / Mac 10.6.X or above	4 GB RAM, Intel Core i5; OS – Windows 7 or above / Mac 10.6.X or above							
2	Camera	Good quality web /conference camera (Logitech Webcam Pro 9000, Logitech BCC950 and iBall Face2Face Web Camera are recommended)	1	Conference cam like BCC950 will have in-built cam, microphone and speaker, all in one.				
3	Headphone with microphone	Any headsets with good microphones are recommended	1					

### 3. Hardware Requirement for Webinar Streaming:

No	Item	Configuration		Quantity	Remarks
1	Desktop Computer/Laptop	<i>Student node</i> 3 GB RAM, Intel Core i3; OS – Windows 7 or above / Mac 10.6.X or above	<i>Teacher node</i> 8 GB RAM, Intel Core i7 Quad core, OS – Windows 7 or above	1	

### 4. Network requirements:

**Firewall settings:** Port 80 and RTMP protocol should be unblocked from user's computer.

#### 4.1. Recommended bandwidth requirement:

**For teacher:** Download speed – 2 Mbps, Upload speed – 2 Mbps

**For student:** Download speed – 1 Mbps, Upload speed – 1 Mbps

**For Webinar Streaming:** Download speed – 1 Mbps, Upload speed – 3 Mbps

#### 4.2. Minimum bandwidth requirement:

**For teacher/student:** Download speed – 512 Kbps, Upload speed – 512 Kbps

**For Webinar Streaming:** Download speed – 512 Mbps, Upload speed – 2 Mbps