A-VIEW Hardware Requirements Guide

Date: January 2013

Table of Contents

1. Hardware Requirements for group/class usage:

No	Item	Configuration		Quantity	Remarks
1	Desktop Computer/Laptop	*Student*	*Teacher*	1	*Optional:* 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.
		4 GB RAM, Intel Core i3; OS - Windows XP or above / Mac 10.6.X or above, 512MB Graphics Card	4 GB RAM, Intel Core i5; OS - Windows XP or above / Mac 10.6.X or above, 512MB Graphics Card		
2	Extra Displays (TVs/ Projectors)	TVs/Projectors that support 1024X768 resolution (42" LCD/LED TVs / Dell LCD Projector Model 1209 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 camera is recommended)		1	It would be better to have a tripod if using Handy Camera

No	Item	Configuration	Quantity	Remarks
4	Composite to USB converter/ Video Capture Card	ezCap and GrabBee converts Composite and S-Video output to USB. Video Capture cards are alternatives.	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 (iBall M27, Shure SLX Wireless Microphone system are recommended)	As per the need	According to the convenience of the users, you can choose any of these
6	Speakers	Yamaha, JBL, EAW and Mackie loudspeakers / "iBall Rocky", "Plantronics 326" headsets are recommended	As per the need	According to the number of audience at your node/side
7	Audio Mixer	Audio Mixer with 4 or 8 channels will serve the purpose. ("Yamaha MG-102C" / "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).
8	"Digital Writing Pad/Notepad" or "Any surface interactive devices"	"iBall Take Note Premium A4", "AVECO uBoard", "Star Board", etc. are recommended	1	_Optional:_ For drawing/writing on A-VIEW's whiteboard (instead of using mouse)

A-VIEW *The Versatile E-Learning Tool For Distance Education*
Amrita Virtual Interactive E-Learning Work

2. Hardware Requirements for personal usage:

No	Item	Configuration		Quantity	Remarks
1	Desktop Computer/Laptop	*Student node*	*Teacher node*	1	
		3 GB RAM, Intel Core 2 Duo; OS – Windows XP or above / Mac 10.6.X or above	4 GB RAM, Intel Core i3; OS – Windows XP or above / Mac 10.6.X or above		
2	Camera	Good quality web camera ("Logitech Webcam Pro 9000" and "iBall Face2Face Web Camera" are recommended)		1	
3	Headphone with microphone	"iBall Rocky" and "Plantronics 326" headsets are recommended		1	

3. Network requirements:

Firewall settings: Port 80 and RTMP protocol should be unblocked from users' computer.

3.1. Recommended bandwidth requirement:

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

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

3.2. Minimum bandwidth requirement:

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