

ROBOTS FOR YOUR SCHOOL'S STEM CENTRE



Specialists in AV Systems for Schools

SPECIALISTS IN AUDIO VISUAL SYSTEMS FOR SCHOOLS

UBTECH



UKIT Entry - Junior School

FIRST STEP IN AI EDUCATION

Ukit is programmable building block kit which allows students to easily access the coding world with its APP dynamic instruction and hundreds of parts which can be combined into many different models.

KITS INCLUDES:

- 309 components and parts
- 20+ official models
- 4 servos

FEATURES:

KIDS-FRIENDLY DESIGN

Easy to build with animated 3D guidance and snap-fit design

ENLIGHTENMENT ON PROGRAMMING

Learning coding with dual programming modes: DRP and Blockly coding

SCIENTIFIC AND SYSTEMATIC CURRICULUM

Providing supporting curriculum which is based on AI education surveys and matched to different ages

INNOVATIVE TEACHING METHOD

Inspiring creativity and problem-solving capabilities via task-based teaching method

SOURCE FOR STEAM EDUCATION

Cultivating basic sense of engineering and science

AGE: Junior School, Year 1-3 (Entry level)

HOURS: 36+ Course Hours

OPERATING SYSTEM: IOS or Android

Starting at \$590^{ex}



UKIT Advanced (Extension pack) – Junior School

FIRST STEP IN AI EDUCATION

Ukit is programmable building block kit which allows students to easily access the coding world with its APP dynamic instruction and hundreds of parts which can be combined into many different models.

AGE: Junior – Middle School, Year 4-6

HOURS: 36+ Course Hours

OPERATING SYSTEM: IOS & Android

Starting at \$770^{ex}

KITS INCLUDES:

- 20+ official models
- 4 servos
- bluetooth speaker
- 2 sensors
- 479 components and parts
- LED lamp

FEATURES:

KIDS-FRIENDLY DESIGN

Easy to build with animated 3D guidance and snap-fit design

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UBTECH - JIMU ASTROBOT

Jimu Astrobot – Junior/Middle School

Blast off into a robotic galaxy to build one of three robots in the AstroBot Kit. This interactive, building block system takes creativity and learning out into the stratosphere! The AstroBot Kit comes with everything needed to create AstroBot, Rover, Astron or even your own creation. Program and code these robots to explore, move, and more with five smooth robotic servos, two LED eyes, a Bluetooth speaker, and an infrared sensor. Always inspiring creativity, the JIMU Robot system motivates kids to explore robotics and STEM learning. Smart Robots. Smarter Kids.

AGE: Junior - Middle School, Year 5-9

HOURS: 100+ Course Hours

OPERATING SYSTEM: IOS & Android

Starting at \$245^{ex}

KITS INCLUDES:

- 387 Snap-together Parts
- 1 Infrared Sensor
- 1 Bluetooth Speaker
- 2 LED Lights
- 5 Smooth-motion Robotic Servo Motors
- Power Adaptor and Quick-start Guide
- An iOS or Android device is required & not included

FEATURES:

BLAST INTO SPACE WITH FUN, RELATABLE CHARACTERS LIKE: ASTROBOT, ASTRON, OR ROVER!

Created to transport users into a space adventure and integrated with 24 mini games, the AstroBot kit helps to make STEAM learning fun and exciting.

3D APP BUILDING GUIDANCE DELIVERS HANDS ON FUN!

The visual aspect of building any of the three AstroBot characters through the free JIMU App offers a fresh and immersive experience for both first time and experienced builders. The step by step instructions are easy to follow that makes the building process fun.

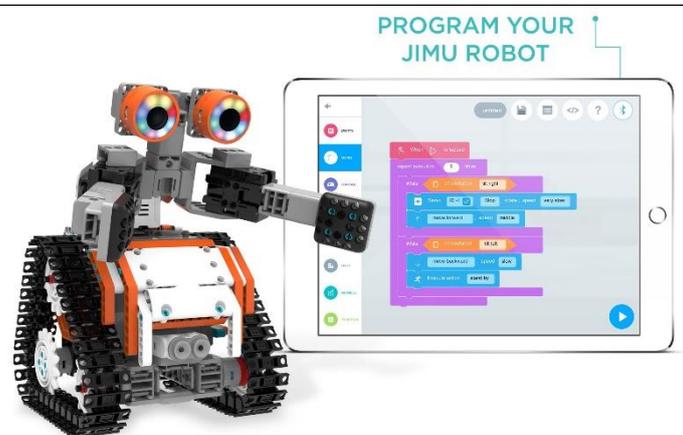
EXCLUSIVE TO JIMU ROBOT KITS: THE POSE-RECORD-PLAY FEATURE

The PRP memory programming mode allows users to design one action, record it through the app, and play it through the app and on the robot. A great tool for beginner programmers!

BLOCKLY CODING MADE EASY!

The blocked-based drag and drop programming editor lets users of all levels create custom programmed sequences. Program the robot to dance, play, walk, and more all using Blockly Coding.

INSPIRE AND BE INSPIRED BY CONNECTING TO THE WORLD THROUGH THE ONLINE APP COMMUNITY!



UBTECH EDUCATION

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UKIT Explore - Middle School

BRINGING AI TO LIFE

The easy-to-build and programmable robot uKit Explore is designed to nurture maker spirit. Learners can experience robotic automation through creating and programming the robots.

KITS INCLUDES:

- 600+ components & parts
- 34+ official models
- 16 servos
- 4 sensors
- bluetooth speaker
- LED lamp

FEATURES:

OPEN-SOURCE ROBOTICS FOR RICH LEARNING

The uKit Explore has a main control box equipped with Arduino open-source platform which offers an incredible amount of electronics and programming learning resources from contributions of users worldwide.

EXPERIENCING AUTONOMOUS DRIVING

The uKit Explore can realize autonomous line-tracking and driving through programming.

The performance can be further optimized with applying of more math and physics knowledge.

MULTIPLE CODING LANGUAGES FOR DIFFERENT LEVELS OF STUDENTS

Supporting Blockly coding as well as several text programming languages including C/C++, for both beginners and experienced coding learners.

TAILOR-MADE CURRICULUM

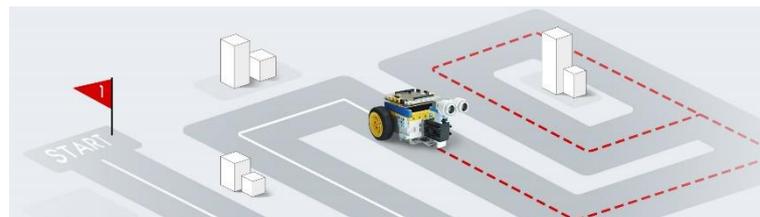
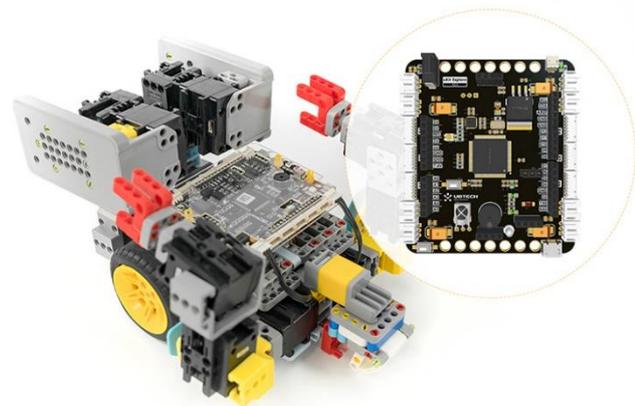
Tailored curriculum offerings are available to enable educators to easily integrate the program into the classroom. These offerings were developed in conjunction with experienced educators in this field.

AGE: Middle School, Year 7-11

HOURS: 60+ Course Hours

OPERATING SYSTEM: IOS & Android

Starting at \$799^{ex}





UBTECH - ALPHA MINI

Alpha Mini - Middle School

EXPERIENCING AND EXPLORING AI ROBOTIC APPLICATIONS

The humanoid robot AlphaMini is the ideal platform for teaching AI robotic knowledge and applications at various levels. He can serve as both a versatile teaching assistant and an essential carrier for AI robotic curriculum delivery.

AGE: Middle School, Year 9-11

HOURS: 30+ Course Hours

OPERATING SYSTEM: IOS & Android

Starting at \$2545^{ex}

KITS INCLUDES:

- HD camera
- Dual IPS LCD
- 14 servos
- 3 sensors
- Gyroscope
- 4 mic array
- Stereo sound
- Communication kit

FEATURES:

TEACHING ASSISTANT

AlphaMini can deploy customized teaching activities on either a one-to-one basis or in small groups. He can help educators to teach core subjects including reading, writing, math, English...as well as a wide range of fields linked to robotics such as mechanics, motion control and computer science.

INCREASING STUDENT ENGAGEMENT

AlphaMini has been designed to make its interaction with human beings as natural and intuitive as possible. He can easily build emotional links with teachers and students with his eye-catching appearance, vivid facial expressions and highly humanlike behaviors such as sneezing.

AI ROBOTIC CURRICULUM INCLUDED

Developed in conjunction with educators in this field, the curriculum of AlphaMini has been tested and optimized to impart AI robotic learning. Students can also foster teamwork, project management, problem solving and communication skills during the process.

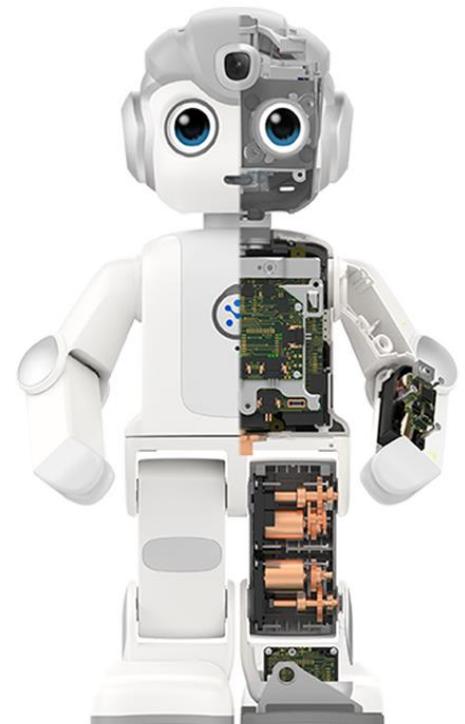
STUDENTS CREATING THEIR OWN INTELLIGENT WORLD

AlphaMini is a fully programmable robot. Based on the "Learning + making" education approach, the AlphaMini platform allows students to learn and practice AI robotic technologies and skills, which leads to finally innovate.

UBTECH SELF-DEVELOPED OPEN ROSA PLATFORM

AlphaMini is embedded with ROSA, an open platform with Android-based SDK and documents which can be combined with external educational applications and services. Based on the highly extensible platform educators can customize their teaching activities while students can acquire more learning resources.

UBTECH EDUCATION





UBTECH - YANSHEE

Yanshee - High School

PREPARING FOR CAREER DEVELOPMENT

Yanshee is an ideal educational robot designed to provide the ultimate open-source platform for educators and students to learn, experiment, research and engage with.

KITS INCLUDES:

- Toolkit
- 17 Servos
- Gyroscope

FEATURES:

CONVERGENCE OF AI AND ROBOT

Standing at nearly 15 inches tall, Yanshee combines an advanced AI interface, a programmable Raspberry Pi card, and a host of sensors and functionalities. All these enable Yanshee to perform tasks on command, test environmental conditions, speak, listen, thoughtfully answer questions, and relay data.

RIGOROUS CURRICULUM, ACTIVE-LEARNING ENVIRONMENT

Yanshee's accompanying curriculum promotes students' abilities at all levels in preparation for various careers. Educators will be provided with appropriate guidance and support to maximize an investment in this high-tech classroom assistant. Yanshee will add personality, emotion, and real-world connection to robotics and coding, creating a high interest environment for students.

A CARRIER FOR AI ROBOTIC RESEARCH

By using Yanshee platform, instructors and researchers can stay current with major technical and commercial breakthroughs in programming and applied research. Yanshee can be applied in university AI labs for research and re-development purposes.

DIVERSE CODING LANGUAGES

The open source nature of the platform means students can leverage multiple coding languages – including C, C++, Python, Java and Blockly & Scratch– to collaborate and engage with Yanshee.

USER-FRIENDLY SOFTWARE

Yanshee APP owns game-like interface and can be used for motion control, Blockly programming, PRP and related learning courses.

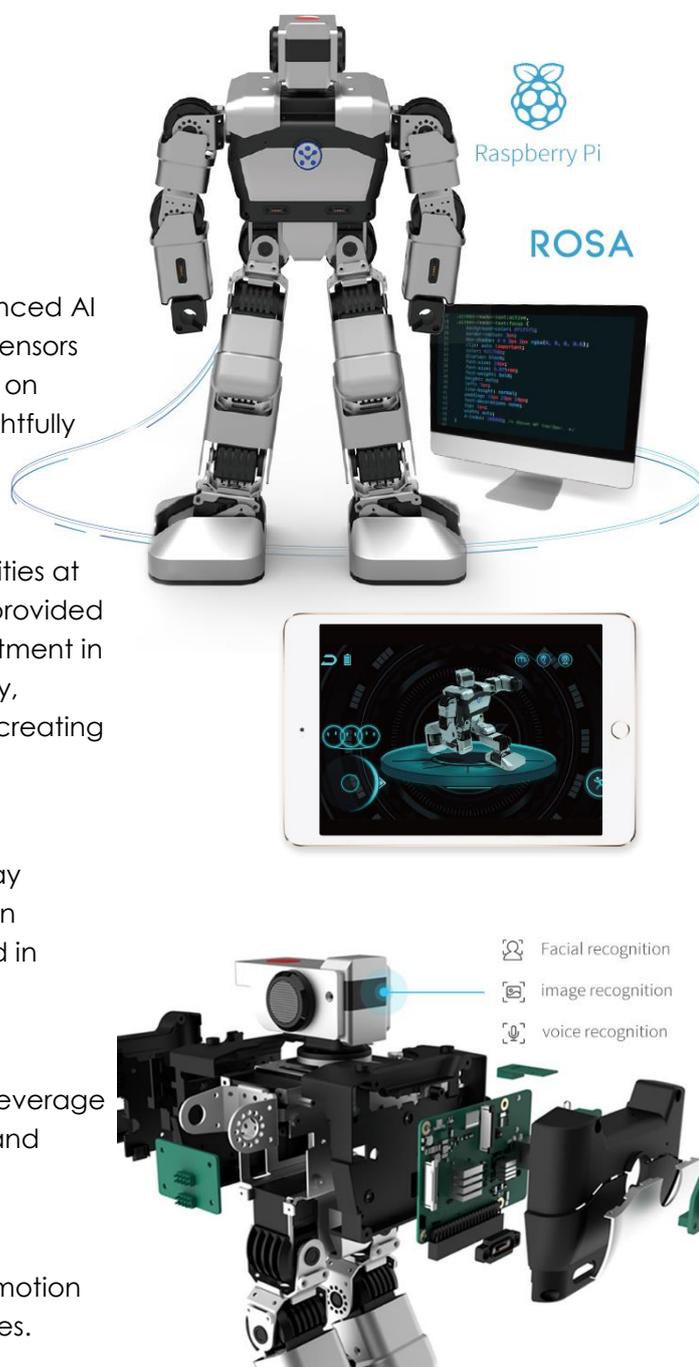
AGE: High School, Year 9-12 + University

HOURS: 60+ Course Hours

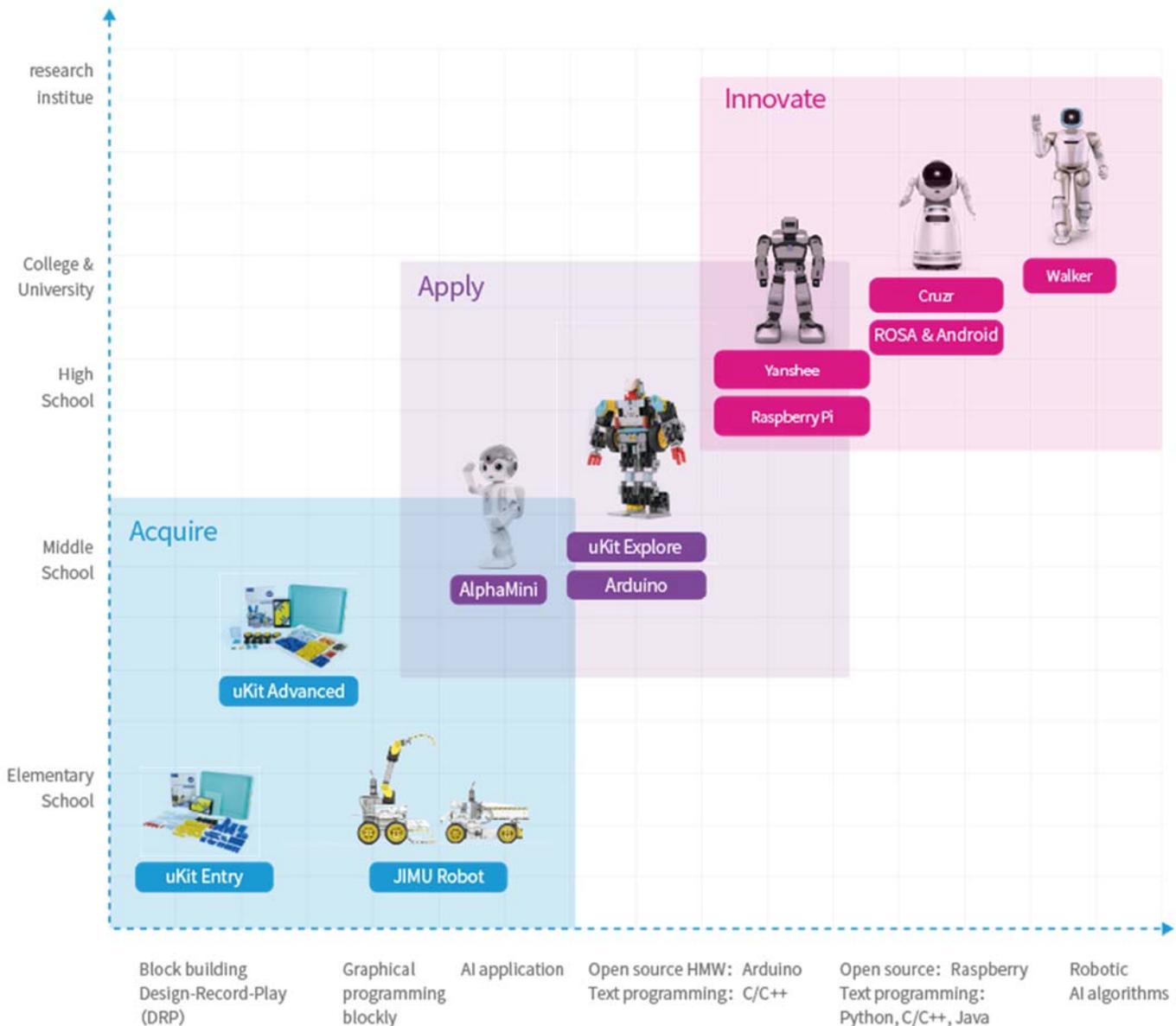
OPERATING SYSTEM: IOS & Android

Starting at \$6,269^{ex}

UBTECH EDUCATION



Curriculum System and Teaching Tools



Why Robots in STEM?

3 Monkeys AV are partnered with UBTECH, a global company that offers a wide range of Robots used to educate schools across the world.

UBTECH provides a scaffolding approach based on the **A² (Acquire, Apply and Innovate)** Learning Pedagogy to offer a complete curriculum from primary schools to universities.

As computer science and coding languages are a large part of the future and future careers it is important to teach the essential skills from an early age. We offer robotic packages for all ages, from primary schools at entry level through to packages suitable for those building career development in senior high school.

Through Robotics, students develop skills including; Creative/Critical Thinking, Building an AI Mindset (Acquire, Apply and Innovate), Developing Science and Innovation Literacy, Mastering Coding Languages and more.

Students not only gain a variety of skills through robotics but it is engaging and enjoyable.



AUDIOVISUAL IN STEM!

WHAT IS STEM?

Science, Technology, Engineering and Mathematics.

Through STEM students learn and develop skills including problem solving, creativity, team work, critical analysis, independent thinking and more.

STEM is a large part in the world we live in today as current jobs are declining due to mechanization and automation and being replaced with new jobs that integrate STEM to create innovative solutions to increase productivity through automation such as robots, automotive engineering, technology and more.

Students become more engaged and motivated when using innovative audio and visual technology when learning in the classroom.

WHAT WE OFFER

3 Monkeys AV offer all things audio and visual for your schools STEM Centre, including:

- Robots
- Interactive Whiteboards & Panels
- Document Cameras
- Installed Camera Solutions
- TV Displays
- Projection Systems
- Tripods & Mounts



WHY STEM MATTERS

STEM qualifications and skills are **essential** to Australia's productivity, innovation and success.

IN THE NEXT 15 YEARS:

- ✓ some routine manual jobs will be lost to automation
- ✓ current jobs will be transformed
- ✓ new jobs will be created.

TO BE COMPETITIVE WHEN YOU ENTER THE WORKFORCE YOU NEED:

STEM qualifications: Gaining academic and VET qualifications increases job opportunities

STEM capabilities: Curiosity, independent thinking, logical reasoning, collaboration, strong communication, creativity, problem solving, entrepreneurship and digital technology skills are highly desired and transferable.

HOW THE JOB MARKET IS CHANGING:

50% of current jobs with skill shortages are in STEM fields.

75% of all new jobs will require skills in STEM.

90% of jobs will need digital skills in the next 2 to 5 years.

IN THE NEXT 5 YEARS it is predicted that demand will rise for:

- professional, scientific and technical services: **14%**
- health care: **20%**

EMPLOYERS EXPECT THEIR NEED FOR STEM PROFESSIONALS TO INCREASE IN THE NEXT FIVE TO 10 YEARS.

- University graduates: **49%**
- VET graduates: **53%**

WHY YOU NEED TO ACT NOW:

One third of 15 year olds do not have the STEM skills that employers want.

58% of current students under 25 are studying for jobs that will be radically changed by automation.

For more information visit education.wa.edu.au/STEM or talk with your course counsellor.

Sources: The New Work Order: Ensuring young Australians have skills and experience for the jobs of the future, not the past (2015). Foundation for Young Australians. Australia's STEM Workforce: Science, Technology, Engineering and Mathematics (STEM) Other of the Chief Scientist, March 2016. The New Basics: Big data reveals the skills young people need for the New Work Order (2016). Foundation for Young Australians. STEM Education and the Workforce (2012). Office of the Chief Scientist. STEM Skills in the Workforce: What do employers want? (2015). Office of the Chief Scientist.



WHAT WE OFFER FOR STEM!



INTERACTIVE PANELS AND WHITEBOARDS

STARTING FROM \$3,995ex



ROBOTS

STARTING FROM \$245ex



DOCUMENT CAMERAS

STARTING FROM \$399ex



DRONES

STARTING FROM \$599ex

DIGITAL MEDIA/FILM MAKING EQUIPMENT

STARTING FROM \$269ex

TRIPODS, MOUNTS AND GIMBALS

STARTING FROM \$109ex



1. Reliable, quality audiovisual equipment that works

- We use top AV brands with proven performance and reliability.
- Many of our AV items are specifically designed for schools, such as our interactive LED and Whiteboard solutions and Triple P.A System.
- Every AV system is assembled and tested in our workshop by qualified technicians before installing in your school in order to minimize any potential AV problems occurring later.
- As school AV specialists, all of our equipment has been thoroughly road tested and proven by our existing client base.
- 3 Monkeys AV is at the forefront of school audiovisual technology, bringing you the latest time saving and breakthrough educational systems.



2. Expert advice on the right equipment and set up

- Our AV specialist team have over 80 years collective experience.
- With over 10,000 AV installations and hire jobs, our consultants and technicians know the best solutions for your school.
- To determine the best products and systems for your school, we conduct a unique 3 Stage "School AV System Analysis and Plan". This involves:
 1. Site meeting to identify your needs
 2. Preparation of a plan (proposal, budget, implementation timeline)
 3. Presentation to explain your various options.



3. Professional installation with a neat and tidy finish

- Our installation technicians are fully employed (not contractors), ensuring quality control on our workmanship and installation.
- With ex teachers on staff, our design and installation takes into account many "teaching requirements" that others are unaware of.
- Our project manager and technicians are conscious of minimizing disruptions during installation periods.
- We believe in leaving your environment as we found it, so our installers carry vacuums, drop sheets, dust pans and brushes.
- Your AV install will have a neat, tidy & clean finish, with all cables hidden or contained within conduits or ducts.





WHY CHOOSE 3 MONKEYS FOR YOUR SCHOOL AV

4. Thorough training, personalised service and timely support

- All our school AV installs include comprehensive training to ensure your staff get the full benefit of the equipment and system.
- As specialists in school AV, we have both AV trainers and ex teachers to educate your teachers your teachers in using the audiovisual equipment effectively.
- As schools are our focus, we are committed to providing regular ongoing phone and face to face support.
- Whilst many others sell AV product and move on, 3 Monkeys AV will provide timely support, customer service and troubleshooting for the life of your AV equipment & systems.



5. Reputable, professional school AV specialists

- 3 Monkeys AV is a team of specialists who have worked in all areas of audiovisual in Perth over the last 25 years.
- All our staff are well presented, wear company uniform, mind their language and remember their working environment is your school.
- Our company is fully insured and professionally run. We carry licenses with APRA and ACMA.
- Our specialist staff are all police cleared, hold Working With Children Checks and have completed all relevant safety training.
- You will be looked after by a WA owned and operated team that cares about your school and teachers.

