




infinispark



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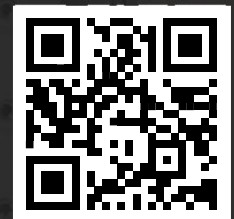


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Testimonials



Gary Wattie, *Electrotechnology Trainer at Wodonga TAFE*, “teaching at Department of Defence
“The time factor, it's massive. I literally don't have to look for anything. The parts are there, they're all in a box, they basically just grab it and do it. Yeah, it's massive time-saving, huge.”



Patrick Jones, *Electrotechnology Trainer at ONTTC*
“The Pracboxes accommodate any experiment that the unit of competency asks us in those units. So, they're a brilliant tool”



Eliya Mackle, *Electrical Apprentice*
“The pracbox was easy to use and portable. Taking it around the tables in the classroom was no issue. It was great using them, I was happy to come to school to do prac.”

Testimonials

Michael Cullen, *Former Head of Department Electrotechnology and Engineering, Holmesglen*

“What we have found that the pracbox has really increased the apprentice engagement, they start working through each prac and actually understand what it means and how it applies to theory and how it applies to a broader electrical area”



Adam Hewitt, *Electrical Trainer, Holmesglen*

“The fact that everything is contained within the pracbox felt good. It gave me confidence to know that I could pickup a pracbox and everything I needed was there to plug it in and to show the students what they needed to do and the students had that confidence to do the same.”



Jo O'Mahoney, *Electrical Trainer, Go TAFE*

“I felt organised; I felt that it was all laid out for me. It [Pracbox] was easy to set up, it was easy to pack away, and it wasn't a chore. It increased my organisation 100%”





Non compliance to making compliance easy

In vocations like Electrotechnology and automotive electrical, it's not easy to assess without the proper equipment.

We start by unpacking a Unit of Competency and identifying what parts require learners to demonstrate their understanding. Based on this information we choose the components and put them all in a compact form factor. This takes care of the compliance from the ground up.

This means less time and money spent on compliance.

Disengaged learners to high learner engagement

Lower learner engagement is perhaps the biggest reason why the learners drop out, and you end up with a high attrition rate.

We understand that, and that's why we only put the components that are relevant to the topics. This empowers the trainers with confidence that whatever exercise or assessment they conduct will be relevant. We design our equipment well so the learners and trainers enjoy using them.

This will not only increase your enrolments but also attract and retain excellent trainers.

Increased trainer productivity and organisation

Do you or your trainers spend hours in preparation for any practical exercise because the required components are all over the place?

We follow the model of one box for all practical assessments for a subject. This helps trainers spend less time preparation and more time training and assessing, which **increases their productivity and your revenue.**



DC Pracbox

DC Pracbox for assessing basic electrical subjects in Electrotechnology and Automotive Electrical

1. Compliant to training package - All the components in the DC pracbox have been chosen based on the Units of competency. You can rest assured that all training or assessment activity will take you closer to compliance.
2. All components in one box - Besides all the components you need, the DC pracbox also has a built-in power supply and multimeter. All you need is power and testing leads. Your productivity will soar.
3. Increased learner engagement - The DC pracbox will increase your learners' curiosity and engagement and as they continue using them, they will become more confident and competent.



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Parameter	Details	Purpose and Benefit
Subjects can you use the DC Pracbox in	UEENEEI03A UEENEEI04A UEECD0044 UEECD0046 AURETR003 (R103) AURETK003 AURETR048 AURETR032 (R132) AURETR012 (R112)	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Power Supply Output	0 to 25V 5A max	A wide range of output voltage and high current output will allow for various practical exercises and assessments
Circuit Measurement Instrument	Multimeter powered internally and panel fuses	No need to look for a multimeter, replace its battery or open the whole thing to replace the fuses. It's all made easy for you.
Power Resistors	50 and 25 Watt resistors with different values	Use these with high currents without worrying about damaging them. Caution - they will get HOT!
Fixed Resistors and Capacitors	Various colour coded resistors and Non-Polarised Electrolytic capacitors	Assess and train your learners with a wide variety of 4 and 5 band colour coded resistors and charging and discharging capacitors without worrying about damage due to incorrect polarity
Variable Resistors	NTC and PTC Thermistor Light Dependent Resistor Varistor Potentiometer	Different types of variable resistors to expose your learner to
Indicators and loads	4 x Incandescent lamps LED lamp	Train your learners on the difference between incandescent and LED lights and their behaviour in series and parallel circuits



Installation Testing Faultboard

Installation Testing Faultboard for assessing apprentices and practicing for Licensed electrician assessments

1. Turn learners into testing experts - Your learners will get up to 100 opportunities to test the installation with changing faults, which will keep them engaged and give them the practice they need
2. Let your trainers help the learners - If the trainers are not building equipment, they will be free to apply their expertise where it's really required - with the learners, training and assessing.
3. Huge cost reduction - We have designed the installation testing faultboard based on intensive research to build what's needed for the learners. You can enjoy a well-designed piece of equipment that's ready to go, without bespoke design costs.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Installation Testing Faultboard in	UEENEEG105A UEENEEG108A UEEEL0039 UEEEL0014 Licensed Electricians Assessment Capstone Testing	The equipment is designed for the Units of competency to make it easier for you to maintain compliance and for practicing for Licensed Electricians Assessment
Faultboard Power	Battery powered	Truly portable and flexible
Charge and Run Time	Power Version: 40 hours run time and 2 hours full charge time Non-powered Version: Always On	40 hours will give you a full week's worth of usage without any interruption or need for power
Product Size	Aluminium profile stand with heavy-duty wheels 1255mm x 800mm x 1672mm	Good size for practising testing at standing height. Nice finish and robust
Fault control access	Via onboard Touchscreen in a secured location	Easy to engage and remove faults. No need for external devices or software



Electromag Pracbox

Electromag Pracbox comes with real industry components for all your assessments for electromagnetism subject

1. Convert theory to practice - With a variety of Electromagnetic components in the pracbox, you can now discuss theory and jump into practical.
2. Demonstrate the relevance and increase learner interest- Almost all the components used here are used in the industry. This makes it so much easier for you to show the relevance of the subject to the real world and engage your learners.
3. Ease of compliance - The components in the Electromag pracboxes are chosen from the range statement of the unit of competency. Now you can leverage the skills assessments to perhaps cut down the size of knowledge assessments.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Electromag Pracbox in	UEENEEG101A UEEEL0021 UEEEL0019	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Power Supply Output	Dual power supplies with 0 to 25V and 2.5A max each	The dual power supply allows you to demonstrate electromechanical components that require control and power circuits
Relays and contactors	Open relay Interface relay DPDT relay Contactor	Assess and train your learners with a variety of electromechanical devices
Magnetic sensing devices	Reed switches inductive sensor hall effect sensor	Teach your learner about magnetic sensing devices by connecting them and testing
Motor/Generator set	2 x Permanent magnet motors connected with timing belt	Show the operations of motors and generators



AC Pracbox

AC Pracbox comes with all the components needed for AC theory training and assessment

1. Engage your learners - When complex concepts of AC theory are demonstrated practically, they become more interesting and easier to understand and engage your learners even more.
2. Bridge between math and reality - What if you had a way to practically prove the results of your mathematical problems in a real circuit? That's what AC pracbox can do for you.
3. Lead you to compliance - The components in the AC pracboxes are chosen based on the unit of competency. Any assessment you conduct using these pracboxes will automatically lead to compliance.



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Parameter	Details	Purpose and Benefit
Subjects can you use the AC Pracbox in	UEENEEG102A UEEEL0020	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Circuit testing	Colour LCD screen meter that shows Voltage, Current, Power, Power Factor, Frequency and Energy	Make it easier for your learners to understand the important properties of a circuit, all in one screen
Resistive loads	3 different value 50 Watts resistors 3 same value 100 Watts resistors 42V lamps	Use these with high power without worrying about damaging them. Caution - they will get HOT!
Real Inductors	3 real inductors from small to large values	Let your learners understand the effects of real inductors on a circuit
Capacitors	Film capacitors Motor start capacitor Power factor correction capacitor Bipolar electrolytic capacitor	Show your learners RLC circuits or power factor correction with a variety of capacitors
Built-in Single phase power supply	0 to 15V stepped power supply	You don't need an external power supply, which will save cost and bench space



Transformer Pracbox

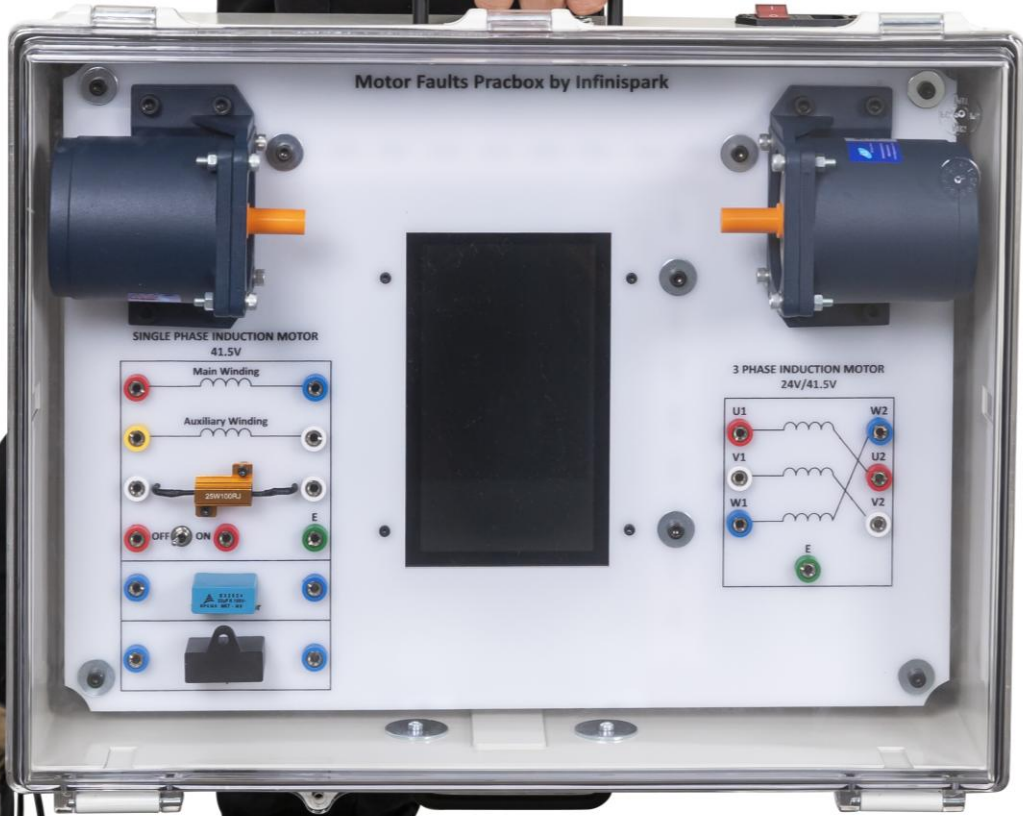
Transformer pracbox is designed for assessing students in the Transformer subjects

1. Four transformers and Seven Ratios – The transformer pracbox provides plenty of opportunities to understand how transformers work.
2. Built-in metering – The transformer Pracbox enables you to do take variety of measurements without needed external meters. This offers massive cost and space saving.
3. Built-in power supply – A fixed AC power supply is onboard, which can be made variable with the variac. This offers further cost saving by not needing external power supply.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Transformer Pracbox in	UEENEEG006A UEEEL0025	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Fixed Transformers	2 x EI core transformer 240/24V 1 x Toroidal 230/2x55 1 x Toroidal 2x115/2x18	Variety of transformer allow for 7 unique ratios and multiple configurations for plenty of training and assessment opportunities
Variable transformer	Variac	The variac allows for learning and assessment of autotransformers as well as turns the fixed power supply into variable
Built-in power supply	Fixed 25V 1A AC power supply	Cost savings on external power supply. The variac onboard can also the fixed voltage into variable
Built-in meters	1 x AC meter that measures V, I, P, PF, f and energy 1 x Digital multimeter	The versatile meters offer massive cost savings by enabling you to take a variety of measurements without the need for external meters. The multimeter never goes flat, and the ammeter fuses are easily replaced, allowing huge time saving.
Loads	5R, 10R and 39R Power resistors	Power resistors allow you to put heating loads on the transformers' secondary winding for voltage regulation calculation



Motor Faults Pracbox

Motor Faults Pracbox covers 5 single and three-phase induction motors and 60 sets of fault-finding exercises

1. Increase convenience, increase practical training – One motor faults pracbox to train and assess 5 types of motors is convenient, and you can take it to any room.
2. Massive cost savings – A fault-finding system built into the pracbox. You are not limited to teaching just about the workings of the motor but also how to find faults and with no extra cost.
3. Turn your learners into testing experts – Your learners will get more than 60 opportunities to test the motors with changing faults, which will keep them engaged.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Motor Faults Pracbox in	UEENEEG006A UEENEEG108A UEEEL0024 UEEEL0014	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Motor operating voltage	Single phase 41.5V Three phase 24/41.5V	Extra-low voltage (ELV) so that you can use them safely
Types of induction motors you can cover	Split Phase Capacitor Start Capacitor Start/Capacitor Run Permanent Split Capacitor Three phase squirrel cage motor	Five motors in one equipment, which means more convenience, flexibility and cost savings
Total faults	30 sets of faults for three phase 30 sets of faults for single phase	Your students get at least 60 testing opportunities



Alternate Supplies Board

Alternate Supplies Board for assessing apprentices for units that require alternate supplies testing and isolation

1. Relevant assessments – We have used realistic components wherever possible to make sure the learners get relevant experience and assessment.
2. Better compliance – Alternate supplies board covers as many performance points and range of conditions as possible while maintaining safety.
3. Huge cost savings - We have designed the Alternate Supplies Board based on intensive research to build what's needed for the learners. You can enjoy well-designed equipment ready to go without bespoke design costs.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Alternate Supplies Board	UEEEL0047 UEEEL0014	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Simulated PV	Internal 24V power supply	You can use the Alternate Supplies Board in any classroom or workshop for truly flexible training and assessment
Realistic Assessment conditions	Offgrid Solar setup	Fully functioning Offgrid solar setup for realistic and current assessments with a main switchboard and final subcircuits
Product Size	Aluminium profile stand with heavy-duty wheels 1255mm x 800mm x 1672mm	Good size for practising testing at standing height. Nice finish and robust
Testing with ease	All components have test points before and after the isolation points	Conduct tests with ease with the test points before and after each isolation point to ensure isolation or recommissioning.
Safety	No LV access Additional circuit breakers	Learners will only have access to ELV for safety. Test points have additional circuit breakers for added circuit protection in case of accidental short circuit



Control Circuit Pracbox

Control Circuit Pracbox for assessing motor control subject in Electrotechnology

1. Make your pracs flexible – Since the Control circuit pracbox is portable, you can use it anywhere you have the required power access. This encourages flexibility in the learning environment.
2. Increase productivity and learner engagement – The Control Circuit Pracbox has about 70% of the components needed in the motor control subjects so you know that most of the required components are in one place. This saves you a lot of time, increases your productivity and learner engagement
3. Two versions – one with 3 phase ELV motor, and if you already have a 3 phase ELV motor, then the other version comes with a Soft Starter instead. This way you don't pay for something you already have.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Control Circuit Pracbox in	UEENEEG109A UEEEL0005	The equipment is designed for the Units of competency to make it easier for you to maintain compliance
Contactors setup	AC contactors with TOL and auxiliary contacts	Most motor control circuits in this UoC can be covered with this contactor setup
Timers	Multifunction timers	A wide variety of timer functions can give your learners the experience that they need.
Control devices	Pushbuttons Switch E-stop	You have the flexibility of using various types of control devices
Sensing devices	Inductive sensor IR Fork sensor Limit switches	Assess your learners with realistic sensing devices
Programmable relay	Programmable relay with 8 discrete inputs, 4 analog inputs and 4 relay outputs	Train your learners in programmable relays with this versatile module that comes with free programming and simulation software



Installation Faults Pracbox

Installation Faults (IF) Pracbox is a portable, fault finding and isolation equipment.

1. Keep your Electrical Team current and Train your apprentices on Mandatory Testing and Safe Isolation Procedures with the IF Pracbox.
2. It has options of 31 fault sets of varying difficulty for Mandatory testing.
3. It also comes with an Extra Low Voltage (ELV) power supply for Safe Isolation Procedure practice.



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Parameter	Details	Purpose and Benefit
Fault Testing	31 Fault sets	31 fault sets of varying difficulty for Mandatory testing, where there can be 1 to 3 faults at any time
Safe Isolation Power Supply	24V AC	Extra Low Voltage power supply for safety
Fault Control Access	Switch Control	Easy to engage and remove faults. No need for external devices or software
Mode Selection	Fault Mode VS Isolation Mode	Keeps the equipment safe by separating fault scenarios and power connection
Product size and weight	500mm x 440mm x 170mm 8kg	A good size and weight that allows for portability and easy storage



Portaphase

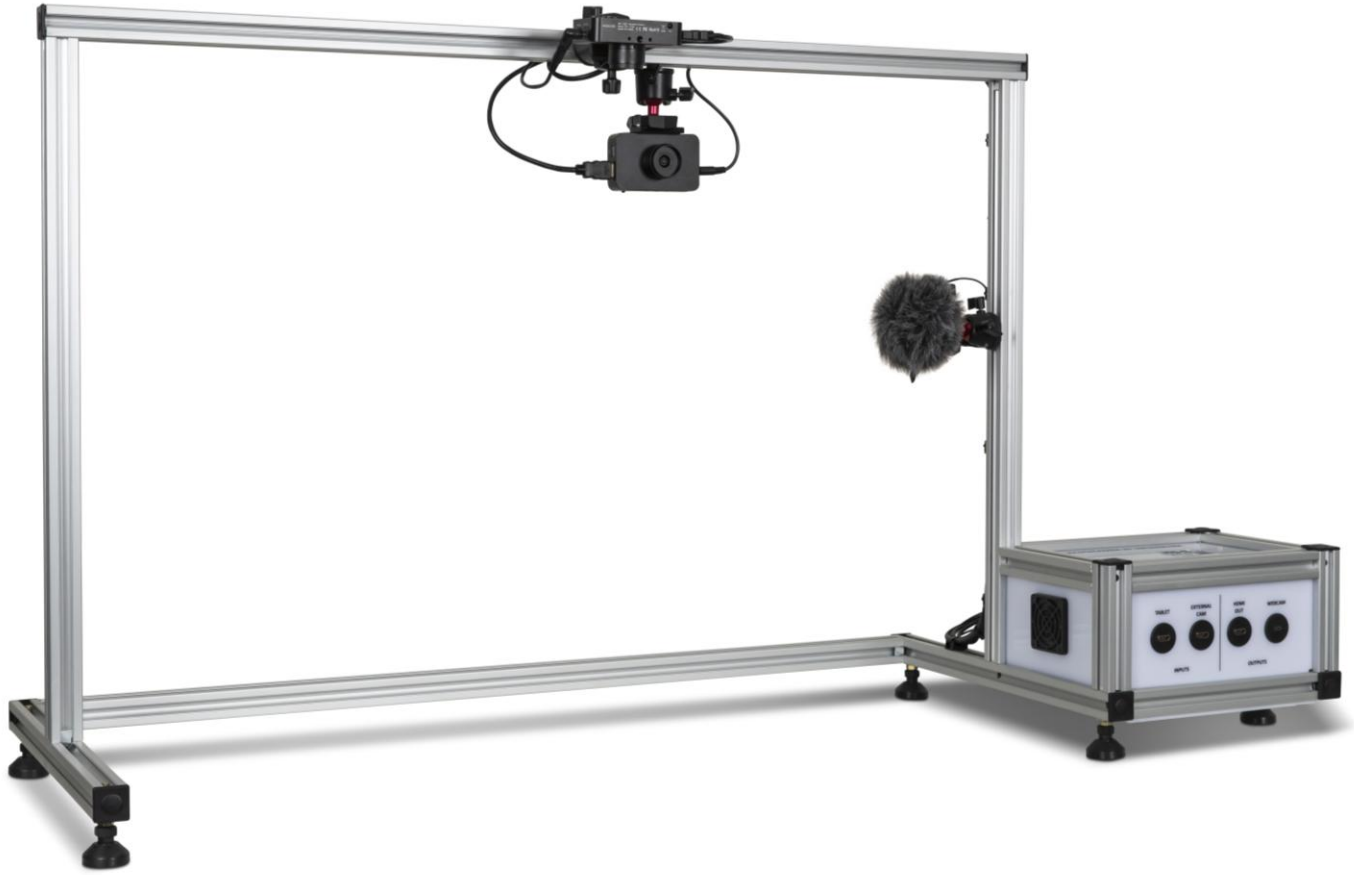
Portaphase is a single to three-phase power supply with safe, Extra Low Voltage (ELV) output for training and testing

1. Safety first - The output of the Portaphase is extra low voltage according to AS/NZS 3000:2018 and is considered a relatively safe voltage to work with and you don't need an electrician's license to work with it.
2. Affordable solution - Portaphase can be 5 times cheaper compared to getting three phase to a classroom because you won't need to hire Electricians or close the classroom while it's installed.
3. Train using three phase power almost anywhere - Portaphase is a portable unit that will work wherever you have a standard single phase power outlet. That's very flexible and convenient.



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Parameter	Details	Purpose and Benefit
Subjects can you use the Portaphase in	All subjects that require three phase UEENEEG102A UEEEL0020 UEENEEG006A UEENEEG108A UEEEL0024 UEEEL0014 UEENEEG109A UEEEL0005	The equipment is very versatile and can be used in a number of subjects
Output Voltage	Main unit: 24V/41.5V three phase Learner unit: Fixed 24V/41.5V three phase	Safe voltages that are within Extra low voltage category according to AS/NZS 3000:2018
Output Current	Main unit: Up to 7A per phase Learner unit: Up to 2A per phase	Enough current to conduct a variety of practical exercises and assessments
Product Size and Weight	Main unit: 550 x 450 x 250mm Less than 15kg Learner unit: 200 x 170 x 110mm Approx 2kg	It's a portable and flexible setup. Take it in any classroom or workshop to train or assess your learners



PracStreamer

PracStreamer for training face-to-face or virtually

1. Engage learners – With multiple cameras, you can focus on what you want your learners to see and increase the engagement
2. Train F2F or Virtually – The PracStreamer enables you to project your feed to a live audience or stream online at the same time
3. Massive cost savings – PracStreamer is a self-contained, portable unit that has multiple cameras, a microphone and a switcher with useful outputs. This will turn your classroom into a portable studio at a fraction of the cost



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Parameter	Details	Purpose and Benefit
Where can you use the PracStreamer?	Any training that requires a combination of practical and theory presentation	Engaging learners is extremely easy with the PracStreamer because you can focus their attention on what's important
Audio Visual devices	2 x HD Cameras 1 x Cardioid Microphone	High-definition cameras that provide a crisp video feed and a directional microphone for high-quality sound.
Switcher Inputs	1 x Tablet input 1 x External Camera input 1 x HDMI Output 1 x Webcam Output 12V supply	Tablet input turns your tablet into a smart whiteboard. External camera input can be used to increase the production value of the video by adding another camera or be used to connect another laptop
Switcher Outputs	1 x HDMI Output 1 x Webcam Output	HDMI Output allows you to project your feed to a TV or a projector. Webcam output turns your PracStreamer into a webcam and streams the feed to your online audience
Product Size and weight	Aluminium frame 1335 mm x 430mm x 740mm. Approx 12 kg	Lightweight and portable for turning any classroom into a studio. Nice finish and robust



Pracbox Trolley

Storage, portability and security made easy.

1. The ultimate lightweight, portable storage solution to move your Pracboxes between classrooms, for flexible training.
2. Purpose-designed for ease of use and accessibility – commercial castors, a lockable accessories cupboard, lockable compartments for up to 16 Pracboxes and a comfortable, extra-large handle.
3. Safeguard your investment with this secure unit to hold and protect all your equipment and accessories when not in use, with innovative design enabling you to see from a distance that all equipment has been returned.



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Parameter	Details	Purpose and Benefit
Material, Weight & Dimensions	Aluminium 80kg 1952mm (W) x 542mm (D) x 1384mm (H)	Lightweight and robust. Take it to any classroom or workshop to train or assess your learners.
Capacity: Pracbox compartment	16 Pracboxes	A full class-set of your Pracboxes in one place.
Capacity: Accessories compartment	460mm (W) x 300mm (D) x 1080mm (H)	Space for your accessories like meters, banana leads, cables, etc. with your Pracboxes – everything you need for your session, all in one secure place.
Security	3 lock points: 2 gate locks and Separate accessories cabinet lock	Secure and accessible – only unlock what you need.
Portability	Lightweight commercial grade aluminium Heavy-duty castors	Easy to move for flexible learning.



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