

LANGUAGE LAB EQUIPMENT

“Revolutionising your classroom into a fun-filled interactive learning centre”



Student Workstations

25mm tabletop thick prelaminated particle board finished with 2mm PVC edge bending, 18mm under structure and partition prelaminated particle board, 1 student table booth configuration, free standing workstation

Size (L x W x H) mm	750 x 540 x 750
Wire Management	Single hole per workstation for cables and wires

Student Chairs

25.4 x 1.8mm CRCA Round Pipe, 12mm plywood in seat and backrest, 32 ± 5 Kg/Cu meter thick PU foam in seat and backrest, moulded seat and back cushion, nylon base, medium back chair, fabric tapestry in blue colour with PP arms and no wheels, 40micron powder coated

Dimensions of Chair	Chair Height: 825mm ± 10mm, Backrest Height: 480mm ± 5mm, Backrest Width: 415mm ± 5mm, Seat Width: 440mm ± 5mm, Seat Depth: 450mm ± 5mm.
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All in one PC Integrated in monitor

Display	54cm (21.5 inches) diagonal LED IPS Display
Screen Resolution	1920 x 1080
Contrast Ratio	1000:1
Brightness	250 nits
Aspect Ratio	16:09
Audio	HD
Webcam	2MP Camera with Full HD IR
CPU	Intel Core i3, 10 th Gen, 3.0 GHz base frequency
RAM	4GB
Hard Disk	1TB
Wireless LAN Card/Wi-Fi	Inbuilt
OS	Windows 10
Ports	USB 3.0 ports x 2, LAN Port x 1, HDMI x 1, USB 2.0 ports x 2
Keyboard & Mouse	Wireless
Power Supply	Internal 130Watt power supply

Interactive Panel

Type/Technology	Touch LED Backlight in-plane switching technology
Panel Size (Diagonal)	86 inches
Touch Technology	IR Recognition
Native Resolution	UHD 3840 x 2160 (Pixels)
Touch Resolution	32767 x 32767
Contrast Ratio	10000:1
Brightness	600 cd/m ²
Touch	20 Points Touch, 10 Points writing 8mm and 2mm pen/stylus diameter and write with different thickness and colours simultaneously
Aspect Ratio	16:9
Colours	16 million colours (8 bit)
Mounting Arrangement	Wall Mount

Ports (Input/Output)	VGA In x 1, HDMI In x 3, PC slot In x 1, RS232 In x 1, Audio In x 1, Audio Out x 1, SPDIF Out x 1, HDMI Out x 1
USB Ports	USB 2.0 Type A x 3, USB 3.0 Type A x 2
Touch USB	USB Type B x 2
Communication Port	RJ45 x 1 (Gigabit) LAN Port
Camera Plate	Camera plate on top for Camera
In-built Speakers	20Watt x 2 speakers, 15Watt x 1 Sub-Woofer (2.1 Stereo Sound)
No. of Pen/Stylus	Two
Pen/Stylus Recognition	2 mm tipped pen/stylus with Dual Recognition
Pen/Stylus Holder	Magnetic holder at bottom panel
Orientation	Landscape
Viewing Angles	H = 178°, V = 178°
Response Time	15ms
4 Way Split Screen	Available with content sharing software
OS Support/Embedded Player	Windows/Macintosh/Linux/Android Embedded Player with inbuilt CPU
Touch Disable Feature	Available with ON/OFF
Networking Interface	DHCP (Auto identification) and Static IP
Surface Treatment	Scratch resistant, crack resistant, antiglare, 7H hardness
Save Option	Save direct to Google Drive and One Drive
Screen Mirroring and Content sharing	Users can mirror and share the content of Desktop and Laptop (Mac, Windows), multiple Phones/Tablets (iOS, Android) wirelessly, Wireless presentation allows to access Laptop / Desktop through Display
Test of knowledge	Participants can submit their answers from Smart Phones (Messaging Answering/Voting) via inbuilt tool
Quick Response code	File download feature in smart phone by scanning the QR code
VC Interface	USB based PTZ cameras (Software based)
HDMI Out Mirroring (Extended Display)	Content can be mirrored on two IFPD's simultaneously, deliver group discussion and spatial arrangement flexibility
Wireless & Bluetooth	Dual band (2.4Ghz and 5Ghz) along with 802.11AC standard up to 433Mbps transmission, fast Bluetooth 4.0 connection with Bluetooth Low Energy
Power Voltage	230V AC +/- 10%, 50 Hz
Power consumption	155 Watts
Annotation Features	Video, PPT, PDF, PC/ Laptop using smart phone, New, Open, Save, Save As, Import & Export (JPG, PNG, IWB, PDF, PPTX), Print, YouTube Drag & Drop, Magnifier, YouTube integration, Canvas moving, Inbuilt Animation libraries, Follow Me AI, Complete Ecosystem on mobile, web and PC, Google Education partner, casting in & Casting out from Remote locations via browser, Android & iOS Apps, multitouch enable or Disable, Switching between presentation & Preparation modes
Software Features	Laser Pen, Artificial intelligent Pen, Shape Pen, Magic Line Pen, Marker, Paint Brush, Highlighter, Different sizes available - Region eraser, Shapes, Text , Generic consist of

(shapes, 3D Shapes, Arrows & Tables), Image search from internet, Screen Curtain, inbuilt browser, screenshot, magnifier, Geometry Tools, Screen recording, webcam, desktop annotation, calculator, soft keyboard, Clock, Stop Watch White board with different backgrounds and colours, cloud storage, cloud Download, Page management system. Images available on internet like nature, sport, Daily necessity, animals

Accessories Wall mount bracket, cables and connectors, AC Power cord, Remote control, User Manual, Two Stylus

In-built Android Version 7

Dual Core 1.2 GHz, RAM 2 GB, Storage 16 GB

Integrated Mini PC

Intel Core i7, 9th Gen, 1.5 GHz, 8 GB RAM, 1 TB Hard Disk

Wi-Fi / Wireless LAN Card	In-built
Ports	HDMI x 1, LAN Port x 1, DP x 2, USB Ports x 6
Volume (in litres)	2
OS	Windows 10

6000 VA / 4800 W Online UPS

Power factor	100% Load, ≥ 0.99 @ nominal voltage
Nominal Voltage	200 / 208 / 220 / 230 VAC
Phase	single phase with ground
Input Voltage	160-300
Input Frequency	50-60 Hz +/- 5%
Output Voltage	200 / 230/ 240 VAC
Voltage Regulation	$\pm 1\%$
Frequency	47.5 ~ 52.5 Hz synchronized range, 50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz batt. mode
Overload	105% - 110% 10 min., 110% - 130% 2 min., >130% 2 sec
Current Crest Ratio	03:01
Harmonic Distortion	Linear load: $\leq 3\%$ THD, Non-Linear load: $\leq 6\%$ THD
Inverter to Bypass	0ms AC Mode to battery model
Transfer Time	0ms Inverter to Bypass
Waveform	Battery mode: Pure Sine
Efficacy	88% AC mode overall, 83% battery mode Inverter
Battery	12 V / 26 AH
Numbers	16
Recharge Time	8-9 hrs recovery (90% Capacity)
Charging Current	10% of Battery AH
Charging Voltage	216 VDC $\pm 1\%$

Environment

Temperature	0 - 40° Celsius
Humidity	<95 Condensing
Noise Level	<55dB @ 1 meter

Management

Smart RS-232	Unix, Linux, MAC, Windows 2000 / 2003 / XP / Vista / 2008 / 7 / 8
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SNMP

Power Management on Web Browser and SNMP Manager

LAN and electrical network components

One set of 6mm cable diameter with PE central cross separator, 4 pairs of cat6 23AWG UTP cable, solid bare copper conductor metal, 0.560mm (23 AWG) conductor diameter, 0.970mm insulation diameter in HDPE

One set of RJ45 Ports Auto Negotiation, MAC address table: 8K, Switching Capacity of 4.8 GBPS, Jumbo frame 2 KB, Packet forwarding rate 3.57 MBPS, 24- Port 10/100 MBPS, Auto MDI/MDIX, Green Technology: YES, Standards and Protocols: IEEE 802.3x.

One set of single section with front toughened glass door, strong steel end, frame embedded at top and bottom with cable entry provisions with lock & key, 19" Wall mount 4u rack, 400mm depth, PDU 19" horizontal 6-way 2.5 meters cable and 3 pin plugs, universal socket 5 amp with on/off switch and indicator.

Two set of fasteners, switch board, connectors, cables, screws, electrical accessories, sockets, I/O face plates, flexible pipes, conduit, baton.

Language Lab

OscarsPro Language Lab Equipment allows communication through video, audio, text, two-way communication between student and teacher, to track/listen to any student's recording and evaluate their academic performance, teacher can send alerts to student via audio chat or text chat, they can also create broadcasts and send assignments to the class and assign same or individual tasks to various group of students, they can assign task to students with a start and end date to let students complete their assignments in a defined time, teachers can create personalized audio video lesson resources, instructors can assign pre-recorded lessons for later dates, e-examination (paperless) with automatic submission of answer sheets on completion of set time, teacher can broadcast text message to one student or to a group of selected students, they can automatically create graphical representation of the recorded audio of the learner comparing it to the originals for self-assessment and evaluation, entire teaching and learning resource is available in neutral accent, main interface of the teacher is secure with password protection having multiple options to teach effectually in a dynamic manner, management dashboard provided with password protected login, there are options to monitor the real-time activities of both teachers and students and view various reports of scores, grades, performance graph/Bar/Pie in exercises, answer sheets, teacher and student attendance reports, teachers can able to upload PDF files, documents (e-books) for students for self-paced learning and able to provide writing assignments to the students, teacher can also deploy external storage device (USB, CD/DVD) to play or display the learning resources, our software is supported on Windows, Linux, iOS & Android and work on Desktop/Thin/Zero Client System as well. It also has a dedicated Android & iOS supported mobile application where Teacher can assign activities, student can do the assignments and Teacher can grade it accordingly. Our software is compatible with multiple languages, as content of multiple languages, content for all the languages English, Hindi & Sanskrit available from the same dashboard and elaborate usage reports for all the three languages. Students can make use of the content of all the three languages simultaneously from a single login ID. There are ample exercises for all three languages to master grammar, pronunciation, articulation, etc.

Sanskrit language

Our software and content help students to learn Sanskrit concepts from the very beginning. There is a separate section to self-assess your learning progress. It is a self-paced, activity-based learning software that contains 250+ activities to help learners to begin from basics and move on to make complete sentences in Sanskrit. There are multiple categories with 200+ words.

Lesson Plan

The lesson plan includes noun forms, 200 + Sanskrit words, learning mode and the practice mode, Sanskrit sandhi's through interactive exercises, animations, charts, tables, examples and games, assessments to practice the language skills, vocabulary, exercises to build foundation in grammar. The software allows you to apply language skills as well as grammar through simple text and for school. To sustain language learning flash cards are available. Multiple categories with 200+ words & synonyms.

Hindi Multimedia Content

The software includes Hindi literature content reference for poetry, poems, prose, etc. It includes components of Hindi grammar alankar, chand, pad parichay, vachay, Idioms, Synonyms, etc. for practice. Hindi vowels and consonants, combination of letters, commonly used words, greetings, etc, Hindi through English learning Hindi accent, pronouns, nouns,

adjectives, verbs, tenses, adverbs, , standard Devanagari script, standardisation of Hindi spelling, conjunctions, voice, construction, alphabets, pronunciation, anuswara & nasalization, order of words, multimedia gallery in Hindi is available for relating to day to day things like communications, sports, stationary, trees, costumes, festivals, musical instruments, religious, professionals, relations, universe, week, animals, body parts, colours, etc. There is an in-built library for Indian culture and heritage learning resources about Ramayana, Mahabharata, Shrimad Bhagavat Geeta, Indian Geography, Economy, Vedas, Upanishad, other Literatures, Dance, Music, Ayurveda, Yoga, Spirituality, Food, etc.

English Multimedia Content

Enhance the communicative English skills of the students of class 3rd – 10th with multimedia content, graphics, audio, video, based on Common European Framework of Reference with content levels – Beginner, Elementary, Intermediate, Upper Intermediate, Advanced, Mastery, the content is designed in such a way to strengthen skills; Listening, Speaking, Reading and Writing, Students can listen to the exact intonation of a word, record and compare both of them to study their learning progress, help student to identify the mistake and revise the variances, abilities of listening, recording and comparing of speech patterns both through AV, speech spectrograph for graphical visualization, software is based on Indian accent and tongue movement simulations for all the sounds to enable learning of proper pronunciation of sounds, it includes components to practice on word stress intonation, syllables. English grammar can be strengthened via animated situations and related practice exercises.

Teaching Method for Language Learning

The software combines features to learn English language skills by for faculty and students. It is based on instructor lead teaching and computer-based training to combined both traditional and modern learning practices. It includes predefined lesson plans with complete sub-division of each lesson of approximately half an hour each. Instructor is provided with an option to assign a similar task to all the learners and different tasks to different learners of the same class. Teachers can create tasks for students to practice later which can also be pre-set by teachers.

The student learning material is integrated with the content practice sheets for each level. To ace pronunciation, we provide sample videos, comparison, assessment lessons, words, pronunciation sounds, etc. Students can send the completed exercise to teacher for checking at the end of every exercise. The comprehension lesson plan comes with focus on comprehension, exercises with comparisons, assessment, expressions and situational dialogues, pre-recorded media provide speeches, lectures, documentary, movies, video, audio recorded files from poetry, writers, news to improve understanding of language. It includes sounds for all forty-four sounds of English using animation. There is a Mother Tongue Influence removal tool to overcome the problems of Indianism in language

Learning Content & Training

The training sessions include 1 day-6 hours training on operations of all the features of the language lab software and various aspects of language on its teaching methods, immaculate with minute-to-minute explanation of the teaching procedures, classroom learning material in the form of flash or cue cards. The students reference material is readily available with the software. The trainer videos are available in the software for the teacher to study in the future. Teachers can access these videos using a smartphone app which works on Android and iOS mobile phones

Report Generation and Assessments

The teacher's dashboard features include: Feature to automatically create reports giving details about each learner's tasks performed in terms of number of exercises performed, time duration spent on each such task daily, details about all the classes assigned to teachers, students' academic performance report both in textual as well as graphical format for numerous activities assigned to classes. With the help of our language software, creating reports to check and evaluate growth of students is quick and easy.

Management with password protected login, having an option to view the reports of both teachers and students in terms of scores, grades, graph/Bar/Pie in exercises. centralized report available to the Administrators/Governing Bodies on the usage of content by both the instructors and students for all the language lab software licenses. Separate reports available to the student as well as the teacher which shows the usage of the software by each of the students, teachers view all the answers submitted by students during practice sessions and be able to listen to the recorded exercises of the students. Teacher can give feedback to students on their audio recorded exercises both in text & audio formats,