

OscarsPro

DIGITAL LANGUAGE LAB

“Revolutionising your classroom into a funfilled interactive learning centre”



All-in-One

Diagonal Size	21" (53.34cm)
Resolution	1280 x 720 Native
Full HD Webcam	2.0 MP
Technology	LED Backlight
Contrast ratio	1000:1
Brightness	250 nits cd/m ²
HD Audio	Available
Aspect Ratio	16: 09
Power Consumption	145 watts
Ports	USB 2.0/3.0 ports x 4, LAN Port x 1, DP/HDMI x 1
Operating System	Windows 10
CPU	10 th gen Intel Core i3
Wi-Fi / Wireless LAN Card	In-Built
RAM and Hard Disk	8 GB RAM and 256 GB SSD
Mouse & Keyboard	Wired Keyboard & Mouse

Students Workstation (20)

Item	Student Workstation for Individual Student
Minimum Size	Worktop Height 750 mm, Length 750 mm, Width 540 mm
Design Type	Free Standing (Non integrated)
Worktop	Made up of 25 MM thick PLPB having decorative laminate on one side & balancing laminate on the other side. Edges sealed with 2 mm thick PVC Lipping fiitted by machine
Partition	Made up of 18 MM thick PLPB having decorative laminate on one side &

balancing laminate on the other side. Edges sealed with 2 mm thick PVC Lipping fitted by machine

Workstation Under structure Made up of 18 MM thick PLPB having decorative laminate on one side & balancing laminate on the other side. Edges sealed with 2 mm thick PVC Lipping fitted by machine

Electrical / Data Wires Passage : Provision given for wire carrier below the table top for passage of wires & a goromet cut of round shape given on the table top for smooth passage of wires.

Students Chair (20)

Chair Type	Medium Back Non Revolving
Seat & Back	Seat and Back of the Chair is made from PU moulded Foam having a minimum density of 32 Kg/m ³ with a tolerance of 5kg/m ³ . Seat & back is covered with blue or black color fabric
Overall height of Chair	Overall height of Chair is 825mm with a tolerance of +/-10mm
Size of Seat	The dimensions of Seat is 440 mm width x 450 mm depth and having a tolerance of +/- 5mm
Size of Back	Size of Back is 480mm height x 415mm width with a tolerance of +/- 5mm
Armrest	The armrest provided is of Polypropylene type / Polyurethane type
Understructure	The understructure frame is made up of cold rolled cold annealed 25.4 mm x 1.8 mm MS tube. 12mm thick ply also used in seat & back for better strength

Final Finish of Understructure : The understructure frame is given 7 tank treatment & then finally finished with powder coating upto thickness of 40 microns.

Network Switch

Standards and Protocols: IEEE 802.3x, Interface: 24 10/100Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX), Network Media:10BASE-T;, 100BASE-TX: UTP category 5, Switching Capacity: 10Gbps, Packet Forwarding Rate:3.57Mpps, MAC Address Table: 8K,Jumbo Frame 2KB,Buffer Memory: 2Mb,Green Technology: Innovative energy-efficient technology saves power up to 75%.

Cat6 23AWG UTP Cable

Twisted pair wire, U/UTP, cat 6, 23AWG, Type of cable: Twisted pair wire, Shield type / Shielding: U/UTP (unshielded cable), Outside diameter of wire / core: 6 mm / Conductor / 0,56mm (AWG23), Insulation: 0.970mm Diameter in HDPE, PE Central Cross separator Destination: for inside use, Bending radius: 40mm.

Baton, flexible pipes, screws, fasteners, switch board, sockets, I/O face plates, Cables and connectors, electrical accessories, conduit

Network Rack with electrical connectivity

Single section with front toughened glass door, strong steel end, universal socket 5 amp with on/off switch, indicator, 2.5 mtr cable, 3 pin plug and frame at top and bottom with cable entry provisions, lock & key, PDU 19" horizontal 6 way, Wall mount 4u rack 19" (400mm depth)

Interactive Flat Panel Display - Pro-DB-i6U

Display Size	65 inches
Technology	DLED backlight with IPS Panel
Resolution	3840 x 2160
Display Colour	8 bits -16 million colours
Viewing Angle H & V	178°
Aspect Ratio	16:9
Output Ports	Audio x 1
Input	RS232x1, USB Ports: USB 2.0 x 2, USB 3.0 x 2, HDMI x 3, Audio x 1, PC slot x 1
Dedicated Camera Port	USB Based
USB Ports (Touch)	USB Type B for Touch x 1
2.1 Stereo Sound	15-Watt x 1 Sub-Woofer & Built-In 20-Watt x 2 speakers
Camera Plate	On top (screw-in web cam installation)
Contrast	5000:1
Brightness	600 cd/m ²

Inbuilt OS	Support all Windows /Linux/Mac
Embedded Player	Android Embedded Player
Power Consumption	135 Watts
Power Supply	230V AC +/- 10%, 50 Hz
Stylus	Frame Holder with inbuilt magnetic mechanism for 2 Stylus
Interface	Communication through USB
Touch Resolution	32767 x 32767
Sensor Type	Touch IR
Touch Disable	Touch On/Off feature available
Touch Response Time	15 ms
Screen Type	Anti-glare, anti-crack resistant with 7 H hardness and scratch resistant
Dual Pen Recognition	Real-time lag free response rate with 2mm tipped pens, write simultaneously with different colours thicknesses, automatically pen detect diameter 8mm, 2mm
Touch and Writing	10 writing and 20 points Touch

Software Features

Integrated image search from internet, Search Light, Screen Curtain, inbuilt browser, screenshot, magnifier, calculator, soft keyboard, Clock, Stopwatch, Geometry Tools, Screen recording, integrated webcam, Desktop Annotation, White board with different backgrounds and colours, Cloud storage, Cloud Download, Page management system. Multiple numbers of images available with internet like nature, sport, Daily necessity, animals. ort documents/contents, Interactive software of the Touch Display can detect the Visual Presenter and, Multitouch enable or Disable, Switching between presentation & Preparation modes, Marker, Paint Brush, Highlighter, Laser Pen, Artificial intelligent Pen, Shape Pen, Magic Line Pen, Different sizes available with region eraser, Shapes, Text, Generic consist of (shapes,3DShapes, Arrows & Tables), Annotation of on video, PPT, PDF. Annotate on PC/ Laptop with the help of smart phone, New, Open, Save, save as, Import & Export (PNG, JPG, PDF, PPTX, IWB), Print, YouTube Drag & Drop, Magnifier, YouTube integration, Canvas moving, Inbuilt Animation libraries, Follow me AI, Complete Ecosystem om mobile, web & PC, Google for

Education partner, Casting in & Casting out from Remote locations via browser, Android & iOS Apps

Features

Supports USB based PTZ cameras allowing Software based Video Conferencing, File download feature in smart phone just by scanning the QR code, save directly to Google drive and One Drive, In-built Quiz tool to allow participants to submit answers from their Smart Phones Answering/Voting/Messaging

Certifications

RoHS BIS, CE, FCC

Inbuilt Android 8 - Dual Core, 3 GB, 32 GB Storage Memory

Accessories AC Power Cord, User Manual, Remote Control, USB Interface Cable, Stylus x 2, Wall Mount Bracket

Mini PC

Small Form Factor	2 Litres
Hard Disk	256 GB SSD
Wi-Fi / Wireless LAN Card	In-Built
Processor	Intel Core I7 10th Gen
Ports	HDMI x 1, USB ports x 6, LAN Port x 1
Operating System	Windows 10
RAM	8GB

Webcam - USB based - Pro 2KCAM-U

Technology	CMOS
IR Remote control	All parameters of camera can be remote controlled
Interface	USB 2.0/3.0
Field of View	120°
White Balance	Auto, Indoor, Outdoor, One Push, Manual

Resolution	1920 x 1080
Sensor	2MP
Backlight Compensation	Available
Digital Noise Reduction	2D, 3D
Microphone	Built in automatic gain algorithm, noise suspension, beamforming microphone array with up to 6 meters audio pickup distance
Zoom	4x
Video resolution	4KP@60/50fps, 720P@60/50fps, 1080P@30/25fps
Low Light Image sensor	Reduce image noise 2D, 3D noises algorithm and clear image in dim light conditions
AI Tracking	Powered Person Tracking Auto Framing
Certification	RoHS, BIS, CE

Online UPS

PHASE	Single Phase
CAPACITY	6000 VA / 4800 W
INPUT	
Nominal Voltage	200 / 208 / 220 / 230 VAC
Input Voltage Range	160-300VAC (Based on load at 100%)
Frequency Range	46Hz ~ 54 Hz@50Hz system +/- 5%, 56Hz ~ 64 Hz@60Hz system +/- 5%
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)
OUTPUT	
Output Voltage	220 / 230/240 VAC
Voltage Regulation	$\pm 1\%$
Frequency Range	47.5~ 52.5 Hz or 57 ~ 63 Hz

(Synchronized Range)

Frequency Range (Batt. Mode) 50 Hz \pm 0.25 Hz or 60Hz \pm 0.3 Hz

Overload

Current Crest Ratio 3:1

Harmonic Distortion \leq 3 % THD (Linear Load), \leq 6 % THD (Non-linear Load)

Transfer Time AC Mode to Battery Mode: Nil from AC Mode to Battery Model; Inverter to Bypass: Nil from Inverter to Bypass

Waveform (Batt. Mode) Pure Sinewave

EFFICIENCY

AC Mode (overall) 88%

Battery Mode (Inverter) 83%

BATTERY

Standard Model

Battery Type 12 V / 26 AH

Numbers 16

Typical Recharge Time 8 to 9 hours recover to 90% capacity

Charging Current (max.) 1A \pm 10%(10% of Battery AH)

Charging Voltage 216VDC \pm 1%

ENVIRONMENT

Operation Temp 0 degree 60 degree Celsius

Operation Humidity <95 and condensing

Noise Level Less than 50dB @ 1 Meter

MANAGEMENT

MANAGEMENT Supports Windows 2000 / 2003 / XP / Vista / 2008 / 7 / 8, Linux, Unix and MAC

Optional SNMP Power Management from SNMP Manager and Web Browser

Digital Language Lab - Sanskrit, Hindi, English (1)

License The proposed software has Life Time Perpetual License

Secured Login Instructor's main interface is password protected

Management Login Management's interface is password protected and can access to teacher's and students' real time activities, etc.

OS & Hardware Support Supports Windows, Linux, IOS & Android. Work on Desktop/Thin/Zero Client System.

Mobile Apps Android & IOS supported Mobile App, many instructor and learner activities can be conducted

External Media Instructor can use any external storage device like USB, CD/DVD, etc.

Multi Languages Compatible with multiple Languages. User can use same dashboard for all the languages English, Hindi & Sanskrit. Single ID for learner for all 3 languages.

English Multimedia Available from class III to X. with 8 levels of learning.

Content Learning Levels Available from Basic to Intermediate and Advanced. Content based on CEFR and should cater to-

i.A1 Beginner ii.A2 Elementary iii.B1 Intermediate iv.B2 Upper Intermediate v.C1 Advanced vi.C2 Mastery

Content is Interactive and multimedia based. Has audio and video, etc.

English Multimedia Based on LSRW. Focusses on the exact pronunciation of a word, recording is possible and then comparison between the recorded and original sounds. Has speech spectrograph for graphical visualization. Based on neutral (Indian) accent. Comes with jaw and tongue movement animations for all the sounds, Consists of words glossary. and components to work on

- Intonation

- Word stress
- Syllables

It caters to the basics of English grammar using animated situations and related practice exercises. Easy for teachers to use.

Teaching Pedagogy
(Methodology)

Based on the 'Blended Learning' mechanism, ILT and CBT.

Predefined lesson plans.

The Instructor can create tasks for students. The Instructor has the option to assign the same task to all the students or different tasks to different students of the same batch.

Sounds

Has Proper articulation for all 44 sounds of English

MTI

Has Mother Tongue Influence (MTI) removal tool

Self Assessment

Has self assessment & send the exercise to teacher for evaluation

Pronunciation

Has sample lessons, words, pronunciation sounds, videos, etc.

Comprehension

Has lesson plan with focus on expressions, situational dialogues, exercises with comparisons & assessment, etc.

Resource Material &
Training

Training on-

- Usage of all the features
- Various aspects of language on its teaching pedagogy
- Proper detailed trainer manuals • In depth description of the teaching procedures. •Classroom reference material
- Training videos in the software. • Videos on mobile app
- Students reference material / workbooks

Student Material

It has Students material in the form work books integrated with the content.

Pre Recorded media

It has Audio / Video recorded files from Poetry Masters, Speeches, Lectures, Documentary, etc.

Hindi Multimedia Content	Multimedia content has Hindi Vowels and Consonants, Words etc.
Hindi through English	It has Content for learning Hindi Alphabets, Pronunciation, Anuswara & Nasalization, Accent, Pronouns & Nouns, Order of Words, Standard Devanagari Script, etc.
Hindi Literature	Comes with reference to Hindi literature, poetry, poems, etc.
Hindi Grammar	It has Hindi grammar like: Alankar, Chand, Idioms, Synonyms, etc.
Picture Gallery	It has Multimedia gallery like: Animals, Body Parts, Colours, Communications, Costumes, Festivals, etc.
Knowledge bank on Indian Culture & Heritage	It has details about Indian culture & heritage, Vedas, Upanishad, Ramayana, Mahabharata, Shrimad Bhagavata Geeta, other Literatures, Dance, Music, Ayurveda, etc.
Sanskrit language content concept	It helps in learning Sanskrit from basics onwards, Self-paced activities
Vocabulary Builder	Comes with flash cards, Has multiple categories with 200+ words and synonyms. Has meanings for words in English and Hindi, Has Brain Games for exercising Sanskrit.
Sanskrit Language Lesson Plan	It has Lesson plans and Learning mode and the Practice mode. it has Sanskrit Sandhis through animations, charts, tables, interactive exercises, etc. Based on LSRW Helps in building your Vocabulary for using the language.
Licensed User Terminals	License for 20 terminals
Reports & Analysis	Instructor's dashboard - Classes assigned, Students performance report details. Report about individual learner's activities. Generates reports about the usage of the software by each of the instructor. Instructor can also listen to the recorded exercises, can give remarks. Generates centralized report for Administrators.
Intercom	Two way intercom communication between instructor & learner is available.
Broadcast	Instructor can broadcast text message is available

Audio Supervision	Instructor can listen to any students recording is available
Chat	Instructor can send alerts to student through Text Chat or Audio Chat is available
Assignments	Instructor can create assignments & broadcast to the class. Given expiry and starting date
AV Lessons	Instructor can create personal audio video lesson contents.
E-exam	Paperless e-exam with automatic submission of answer sheets is available
Audio modulation	Graphical representation on the recorded audio of the learner is available
Accent	The entire teaching - learning content is available in neutral accent.
E-Books	Instructor can upload PDFs and writing assignments.
Accessories	Installation with all standard Accessories as applicable of Digital lab.