

### Technical Specification for AURA X Welding Simulator

S.No	Description	Range/ Qty
1.	Input Supply	230V, AC, 1Ph, 50Hz
2.	Process support	SMAW / GMAW /GTAW Fusion Mode
3.	Weight of complete package	Max 60 kg including all accessories
4.	Max power consumption	500 W
5.	Display Monitor	32" inch screen or more
6.	Random Access Memory - System	8GB or more
7.	Video RAM	3 GB or more
8.	Welding position competency	1G,2G,3G,4G,5G,6G1F,2F,3F,4F,5F,6F
9.	Built in Lessons	100 or more
10.	Licensed windows based operating system	One no
11.	User login & Grading facility	Unlimited users
12.	Report feature	On-screen and also Exportable to CSV/Excel Format, email reports
13.	Report content in user login	Students score cards, number of plates practiced for each weld position
14.	Report content in admin login	Score cards, number of plates for each weld position and training cost savings summary
15.	Calibration method	User – self calibration
16.	Connectivity	Wi-Fi
17.	SMAW ,GMAW , GTAW torch	01 no each based on model chosen
19.	Electrode consumption simulation	Retractable electrode
20.	On screen feedback parameters	<b>SMAW</b> <ul style="list-style-type: none"> <li>• Work angle</li> <li>• Travel Speed</li> <li>• Welding discontinuity and arc length</li> </ul>

		<p><b>GMAW</b></p> <ul style="list-style-type: none"> <li>• Work angle</li> <li>• Electrode Stick out</li> <li>• Travel Speed</li> </ul> <p><b>GTAW</b></p> <ul style="list-style-type: none"> <li>• Work angle</li> <li>• Non-consuming Electrode Stick</li> </ul>
21.	VR/AR/XR Helmet	1 no
22.	Gloves	2 pairs
23.	Apron shield	1 no
24.	Metal thickness option – Thin metal (single pass)	3 mm - 6 mm
25.	Metal thickness – Thick Metal (multi-pass, retaining weld from the previous pass)	6 mm – 15 mm
26.	Cross- sectional View option in thick metal	Unlimited sections in 3D
27.	Mistake Proofing alerts for wrong weld position, wrong torch for process selected	On screen message & Pictorial illustration
28.	Polarity Selection:	DC+, DC- and AC
29.	Job selection method	Virtual work-piece, which will not be lost or Damaged Optional Physical Workpieces who position is exactly mapped
30.	Simulator welding ambience	No physical spark & Fumes
31.	Post weld analysis methods	NDT and DT equivalent
32.	Working environment	<ol style="list-style-type: none"> <li>1. No requirement of Air Conditioning</li> <li>2. Simulator working should not be affected by lighting conditions of the room</li> <li>3. Simulator working should not be affected by electromagnetic devices like welding machines, transformers, in the same lab</li> </ol>