

## TECHNICAL SPECIFICATION FOR AUGMENTED REALITY HEADSET (Holographic Lenses)

S.No	Specifications	Complied/ Not complied	Reference page No
1	General:		
	a. Untethered		
2	b. Support for popular augmented reality development platforms to create mixed reality experiences.		
	<u>Display</u>		
	a. Optics: See-through holographic lenses (waveguides)		
	b. Resolution: 2k 3:2 light engines		
3	c. Holographic density: >2.5k radiants (light points per radian)		
	d. Eye-based rendering: Display optimization for 3D eye position		
	<u>Sensors</u>		
	a. Head tracking: 4 visible light cameras		
4	b. Eye tracking: 2 IR cameras		
	c. Depth: 1-MP Time-of-Flight (ToF) depth sensor		
	d. IMU: Accelerometer, gyroscope, magnetometer		
	Camera: 8-MP stills, 1080p30 video		
5	<u>Audio and speech</u>		
	a. Microphone array: 5 channels		
6	b. Speakers: Built-in spatial sound		
	<u>Human understanding</u>		
	a. Hand tracking: Two-handed fully articulated model, direct manipulation		
	b. Eye tracking: Real-time tracking		
7	c. Voice: Command and control on-device; natural language with internet connectivity		
	d. Windows Hello: Enterprise-grade security with iris recognition		
	<u>Environment understanding</u>		
8	a. 6DoF tracking: World-scale positional tracking		
	b. Spatial Mapping: Real-time environment mesh		
	c. Mixed Reality Capture: Mixed hologram and physical environment photos and videos		
9	<u>Compute and connectivity</u>		
	a. SoC: Qualcomm Snapdragon 850 Compute Platform		
	HPU: Second-generation custom-built holographic processing unit		
	b. Memory: 4-GB LPDDR4x system DRAM		
	c. Storage: 64-GB UFS 2.1		
	d. WiFi: Wi-Fi: Wi-Fi 5 (802.11ac 2x2)		
10	e. Bluetooth: 5		
	f. USB: USB Type-C		
11	<u>Fit</u>		
	a. Single size		
12	b. Fits over glasses		

9	<u>Software</u>		
	a. Windows Holographic Operating System		
	d. Microsoft Edge		
	e. Dynamics 365 Remote Assist		
	f. Dynamics 365 Guides		
	g. 3D Viewer		
10	<u>Power</u>		
	a. Battery life: 2–3 hours of active use		
	b. Charging: USB-PD for fast charging		
	c. Cooling: Passive (no fans)		
	d. Contains lithium batteries		
	<b>Number of Units Required : 1</b>		