



## KTS Series - Navtech Radar

SPECIFICATIONS		KTS350-X
<b>Dimensions</b>		
<b>Measurements</b>	H545mm x D420mm - 21.5inch x 16.5inch	
<b>Weight</b>	11kg / 24.2lbs	
<b>Radar characteristics</b>		
<b>Max range</b>		
<b>Radius</b>	500m / 1640ft	
<b>Full range (diameter)</b>	1000m / 3280ft	
<b>Range resolution</b>	0.175m / 0.57inch	
<b>Measurement rate</b>	400 per rotation	
<b>Field of view</b>	360°	
<b>Beam shape</b>		
<b>Horizontal</b>	1.8°	
<b>Vertical</b>	3.6°	
<b>Azimuth sampling</b>	0.9°	
<b>Connection</b>		<b>Connectors</b>
<b>Power</b>	M12 5 wire Phoenix Contacts	
<b>Ethernet</b>	CONEC IP67 connector - RJ45 CAT5e - 1 Gbps ethernet	
<b>Earth</b>	M5 thread	
<b>Pressurisation valve</b>	Yes	

Network	
<b>Speed</b>	100/1000Mbps (configurable)
<b>Bandwidth</b>	<0.5Mbps per radar in normal operation ~38Mbps viewing full disc raw data (for commissioning only)
Direct power variant	
<b>Voltage input</b>	24V DC
<b>Tolerance</b>	21.6V to 26.4V
<b>Consumption</b>	30W (60W with heater activated)
Environment	
<b>Operating Temperature</b>	-20°C to +60°C / -4°F to +140°F
<b>Enclosure</b>	UL50/50E
<b>Weather</b>	Fully functional in wind, rain, snow, fog, ice, humidity 0-100% condensing
<b>Visibility</b>	Full performance through fog and smoke
<b>IP rating</b>	IP67
<b>Saline</b>	BS EN 60068-2-52:1996 Test Kb Severity 3
Electrical and radio	
<b>Radar frequency</b>	35-36 GHz
<b>Compliance</b>	KC, FCC, ISED
Software	
<b>Protocols</b>	TCP/IP, UDP, IPv4, HTTP, HTTPS, TLS1.2, SSH
<b>Interface</b>	Vertex via web browser
<b>Authenticated access</b>	Yes
<b>Signed software</b>	Yes - SHA512

## Security

<b>Encryption library</b>	Botan
<b>Authentication</b>	Yes (password change or reset through admin account)
<b>Account management</b>	Password update only (3 inbuilt accounts)
<b>Firewall / Access Control</b>	Yes
<b>SSH</b>	Yes
<b>Secure mode</b>	Yes (closes port 80, only allows SSH with secure key, no UDP multicast)

## DIMENSIONS

