

Appendix – B - Compliance Matrix – P25 OPP0015648

04-October-2017

| The Specification | The Verification | Requirement fulfilled | | How We Comply |
|---|---|-----------------------|----|---|
| | | Yes | No | |
| The Eagle P25 offers, robust standard features and advanced options. Ideal for heavy traffic gateways, with a 2.5MeV X-ray imaging system they provide a thorough inspection and high throughput of vehicle borne cargo and buses | | ✓ | | |
| Physical Specifications | | | | |
| Platform Type | Portal Scanner | ✓ | | Portal scanner |
| Platform | Stationary drive through X-ray scanner. | ✓ | | Ability to pull cargo dollies through on winch |
| View Direction | Side shooter | ✓ | | Side shooter |
| Overall Dimensions | Length: 3.4 m, Width: 8.4 m, Height: 5.7 m | ✓ | | Length 3.4m, width 8.4m, height 5.7m |
| Scan Area Dimensions | Width: 4.6 m, Height: 4.7 m | ✓ | | Scan area 4.6m wide x 4.7m high |
| Recommended Maximum Vehicle / Object Scan Size | Length: Unlimited, Width: 2.8 m, Height: 4.6 m | ✓ | | Maximum object scan size 2.8m wide by 4.6m high |
| Minimum Scan Height | 0.4 m from ground | ✓ | | Minimum scan height 0.4m from the ground |
| Scan Orientation | 90° to inspected object | ✓ | | Scan orientation 90 degrees to inspected object |
| Operation | | | | |
| Set-up | 15 minutes in standard operating environment | ✓ | | Set up in 15 minutes |
| Crew | 2 inspectors, system operator and optional check in inspector | ✓ | | Up to two inspectors |
| Scan Modes | Portal drive-through scan mode only | ✓ | | Portal mode |
| Scan Direction | One direction – Multi-direction option | ✓ | | Single direction included |

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|---|---|-----------------------|----|--|
| | | Yes | No | |
| Scanning Speed | 3-8 km/hour | ✓ | | Scan speed 3-8km/h |
| X-Ray Generator and Image Performance* | | | | |
| Linac Energy | 2.5MeV | ✓ | | 2.5Mev Rapiscan linac included |
| Steel Penetration | 190 mm in cargo scan 70mm in bus or cab scan mode | ✓ | | Steel penetration up to 190 mm |
| Radiation Detection (option) | Integrated Gamma and Neutron Radiation detection | | ✓ | Radiation detection not included in the solution offered |
| Operating Environment* | | | | |
| Operational Temperature | -10°C to +40°C -40°C with optional cold weather package +55°C with optional hot weather package | ✓ | | Operational temperature offered -10 degrees to plus 40 degrees Celsius offered |
| Relative Humidity | 0 to 95% non-condensing | ✓ | | Relative humidity 0-95% non-condensing. |
| Maximum Baseline Wind Speed | 40 km/hour | ✓ | | Maximum baseline wind speed 40km/hr |

| Radiation Safety* | | | | |
|---|---|---|--|--|
| Open Radiation Exclusion Zone | Length: 22 m x Width: 31 m | ✓ | | Open radiation exclusion zone 22 m long by 31 m width |
| Shielded Radiation Exclusion Zone | Length: 15 m, Width: 31 m Length is the travel direction the width is the beam direction. | ✓ | | Shielded radiation exclusion zone length 15 m by 31 m wide |
| Radiation Dose at Exclusion Zone Boundary in One Hour | 0.5 µSv/hour | ✓ | | Radiation dose at exclusion zone boundary in one hour 0.5 µSv per hour |

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|------------------------------------|---|-------------|----|---|
| | | Yes | No | |
| | | | | |
| Radiation Dose to Driver | less than 0.25 μ Sv per scan | ✓ | | Radiation dose to driver in an enclosed truck with irregular passes less than 0.25 μ Sv per scan |
| Radiation Dose to Crew in One Hour | 0.5 μ Sv/hour | ✓ | | Radiation to crew in safe operational office are in one hour 0.5 μ Sv per hour |
| Radiation Dose to Cargo per Scan | Less than 50 μ Sv in cargo scan mode Less than 0.25 μ Sv in cab scan or bus mode | ✓ | | Radiation dose to cargo per scan less than 50 μ Sv per scan in cargo scan mode and less than 0.25 μ Sv in cab or bus scan mode |
| Shielding Type | 0.8m thick concrete shielding wall detector side, 0.4 m thick shield wall linac side | ✓ | | Shielding type 0.8m thick concrete shielding wall on the detector side and 0.4m thick shield wall on the linac side. The provision of this shielding has not been included in Rapiscan's pricing. |