

APACHE portal

Eagle-eye beware.

The steely and generally four-footed Indians made by AKL-tec have been in use for seamless freight scanning and accurate documentation from as early as 1996. The APACHE portal system as a freight checkpoint including volume measurement, scales and photography, is the most successful member of the family – even available in a legal for trade version since 2008.

The freight is carried to the checkpoint by a forklift, a hand-operated lifting car or an electric lifting car. There it is placed on a platform scales and APACHE portal's sharp eyes are already putting the object accurately under the magnifying glass. The length, breadth, height, loading aid, volume, weight and photograph are displayed, stored and documented.

In forwarding, APACHE portal provides the exact freight data for delivery notes and tracking the consignment. For logistics service-providers such as forwarders, in air-freight companies and airlines, the alert Indian assists with tracking down freight that has been declared too light.

For example, if pieces of freight are “bulky”, i.e. their volumes are exaggerated in comparison with their weight, logistics companies and dispatchers need to talk to each other urgently. APACHE shows the way to do this. This hidden bulkiness and low declarations, as well as their transparency and accuracy in particular, have led to considerable additional income for many APACHE users.

Flexible installations, the simplest operation and intelligent add-on modules in hardware and software, as well as fully developed interfaces to superposed systems have made the integration of portal scanners real success stories. Many references and more than ten years of experience associated with several hundred new ideas and expansions make APACHE portal a true all-round performer in freight scanning and documentation.



Technical Data:

Dimensions Length Width Height	360 cm (or 460 cm) 330 cm 340 cm The dimensions apply to an APACHE portal movable system with a measuring area of 2.5 m x 2.5 m or 2.5 m x 3.5 m. The dimensions of an APACHE portal system depend on the mount of choice (ceiling, wall, free-standing).
Measuring Area	250 cm x 250 cm or 350 cm x 250 cm. The maximum measuring area is determined by the travel length of the measuring beam.
Measuring Height	Maximum 280 cm
Speed of Movement	The measuring axis moves at a constant speed of 20 m/min
Method of Measurement	Two infrared scanners (fan scanners) are driven on two linear guides over the freight and load carrier to be measured. Movement is tracked with an incremental encoder. Over the run, the heads perform gapless scanning.
Measurement Uncertainty (MPE)	Length, width of the smallest enclosing cuboid (covering box) 2 cm
	Height of the smallest enclosing cuboid 1 cm
Division	Length = 2 cm, Width = 2 cm, Height = 1 cm
Weighing	In the form of a weighing platform as a rule. Weighing platform 250 cm x 250 cm or 250 cm x 200 cm or 200 cm x 200 cm The platform size, material load, weighing range and resolution can vary. <i>The technical data of the weighing station must be taken from the weighing station manufacturer's technical documentation.</i>
Limitations/Exclusions	Measurement of non-transparent, i.e. opaque, objects only. Measurement of dimensionally stable / form-stable objects only.
Protrusion	Protrusions on the object smaller than 4 cm in length and width, or 1 cm in height are ignored when measuring the smallest enclosing cuboid.

Connectability of Weighing Station	<p>Legal and type-examination tested weighing stations according to OIML R76 and MID.</p> <p>Display unit with serial data interface (RS232, RS422, RS485).</p> <p>Display equipment that performs a standstill check before data output</p>
Computer Platform (IPC)	<p>Analytical computer APACHE portal with Windows XP ®</p>
Communication	<p>TCP/IP Ethernet 10/100 over RJ45 plug, RS232 / RS422 over D-SUB plug.</p>
Operating panel	<p>Touch panel as user input interface for secondary data. Visualization of measurement results and images.</p>
Power connection (APACHE portal)	<p>230VAC, 16A in terminal compartment; access through switch cabinet socket <u>Standard:</u> Not over protective circuit interrupter</p>
Power connection (APACHE portal moveable)	<p>230VAC, 16A earthed/grounded plug with transformer also after protective circuit interrupter</p>
IT Connection	<p>10/100 Mbit/s <u>Standard:</u> 2 x RJ45 sockets on computer <u>Alternative:</u> Patch socket in switch cabinet <u>Alternative:</u> RJ45 socket (CAT.5) in the side wall <u>Alternative:</u> WLAN 802.11a-g</p>
IPC	<p>Intel CoreDuo with 1.66 GHz 1024 MB DDR2 SO-DIMM 80 GB 2.5" hard disk 24 V_{DC} power supply 2 x 10/100 Mbit/s Ethernet 2 x USB 2.0 1 x PS/2 for KB and Mouse 2 x RS232</p>

Operating Conditions	Operating Temperature:	0° C to +40° C (+32° F to +104° F)
	Humidity:	maximum 85% non-condensing
Transport options (APACHE portal movable only)	Folding stand and option for transporting in a truck swap-body.	
MTBF	Mean time between failures of the laser probes is 40,000 h according to the manufacturer's specifications. The service life of the laser diode has been taken into account in this value	
Standards	WELMEC 7.1 Issue 2, May 2005 (Informative Document) WELMEC 7.2 Issue 1, May 2005 (Software Guide) WELMEC 7.3 Issue 1, November 2003 (Alibi Recording Device) OIML R:129 DIN EN 292 <i>Sicherheit von Maschinen, Geräten und Anlagen</i> DIN EN 60204.1 <i>Elektrische Ausrüstung für Industriemaschinen</i>	
Type Approval (APACHE portal LFT only)	OIML R:129 MID009	
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