

## HOKUYO UAM-05 SAFETY LASER SCANNER

UAM-05LP-T301  
Safety laser scanner, 5m, connecting cable 3m

- Protection zone 5m
- Warning zone 20m
- Versatile scanner for various applications
- Type 3, SIL2, PLd



### PRODUCT DESCRIPTION

UAM-05 is the smallest safety laser scanner on the market packed with outstanding features. Extremely compact size, dimensions are only 80x80x95mm. Resolution can be selected between 30, 50, 70 and 150mm. Warning zone by default is 20 meters.

UAM is a perfect component for AGV applications as it features 32 area patterns which can be programmed via encoder input or static input. The scanner has a raw data output for transferring measured data from the surroundings.

Muting/override function enables the use in various muting-applications.

With the EDM function the scanner can monitor the input signal from the controlled machine so that the scanner can be used as a independent "stand-alone" unit without an external control unit.

The scanner can be utilized in horizontal and vertical mounting orientations.

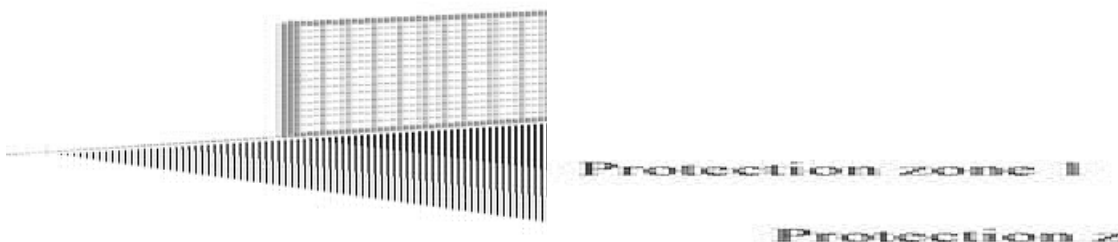
Scanning area

The scanning area consists of protection zone and warning zone with up to 32 programmable patterns. UAM also supports Dual Protection Mode, in which the scanner monitors two separate hazardous areas simultaneously.

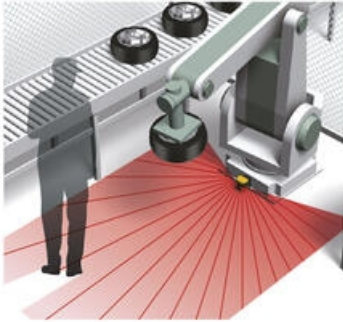
In the picture illustrated below

- 1) Protection zone 1, warning zone 1 warning zone 2
- 2) Protection zone 1 and protection zone 2

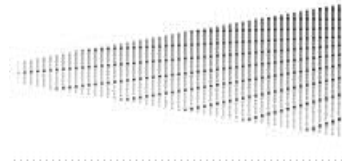
The Dual Protection Mode (pictured on the right) does not support warning zones like in standard mode.



Applications



Area control (fixed)

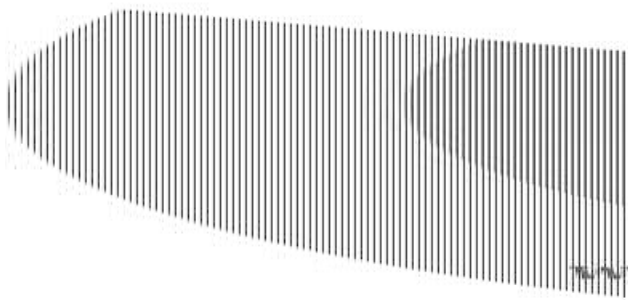


Area control (moving)



Access control

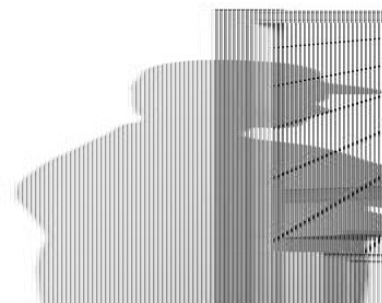
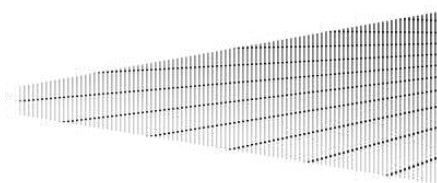
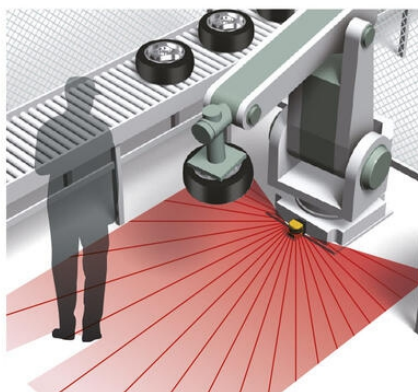
Scanning area  
5 meter protection zone and 20 meter warning zone with 270° detection range.

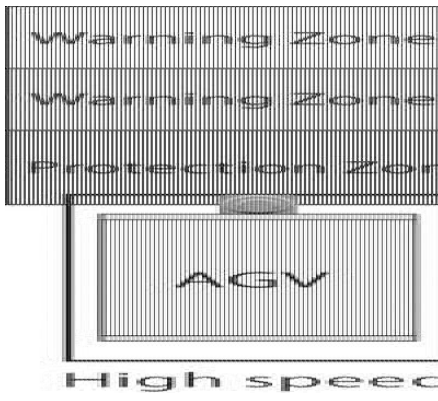


## TECHNICAL DATA

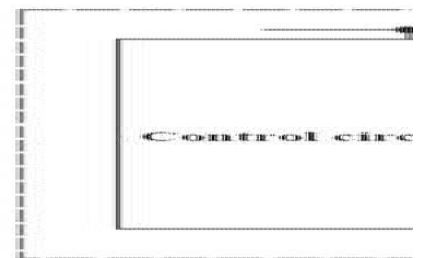
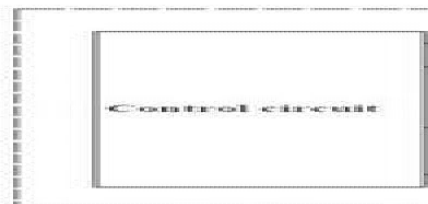
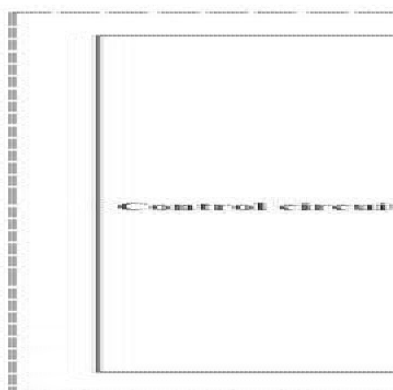
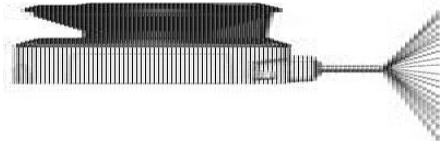
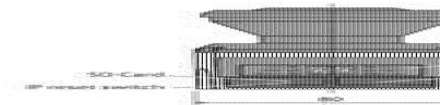
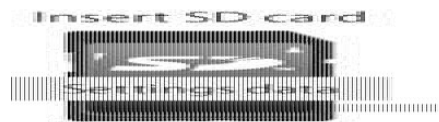
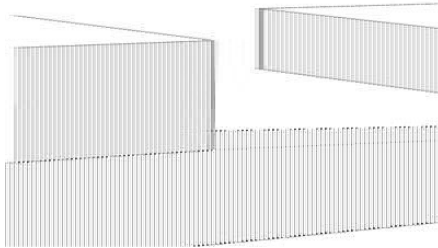
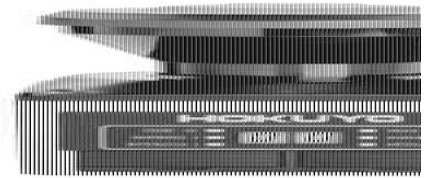
<b>Approvals</b>	BG, CE, cULus, TÜV
<b>Connection type</b>	3m cable, USB2.0 (Micro USB type B), RS-485, Ethernet
<b>Exit time max</b>	510 ms
<b>Exit time min</b>	60 ms
<b>Height</b>	95 mm
<b>In compliance with</b>	EMC, LVD, MD
<b>Input type</b>	32 patterns (5 inputs x 2 channels), EDM/RESET/MUTING1/MUTING2/OVERRIDE (1 input x1 channel)
<b>IP class</b>	IP65
<b>Laser class</b>	Class 1

<b>Length</b>	80 mm
<b>Material front glass</b>	Polycarbonate
<b>Material of body</b>	Aluminium
<b>Number of security fields</b>	128
<b>Optics</b>	Laser class 1, 905 nm
<b>PFHd</b>	7,8x10 <sup>-8</sup> without master/slave; 1,6x10 <sup>-7</sup> with master/slaven
<b>PL</b>	ISO13849-1 : PL d Category3
<b>Resolution</b>	30 mm (max. 1,8 m), 50 mm (max. 3,0 m), 70 mm (max. 5,0 m), 150 mm (max. 5,0 m)
<b>Safe outputs</b>	4xOSSD
<b>Scanning angle</b>	270 °
<b>Security field max</b>	5 m
<b>Signal outputs</b>	2xOSSD
<b>SIL</b>	IEC61508 : SIL2
<b>Supply voltage</b>	24 V DC
<b>Temperature operational max</b>	55 °C
<b>Temperature operational min</b>	-10 °C
<b>Tolerance</b>	+100 mm
<b>Type</b>	IEC61496-1/3 : Type3
<b>Warning field max</b>	20 m
<b>Weight</b>	0,8 kg
<b>Width</b>	80 mm
<b>Voltage tolerance</b>	±10 %





Warning Zone 2 —  
 Warning Zone 1 —  
 Protection Zone —



• OSSD 1/2 indicator .....

• Warning 1 indicator .....

• Interlock 1 indicator .....