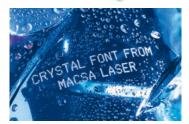
K - SERIES

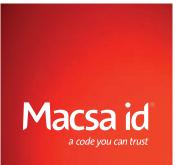
A VERSATILE RANGE OF CO₂ LASER PRODUCTS FOR HIGH QUALITY

CODING AND MARKING AT A VERY LOW COST









K-1000 by MACSA Fast. Powerful. Reliable.

A CODE YOU CAN TRUST

- THE INCREDIBLY COMPACT DESIGN along with an adjustable marking head ensures that you can install this system on even the most complicated production lines. The system can even be integrated with other manufacturer's equipment.
- THIS EASY TO USE SYSTEM
 works through a combination of
 extremely fast mirror tracking
 systems and the most modern
 software and hardware you can be
 assured of reliable high speed
 marking.
- THE LATEST IN LASER
 TECHNOLOGY along with the fact
 that you don't need expensive
 replacements results in a system
 that requires little maintenance,
 minimal operational costs and no
 headaches.
- THE MARKING PROCESS

 is unimpeded because you don't need an expensive and space consuming PC on the production line. Furthermore in Macsa lasers, with MACSA's software, you can link several K-1000 laser systems together for even greater control and increased production or to increase the graphic features of the K-1000 laser connecting a PC through the full graphic interface kit.
 - SROLLE MACS A SHS

- ALL OF THESE FEATURES
 ensures that everyone of
 your products is marked
 with the same high degree
 of quality and permanence
 guaranteeing accurate
 identification for the
 lifetime of your products.
- A DIVERSE RANGE OF MATERIALS can be marked utilizing the K-1000 system including labels, cardboard, PET, glass, coating and wood.















USER INTERFACE

FOR LASER SYSTEMS

HAND-HELD TERMINAL (1)

Connection via RS-232 with ScanLINUX software included in laser marking system • creation and editing of text messages • able to create up to 4 lines of text • 4 types of MFF fonts • modify message XY position • time marking in multiple formats • clock adjustment • sequential numbers • password protection system.

TOUCH SCREEN (2)

Connection via RS-232 with ScanLINUX software included on marking laser system • Handheld Terminal emulator • allows control of the laser marking system from a remote touch screen

PERSONAL COMPUTER (3)

Connection via TCP/IP [Marca LiteTM] or Ethernet TCP/IP [MarcaTM] • compatible with all kinds of operating systems Windows NT/Me/2000/XP/7/8 • able to control the laser marking system from a remote PC • confers powerful graphics capabilities • able to create messages in all of the marking area.





SOFTWARE

FOR LASER SYSTEMS

SCANLINUX $^{\mbox{\scriptsize M}}$ V 3.3 INTERNAL SOFTWARE CONTROLLING THE LASER MARKING SYSTEM (4)

ScanLINUX is the internal software running on LINUX managing the laser marking system
• ScanLINUX allows the operation of the Handheld, Touchscreen, Marca Lite™ and Marc™ software
• ScanLINUX includes Crystal Font™ dot matrix fonts
• ScanLINUX software provides the option of changing the menu language of the Handheld terminal. It also allows the user to see the number of marks made during a printing session without going out of the printing menu.

MARCA LITE $^{\text{M}}$ V 5.3 SOFTWARE FOR NETWORKING, STATIC AND DYNAMIC APPLICATIONS VIA TCP/IP [5]

Easily installed \bullet Software compatible with Windows NT/2000/ XP/7/8 for networking, static and dynamic supplied with protection key \bullet basic graphic interface able to build in text and graphic in all the marking area \bullet create logos \bullet capable of downloading MFF fonts and DXF vector files \bullet alarm control.

MARCA™ V 5.3 SOFTWARE FOR HIGH RESOLUTION & STATIC/DYNAMIC APPLICATIONS VIA ETHERNET TCP/IP [6]

Easily installed • Software compatible with Windows NT/2000/XP/7/8 for high resolution & MarcaTM software supplied with protection key • controls laser systems via Ethernet static/dynamic applications TCP/IP • powerful WYSWYG design editor in all the marking area • zoom • bar codes • 2D barcodes • MFF font editor • character filling • capable of downloading BMP, JPG, GIF, TIF, PCX and other graphic files • capable of downloading DXF vector files with multiple import options • ODBC (database) features • true type text fonts • messages activated by hourly, daily or monthly changes • networking capabilities of several systems via Ethernet TCP/IP • Unicode Enable. Allows UHS.







K-1000 LASERS

ARE FAST

They are high powered and equipped with ultra high speed galvos enabling them to match the speeds of the fastest production lines.



K-1000 LASERS

ARE POWERFUL

They can mark large complex graphics and deliver quality laser marks even on difficult substrates and when time is limited.



K-1000 LASERS

ARE RELIABLE

The KIP variant has a remote IP65 head enabling it to operate reliably at the level of the production line in the damp conditions of a hose down environment.



CONSISTENT LONG TERM

HIGH QUALITY PRINTING

There are no printheads which need cleaning or which degrade over time and need replacing.



DELIVER A

PERMANENT

CODE

Ink based alternatives may be scratched or rubbed off the substrate.



BETTER PRINTING

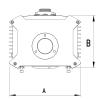
IN DUSTY ENVIRONMENTS

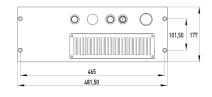
Laser coders are not disadvantaged by dust whereas a thermal transfer printhead will need a regular cleaning and an inkjet printhead will need regular flushing to prevent blockages.



K-1000 PLUS UHS





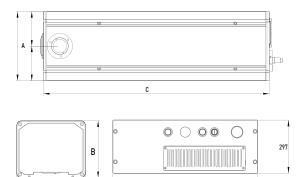


SYSTEM TYPE				K-1010 PLUS	UHS	K-1030 PLUS UHS	K-1060	PLUS UHS	K-1080 PLUS	s uhs		
POWER	10W		30W		60W	80W						
WAVELENGH					ı	9.3µm /10.2	0.2µm / 10.6µm					
MAINS SUPPLY	125V / 230 50/60 Hz (1 Fase + N) 3		125V / 230V 50/60 Hz [1 Fase + N] 660VA	50	V / 230V J/60 Hz + N) 1600VA	125V / 23 50/60 H: (1 Fase + N) 1	Z					
	Split H	lead (optional	.)	108x106,5x114 mm								
DIMENSIONS	Tub	e (A x B x C)		190x141x621	mm	235x193x656 mm		235x193x774 mm				
	-		-	482	2x177x454 mm	(19"x4ux454 mn	n)					
WEIGHT	Net: 19kç Gross: 24k	kg .	Net: 32kg Gross: 40kg		Gross	71kg : 86kg						
SYSTEM	Laser source, control and power electronics, CPU and scanners built into the laser tube. Laser source, scanners, control electro and CPU built into the laser tube. Power electronics built into the control											
	Working	Focal	Marking			Beam diameter N	иodels Pi	LUS UHS				
	distance (mm)	length (mm)	area (mm x mm)	(µm)								
	85	95	60x60	<256µm -0								
	115	125	75x75	<337μm -0								
ODTICS	150	160	100x100	<432µm -S								
OPTICS	190	200	100x100	<540µm -0								
	230	240	150x150	<648µm -0								
	310	320	200x200	<864µm -0								
	400	410	250x250	<1107µm -0								
	µm: microns	s S: Stand	dard 0: Opti	onal			Г					
USER INTERFACE	Hand heTouch soFull graph	ld terminal w creen with Sc phics interfac		software. re. larca™ software,		and Ethernet cable (Tone)						
	- John Mark		00 – 9,3 μm	551111415,115	op ney ar	KS2-1000 – 10,2 μm	7,.	K-1	000 – 10,6 µm			
MARKING HEAD	CO2 sealed R.F. technol Wavelength:	laser tube	,,o p		CO2 sealed laser tube R.F. technology Wavelength: 10,2 microns				CO2 sealed laser tube R.F. technology Wavelength: 10,6 microns			
ACCESSORIES			Beam	Beam pointer- Shaft encoder kit - Mounting support - Photocell kit								
ENVIROMENTAL CONDITIONS		5% non-cond	PF) external ten ensation	nperature								
	PAPE	PAPER LABEL		Max. Speed line (m/min)		Cadence (mn		Scanners speed		n/s)		
K 1010 DITICTILIC		/ 8 Charact.		140	156	122	120	150		200		
K-1010 PLUS UHS (10.6 µm) SPEED		/ 8 Charact.		80	80	122	122	150		200		
(10.0 pm) 31 EED		/ 8 Charact.		53	54	118	120	150		200		
Lens:100x100		/ 8 Charact. PET		40	40	118	118	150		200		
Resolution:10 Inertia K: 60 Max. Inertia: 80				ax. Speed line (m/min) 116 106		Cadence (mm) 127 <i>125</i>		Scanners speed (mr				
		/ 8 Charact.		58	51	118	116	100		:00 :00		
		/ 8 Charact.		38	35	116	117	100		:00		
Font size: 3mm		/ 8 Charact.		29	25	116	110	100		:00		
Cristal Font type: Matrix:7x5 Speed:60000	PAINTED	ALUMINIUM	M	ax. Speed line (m/min) Cade			ce (mm) Scanners spee			n/s)		
Microstep:50	1 Line	/ 8 Charact.		87	78	117	119	70) 60	500		
Delay: 40		/ 8 Charact.		44	40	120	118	70		600		
		/ 8 Charact.		28	26	117	120	701		500		
	4 Line	/ 8 Charact.	1	20	19	109	113	70	J 6	00		

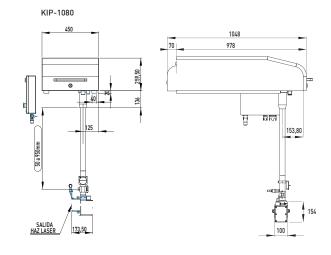
 $\begin{array}{c} \mathsf{Normal} \to \mathsf{Newpal} \, \mathsf{Font} \\ \mathit{Italic} \to \mathsf{Crystal} \, \mathsf{Font} \end{array}$

KIP-1000 PLUS IP65

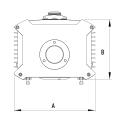
KIP-1010/30



543,5



SYSTEM TYPE			KIP-1010 SP net IP65	KIP-1010 PLUS IP65	KIP-1010 PLUS UHS IP69	SP net	KIP-1030 PLUS IP65	KIP-1030 PLUS UHS IP65	KIP-1080 PLUS UHS IP65				
POWER					10W	ı		30W	80W				
WAVELENGH							9.3µm /10.2	9.3µm /10.2 µm / 10.6 µm					
MAINS SUPPLY		(1	125V / 230V 50/60 Hz Fase + N) 300	VA	(1	125V / 230V 50/60 Hz Fase + N) 600	125V / 23 V 50/60 Hz (1 Fase + N) 1900VA						
		Tube (A x E	3 x C)	216	.5x164 x621.5	mm	2	60x193x656 m	-				
DIMENSIONS Rack Split Head					-			-	450x279.5x1048 mm				
					-			-	154x100x174 mm				
WEIGHT	•				Net: 14kg Gross: 18kg			Net: 26kg Gross: 32kg		Net: 80 kg Gross:95kg			
SYSTEM				Laser source laser tube.	e, control and	power elec	ctronics, CPU an	d scanners bui	Laser source, control and power electronics and CPU built into the				
				without beam expander	be	ith am Inder	without beam expander	wi bea expa	am	rack. Scanners built into the external head. External control panel.			
	Working distance (mm)	Focal length (mm)	Marking area (mmxmm)	Beam diameter MODELS SP net (µm)			Beam diameter MODELS PLUS (μm)			Beam diameter MODELS PLUS UHS (μm)			
	85	95	60x60	<385µm -S			<192µm -0			<256µm -0			
	115	125	75x75	<	<506μm –0		<253µm -0			<337µm -S			
OPTICS	190	200	100x100	<	<810μm –0		<405μm -S			<432µm -0			
	230	240	150x150	<972µm -0			<486µm -0			<540µm -0			
	310	320	200x200	<	1296µm -0		<648µm -0			<648µm -0			
	400	410	250x250	<1660µm -0			<830	μm -0		<864µm -0			
	μm: microns S: Standard 0: Optional												
SOFTWARE	 ScanLinux V5.2.7 and higher. Software Marca V5.6.9.a and higher. Internal bar code. Software Marca Lite. 												
USER INTERFACE	■ Hand he	Hand held terminal / Touch screen / PC											
CONTROL BY	 Hand held terminal with ScanLinux software. Touch screen with ScanLinux software. Full graphics interface: includes Marca software™, dongle and Ethernet cable (TCP / IP). Marca Lite software: includes Marca™ software, dongle and Ethernet cable (TCP / IP) 												
ACCESSORIES	Beam poi	Beam pointer– Shaft encoder kit – Mounting support – Photocell kit											
ENVIROMENTAL CONDITIONS	10°C (50°F) to 40°C (104 °F) external temperature Humidity <95% non-condensation No vibrations												



SYSTEM TYPE				K-1010 SP net	K-	-1010 PLUS	K-1030 SI	Pnet	K-1030 F	PLUS			
POWER		1		30W									
WAVELENGH						9.3µm /10	0.2µm /10.6µm						
	125V / 230	V 50/60) Hz		125V / 230V 50/60 Hz								
MAINS SUPPLY	(1 Fase -		(1 Fase + N) 660VA										
DIMENSIONS -	Split H	al)	108x106,5x114 mm										
DIMENSIONS		190x141	x621 m	m		235x193x656 mm							
WEIGHT				Net: 19kg	Gross:	24kg	۸	let: 32kg Gro	oss: 40kg				
SYSTEM				Laser source, control and power electronics, CPU and scanners buil:						ser tube			
	Working	Focal	Marking				T _						
	distance	length	area	Beam diamet		IELS SP	Beam	n diameter M		.05			
	(mm)	(mm)	(mmxmm)	ιļ	ım)			(µm)					
	85	95	60x60	<385µm -S				<192µm -0					
	115	125	75x75	<506μm -0				<253µm −0					
OPTICS	150	160	100x100	<810µm -0				<405μm -S					
	190	200	100x100	<972µm -0				<486µm -0					
	230	240	150x150	<129		<648µm -0							
	310	320	200x200	<166		<830µm -0							
	400	410	250x250	250x250 <385μm –S <192									
	μm: micror	µm: microns S: Standard O: Optional											
SOFTWARE	InternaSoftwa	Software Marca Lite.											
USER INTERFACE			ıl / Touch scree	,									
CONTROL BY	Touch sFull gra	Full graphics interface: it includes Marca™ software, Hasp key and Ethernet cable (TCP/IP).											
		KS-1000 - 1	7,3 µm	KS2-		KS-1000 – 10,6 μm							
MARKING HEAD	CO ₂ sealed R.F. techno Wavelengtl		ns	CO ₂ sealed lase R.F. technology Wavelength: 10	R.F. tech	CO ₂ sealed laser tube R.F. technology Wavelength: 10,6 microns							
ACCESSORIES		Beam pointer- Shaft encoder kit - Mounting support - Photocell kit											
ENVIROMENTAL CONDITIONS	Humidity < No vibratio	95% non-co ns	04 °F) external tondensation	· 		I							
				Speed line (m/min)			ce (mm)		Scanners speed (mr				
K-1010 PLUS SHS			575	290		245000	124000	20000	$-\!$	65			
(10.6 μm) SPEED	2 Line / 8		310	140		130000	60000	20000	$-\!$	65			
1 100 100	3 Line / 8		190	95		80000	40700	20000	$-\!$	65			
Lens:100x100 Resolution:10	4 Line / 8		145	70		60000	30000	20000		65			
Inertia K: 30	PE			Speed line(m/min)		ļ	ce (mm)						
Max. Inertia: 40	1 Line / 8		425	265		182000	113500	10000	$-\!$	75			
F	2 Line / 8		215	130		92100	55700	10000	$-\!$	75			
Font size: 3mm	3 Line / 8		145	85		60000	36400	10000	\perp	75			
Cristal Font type:		4 Line / 8 Charact. 105		65	45000	27800	10000 75						
Matrix:7x5	GLA			·			ce (mm)		Scanners speed (mm/s)				
Speed:60000	1 Line / 8		195	175		83500	75000	2000	\bot	120			
Microstep:40 Delay: 20	2 Line / 8		105	85		45000	36400	2000	$-\!$	120			
Delay: 20	3 Line / 8		65	55		27800	23500	2000	$-\!$	120			
	4 Line / 8	Charact.	50	45		21400	19200	2000		120			

Normal → Newpal Font *Italic* → Crystal Font

K-1000 by MACSA Fast. Powerful. Reliable.



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