

For the attention of:

Datalogic Automation partners

Malmö, November 2007

Subject: **DS4800 Product Announcement**

We have the pleasure to announce the availability of the new compact laser scanner, named DS4800, extending the current offer for the manufacturing market.

DS4800 is an industrial laser scanner, combining flexibility and compactness to satisfy the main application needs of the manufacturing plants.

The main features are:

- Better performance, especially on low-contrast barcodes
- Single high-performance optics with adjustable focus
- Innovative X-PRESS[™] Human Machine Interface
- New ID-NET[™] High Speed Bus
- Standardized Genius[™] Software Configuration tool



The DS4800 main goals are:

- reduce the number of models and rationalize the mid end of laser offer.
- increase the scanner performance in severe applications (temperature, ambient light, vibrations)
- keep the same footprint as the DS4600A

This product line will also represent a big opportunity for Datalogic's partners. In fact, its modularity will help their stock management and the easy configuration will automatically improve usability and flexibility among several application needs.

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Solution Overview

HUGE FLEXIBILITY

Through the **smart focus adjustment** DS4800 optimizes the performances based on the reading distance. This extends the reading area and improves the overall read rate.

EXCELLENT PERFORMANCE

Thanks to **DIGITECH™** technology, DS4800 provides excellent reading performance on demanding barcodes.

By means of optimized **reading recipes**, DS4800 improves reading rate on low contrast barcodes while granting excellent performance at high skew angles. Additionally, **ACR4™ reconstruction technology** increases the max tilt angle and decoding rate of damaged barcodes.

EASE OF USE

The intuitive **X-PRESS™** Human Machine Interface makes installation and maintenance easier than ever thanks to a five LED bar-graph and the multi-function key providing immediate access to relevant functions:

Test Mode (for bar code verification), AutoLearn (for automatic code setting) and AutoSetup (for self optimization of reading performance).

DS4800 is easily programmed through the multi-language **Genius™** software tool. Thanks to the wizard approach and graphic add-ons, the scanner configuration is rapidly accomplished.

CONNECTIVITY

DS4800 is equipped with the embedded high-speed **ID-NET™** communication interface. ID-NET™ allows efficient data collection without the need of external multiplexer providing overall cost reduction and simplifying network wiring.

Extended fieldbus connectivity is available through a **complete range of modular connection boxes**.

INDUSTRIAL STRENGTH

With its rugged construction, IP65 protection class, **50°C** max operating temperature and **total ambient light immunity**, DS4800 is suitable for all main industrial applications.

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Product Description (Features & Benefits)

Features	Benefits			
Reading Performance				
+ Smart focus adjustment	Single DS4800 model to be standardized in the plant			
REMOVED	Huge flexibility in reading area selection			
FAR	Optimized performances at any reading distance			
+ DIGITECH™ technology	Improved reading rate on low contrast barcodes			
Aut Alamana and annua	Excellent reading performance at high skew angles			
DIGITECH™	Reading recipes for easy optimization based on specific application needs			
+ High-performance optical system	Complete ambient light immunity thanks to high-frequency laser light modulation			
+	Extended reading area by a single optics platform.			

Decoding Performance		
+ ACR4™ Reconstruction	Extension of Tilt Angle reading	
Technology	Increased Read Rate on Difficult codes	
	Outstanding decoding capability on most common 1D symbologies, including add-on.	
+ Scanning Speed up to 1000 scan/s	Excellent performance on high speed applications	
+ Statistics and diagnostic	Preventive diagnostic on motor speed	
	Real time notification of possible failures	
	Statistic counters for easy monitoring of performances	

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Installation, Configuration and Set-Up			
+ X-PRESS™ Human Machine	Ease of Installation		
Interface	Ease of Maintenance		
Press Interface	Common look and feel as 2KN and Matrix400™ series		
interrace	Common Set-Up process with 2KN and Matrix400™ series		
+ Genius ™ Configuration SW	Easy scanner setup through intuitive software tool		
GERIUS YN Venture 1.07 Western 1.07 William of the Company of t	Multi-language support for simplified use		
	Rapid scanner configuration thanks to wizard approach and graphic add-ons		
+ Smart Fixing Bracket	Higher Flexibility of Installation		
Sacw	Reduce overall installation time		
PRETA PRETA	Easy Replacement with Reduced downtime in case of failure		

TIPESS Interface Human Machine Interface			
+ Multilanguage Display	Immediate feedback about scanner status, function selection and diagnostic information		
	Multi-language support (both European and Oriental)		
+ Multifunction Push Button	Immediate access to the relevant functions like Test Mode (for bar code verification), AutoLearn (for automatic code setting) and AutoSetup (for self optimization of reading performance).		
+ AutoLearn (Automatic Code	Easy and quick scanner programming		
Setting)	Reduce overall setup time		
+ AutoSetup (Optimization of Reading Performance)	No technical skills required		
reading renormance)	No laptop necessary		
+ Performance Bar graph	Diagnostics at a glance thanks to bar graph activation		
	Immediate feedback on code reading performance		
+ 5 Diagnostic leds	Immediate feedbacks on standard operating modes (Power ON, Good Read, Phase activation, COM activation, NO Read or Partial Read)		
	Provides diagnostics indication for easy and effective troubleshooting		
+ 1 Diagnostics led near scanner cable	Provides immediate feedbacks about power supply presence		

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Connectivity			
+ ID-NET™: High Speed Network	Built-in interface dedicated to high-speed scanner interconnection		
ID NET	Fastest and most efficient data collection on the market		
•	No need of an external multiplexer device		
	Simple system wiring when scanner network is required		
	Overall system cost reduction		
+ New generation of Connection	Modular connection boxes for maximum flexibility		
Boxes (CBX Series)	Several fieldbus options to satisfy any connectivity needs		
C III	Easy replacement thanks to dedicated backup module		
CONCOC CONTROL	Very low cost of ownership		

Mechanical			
+ IP65 (NEMA 4) protection class	Full dust and water protection for every harsh industrial environment		
+ Operating temperature 0-50°C (32-122°F)	Ready to use in high temperature environment		
+ Rugged full metal construction	Ideal product for industrial applications		
	Suitable for robotic applications		

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Target Applications

The DS4800 *industrial* scanner provides huge *flexibility and compactness satisfying* all main identification needs of the manufacturing plants.



Automated warehousing

- Medium/small conveyor sorting
- Reading on pallets
- Picking systems
- Receiving / Incoming materials

Automated shop floor

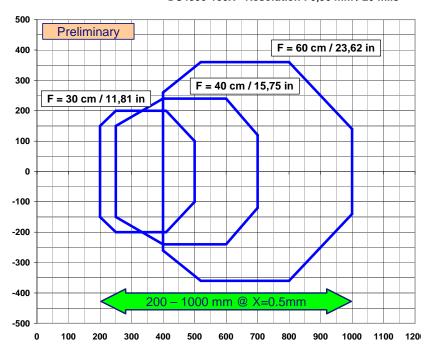
- Items and parts tracking
- Process control
- Overall production traceability
- Packaging and compliance

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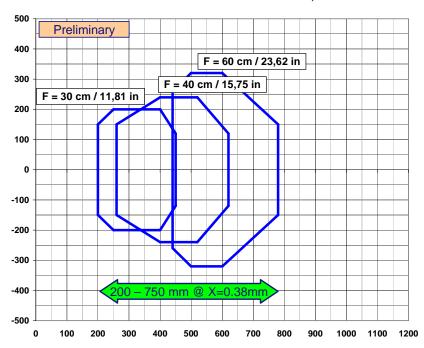


Reading Performance

DS4800-100X - Resolution: 0,50 mm / 20 mils



DS4800-100X - Resolution: 0,38 mm / 15 mils



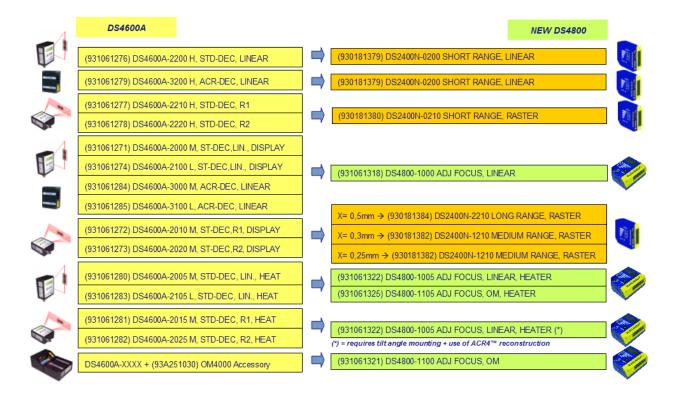
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Compatibility with DS4600A

Reading diagrams

DS4800 grants an equal/wider reading area respect to the DS4600A, in most of the applications. Based on the model rationalization achieved, the following cross-over table is recommended:



Mechanics

DS4800 keeps the same footprint of DS4600A. Fixing positions are unchanged.

Pinout and connector

DS4800 is electrically compatible with DS4600A, with the following changes:

- → Gender type of 25pin connector of DS4800 is male
- → New ID-NET[™] communication channel has been added
- → Third input (INPUT2) has been removed

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Pinout comparison is depicted in following pictures:



DS4600A PINOUT



DS4800 PINOUT

Pin	Name	Function	Function		
13	VS	Power supply i	nput voltage +		
25	GND	Power supply it	nput voltage -		
1	CHASSIS	Chassis Groun	d		
9	VS	External Trigge	er supply voltage +		
18	EXT TRIG+	External Trigge	¥Γ+	Ī	
19	EXT TRIG-	External Trigge	er -		
6	IN 1+	Input 1 +			
10	IN 1-	Input 1 -		l	
14	IN2+	Input 2 +			
15	IN2	Input 2 -		.,	
8	OUT1+	Output 1 +		G	(000000000000
22	OUT1-	Output 1 -		l ĭŏ	0000000000000
11	OUT2+	Output 2 +		9	85 U
12	OUT2-	Output 2 -	Output 2 -		25-pin female connector
20	RXAUX	Auxiliary RS23	Auxiliary RS232		25-pin ternale connector
21	TXAUX	Auxiliary RS23		Į.	
23	SGND Aux		Auxiliary interface	l	
24	GND	Power Supply	Voltage -		
16	Reserved				
17	Reserved				
Pin	R	\$232	RS485 Full-Duplex		RS485 Half-Duplex
2	TX232		TX485+		RTX485+
3	RX232		RX485+		
4	RTS232		TX485-		RTX485-
5	CTS232		RX485-		
0					

25-pin D-sub male connector pinout				
Pin	Name	Function		
13, (9)	VS	Power supply i	input voltage +	
25, 7	GND	Power supply i	input voltage -	
1	CHASSIS	Cable shield co	onnected to chassis	
18	ETA	External Trigge	er A (polarity insensitiv	e)
19	ETB	External Trigge	er B (polarity insensitiv	e)
6	I2A	Input 2 A (pola	rity insensitive)	
10	I2B	Input 2 B (pola	rity insensitive)	
8	01+	Output 1 +		
22	01-	Output 1 -		
11	O2+	Output 2 +		
12	O2-	Output 2 -		
20	RXA	Auxiliary RS23	32 RX	
21	TXA	Auxiliary RS23	32 TX	
23	ID+	ID-NET™ netw	vork +	
24	ID-	ID-NET™ network -		
14, 15, 16, 17	NC	Not Connected	i	
Pin	Name	RS232	RS485 Full-Duplex	RS485 Half-Duplex
2		TX 232	TX 485+	RTX 485+
3	MAIN INTERFACE	RX 232	*RX 485+	
4	(SW SELECTABLE)	RTS 232	TX 485-	RTX 485-
5		CTS 232	*RX 485-	

Software

The main software features of DS4600A are still available in DS4800. Moreover, scanner firmware includes several improvements from 2000N and scanner 6000/8000 series, such as diagnostics, statistic counters and flexible data format programming.

Genius[™] configuration tool replaces the WinHost[™] software. This goes in the direction to have a multilanguage interface and to get a unified setup tool along the USS product offer. Genius[™] and ID-NET[™] interface allow simple programming of the whole cluster of readers. All operations (scanner configuration, software upgrade, etc.) can be accomplished through the master on each slave transparently.

Accordingly, scanner programming through Escape Sequences will be substituted by Host Mode Programming commands already available for the 6000/8000 families.

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Order Information and availability

Starting from *now* the order processing department will accept your orders, with first delivery date from *February* 1st, 2008.

Models

Order No.	Description	Ready for sale
931061318	DS4800-1000 ADJ FOCUS, LINEAR	Now
931061321	DS4800-1100 ADJ FOCUS, OM	Available Q2/2008
931061322	DS4800-1005 ADJ FOCUS, LINEAR, HEATER	Available Q2/2008
931061325	DS4800-1105 ADJ FOCUS, OM, HEATER	Available Q2/2008

Accessories

Order No.	Description	Ready for sale
93ACC1837	BK-4000 L-SHAPE BRACKET (5 PCS)	Now
93ACC1838	BK-4001 U-SHAPE BRACKET (5 PCS)	Now
93ACC1785	GFC-40 90 DEGREES MIRROR DS4800	Available Q2/2008

Connection Boxes

Order No.	Description	Note
93A301067	CBX100 CONNECTION BOX COMPACT	
93A301069	CBX100LT CONN. BOX COMPACT LOW TEMP.	
93A301068	CBX500 CONNECTION BOX MODULAR	
93ACC1808	BM100 BACKUP MODULE	
93ACC1809	BM150 DISPLAY MODULE	
93ACC1810	BM300 PROFIBUS MODULE	Dedicated announcement will
93ACC1811	BM310 PROFIBUS IP65 MODULE	be sent in next few days
93ACC1812	BM500 ETHERNET MODULE	including product availability
93ACC1813	BM510 ETHERNET IP65 MODULE	
93ACC1840	BM520 ETHERNET IP54 MODULE	
93ACC1814	BM400 DEVICENET IP65 MODULE	
93ACC1821	BA100 DIN RAIL ADAPTERS	
93ACC1822	BA200 BOSCH ADAPTERS	

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Sales Conditions

Price list: Please refer to the attached Corporate End User Price List in EUR.

General Conditions: Standard conditions for the USS product range.

Marketing Materials

Internet product page: http://www.automation.datalogic.com/ds4800

We take this opportunity to send you our best regards.

DATALOGIC AUTOMATION AB

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