

#### **APPLICATIONS**

- OEM integration in automatic machines
- · Chemical and biomedical analysis machines
- · Document handling machines
- Print & Apply systems
- Packaging machinesATL (Automated Tape Library)

## **ADVANTAGES**

- Excellent performance and reliability on all main bar code symbologies thanks to high scanning speed and advanced optic features.
- · High reading performance on damaged or poorly printed bar codes
- Excellent performance on high resolution codes with reduced minimum reading distance

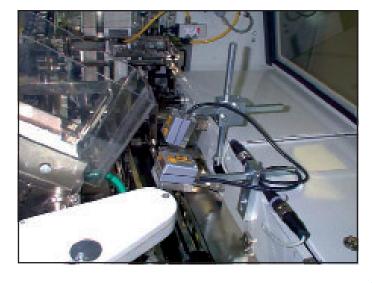


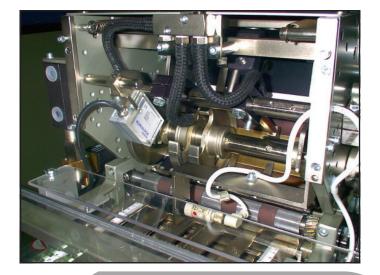
#### HIGHLIGHTS

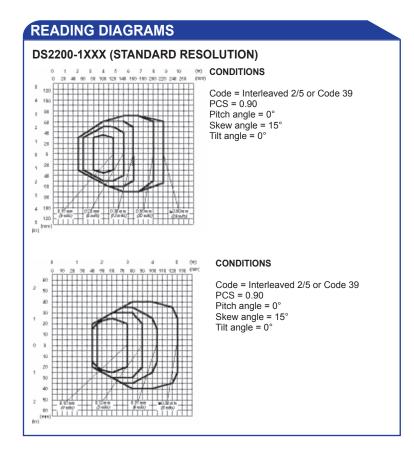
- Extremely compact dimensions
- Very high density code reading (up to 0.076 mm / 3mils)
- Scanning speed up to 500 scans/s
- Dual serial interface
- Light weight (150 g / 5.29 oz. without cable)
- IP65 (NEMA 4) rugged industrial housing

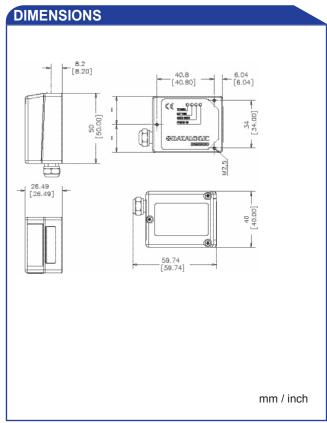
#### **GENERAL DESCRIPTION**

DS2200 is designed for OEM and other applications requiring easy integration, high reliability and cost effectiveness. Datalogic Automation's advanced technology and experience in miniaturized laser components enables development of a compact industrial laser scanner without compromising reading performance and industrial quality standards. In conformity with the needs of automatic machinery, DS2200 features very compact dimensions, light weight and IP65 rugged industrial housing.



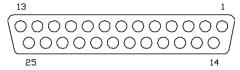






## **ELECTRICAL CONNECTIONS**

All DS2200 models are equipped with a cable terminated with a 25-pin female D-sub connector for connection with the power supply and input/output signals.



25-pin Female D-sub Connector

25-PIN D-SUB CONNECTOR PINOUT				
Pin	Name	Function		
9,13	VS	Power supply input voltage +		
25	GND	Power supply input voltage -		
1	CHASSIS	Chassis Ground		
19	EXT TRIG-	External Trigger -		
10,12,22	I/O REF	I/O reference		
8	OUT1 +	Output 1 +		
11	OUT2 +	Output 2 +		
2	TXAUX	TX RS232 Aux. Interface		
3	RXAUX	RX RS232 Aux. Interface		
4	RTX485-	RTX- RS485 Main Interface		
5	RTX485+	RTX+ RS485 Main Interface		
7	SGND	Signal Ground		
16	NGND	Internal Use - for Service only		
17	FPE	Internal Use - for Service only		
6,14,15,18,20,21,23,24	NC	Not Connected		



## MODELS AND ACCESSORIES

MODELS		
Order No.	Description	
930161000	DS2200-1100 STD RESOLUTION, LINEAR, RS485+RS232, 5V	
930161030	DS2200-1110 STD RESOLUTION, R1, RS485+RS232, 5V	
930161040	DS2200-2100 HIGH RESOLUTION, LINEAR, RS485+RS232, 5V	
930161050	DS2200-2110 HIGH RESOLUTION, R1, RS485+RS232, 5V	

ACCESSORIES		
Order No.	Description	
93A201030	GFC-2200 90° READING MIRROR	
93ACC1040	DC5-2200 DC CONVERTER 4-30 VDC TO 5 VDC	

# TECHNICAL DATA

DIMENSIONS	50 x 40 x 28 mm (1.97 x 1.57 x 1.10 in)				
WEIGHT	150 g (5.29 oz.)				
CASE MATERIAL	Die-ca:	st Zinc			
OPERATING TEMPERATURE	0 to 40 °C (32 to 104 °F)				
STORAGE TEMPERATURE	-20 to 70 °C (-4 to 158 °F)				
HUMIDITY	90% non condensing				
VIBRATION RESISTANCE	IEC 68-2-6 test FC 1.5mm; 10 to 55 Hz; 2 hours on each axis				
SHOCK RESISTANCE	IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis				
PROTECTION CLASS	IP65				
LIGHT SOURCE	Visible laser diode (630 to 680 nm)				
COANINIO ODEED	500 scans/sec				
SCANNING SPEED —	DS2200-11x0	DS2200-21x0			
RESOLUTION	Up to 0.15 mm (6 mils)	Up to 0.076 mm (3 mils)			
READING DISTANCE	Up to 220 mm on 0.60 mm (24 mils) codes	Up to 125mm on 0.20 mm (8 mils) codes			
DEPTH OF FIELD	Up to 170 mm on 0.60 mm (24 mils) codes	Up to 85 mm on 0.20 mm (8 mils) codes			
APERTURE ANGLE	52 degrees	62 degrees			
RASTER APERTURE	15 mm (0.6 in) at 220 mm (8.7 in) for R1 Raster models				
READABLE CODES	Code 2/5, Code39, Code93, Code128, EAN/UPC, EAN128, Codabar, Pharmacode				
MULTILABEL READING	Up to 6 different symbologies during the same reading phase				
COMMUNICATION INTERFACES	Main port RS485 Half Duplex up to 115.2 Kbit/s				
COMMUNICATION INTERFACES	Auxiliary port RS232 up to 115.2 kbps				
DIGITAL INPUTS	External Trigger (NPN only)				
DIGITAL OUTPUTS	Two SW programmable, event driven				
DEVICE DOCODANAMINO	Windows™ based SW (WinHost™) via serial link				
DEVICE PROGRAMMING —	Serial Host Mode Programming sequences				
OPERATING MODES	'On-line', 'Serial On-line', 'Automatic', 'Test', 'Verifier'				
LED INDICATORS	Power On, External Trigger, Good Read, TX Data				
LASER CLASSIFICATION	IEC 825-1 Class2; CDRH Class II				
LASER CONTROL	Safety system to turn laser off in cases of motor slowdown or failure				
POWER SUPPLY	5 VDC (4 to 30 VDC with converter)				
POWER CONSUMPTION	2 W max				