

Honeywell - Measurex

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INDUSTRY : PAPER
PROJECT NUMBER: 110448
ORDER NUMBER: 20018809
SOF NUMBER: 10224-01
SYSTEM NUMBER: 10223

CUSTOMER : **St. Marys Paper Ltd.**

REVISION NUMBER: FINAL
CHANGE ORDER NO:

LOCATION : Sault St. Marie, Ontario, Canada

PREVIOUS (OTHER) SYSTEM(S) AT THE
SAME SITE:

PRODUCT: Supercalendar

MACHINE #: SC3

SYSTEM DESCRIPTION: Da Vinci QCS
TYP-(Stations) - Scanners
S800 - () - 1

DISTRIBUTION:

- Montreal

Software build:	Local
Installation Kit:	Required
Manuals:	Required
Spares Kit:	Not Required

REGIONAL SALES MANAGER

- Jacques Dupuis

AREA SALES MANAGER

- Tony Marra

MANAGER SERVICE OPERATIONS

- Dave Armstrong

INSTALLATION MANAGER

- Gaston Verreault

FIELD TECHNICAL SUPERVISOR

- Charles Montgomery

PROJECT LEAD SPECIALIST

- Danny Campagna

PROJECT MANAGER

- Zohar Beneliezer

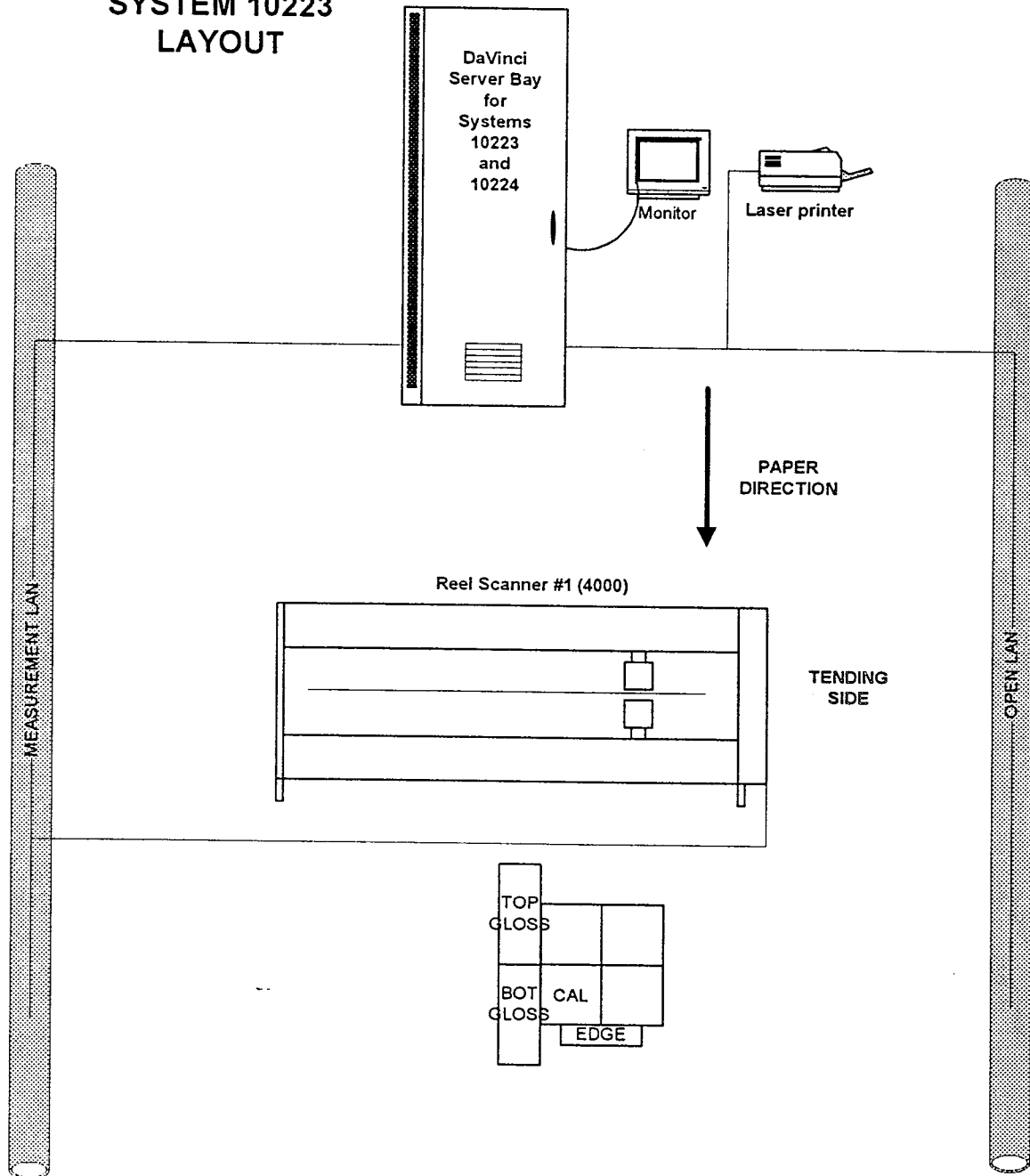
Completed by : Mary O'Donnell

Date : November 16, 2001

FINAL



SYSTEM 10223
LAYOUT



SCANNER / PAPER MACHINE DATAGENERAL PAPER MACHINE INFORMATION

Orientation for completing this section is while standing in front of reel looking upstream (toward headbox or unwind)

Tending Side of Machine: Right

Measurement Bin #1: Right

Emergency offsheet & Standardize side : Right

Slice position of Rope : N/A

Does Rope restrict movement of Heads N/A

Number of Low Resolution Profile Bins 64

Number of High Resolution Profile Bins 960

SCANNER DIMENSIONS

		#1 Reel	
Max Web	(C)	186	Inches
Cable End	(J)	59	Inches
Distant End	(K)	46	Inches
Total	(T)	291	Inches
High resolution bin width at scanner		5.0	mm
Head Gap		0.4	Inches
Sheet Angle :		21	Degrees

Direction of Paper flow as view from
tending Side of Machine:



Water Shower Upstream of Scanner: No

Kerosine Used at Scanner : (Yes/No)

Cabling Side of Scanner is on the
Machine Drive (Back Side)
Machine Tending (Front Side) Yes

Maximum Ambient Temperature: 40° C

PRODUCT INFORMATIONGRADE INFORMATIONPRODUCT:SCANNER#1
Reel

Basis Weight Range	_____	GSM
Coat Weight (If Coater)	_____	
Moisture Range	_____	%
Nominal Moisture	_____	%
Caliper Range	<u>1.9-2.2</u>	Mils
* Ash Range	_____	%
Opacity Range	_____	%
Smoothness	_____	
Machine Speed	_____	M/Min
Max # Paper Grades	_____	
Max # Color Shades	_____	
Scanner Power	<u>220vac / 60hz</u>	
General Power	<u>115vac / 60hz</u>	

Product Constituents which influence gauge selection:

_____	Carbon/Recycle	(Yes/No)
_____	Carbon Black	(Yes/No)
_____	Broke Used	(Yes/No)
_____	Inorganic Dyes	(Yes/No)

Other important factors:

_____	Molecular Bound Water Present	(Yes/No)
_____	Water Repellent Used	(Yes/No)
_____	If yes, % Moisture added	

Precision Measurement Processor (PMP) for Reel Scanner

REEL SCANNER, 8-SLOT PCI/ISA BACKPLANE (LEFT TO RIGHT)

Right

Slot #8 Spare
Slot #7 Analog I/O Board
Slot #6 CPU
Slot #5 Network Interface Board
Slot #4 Spare (reserved Serial Communication Interface Board)
Slot #3 PCDAQ #1

Port#	Sensor	Location
1	Surface*	Lower
2	NCCAL*	Upper
3	Surface*	Upper
4	Gloss	Upper
5	SSIR*	Upper
6	Gloss	Lower
7	SSIR*	Lower
8	Formation*	Upper

Slot #2 Digital I/O Board
Slot #1 Frame Controller PCB

Left

Note: *Not Used

Precision Measurement Processor (PMP) for Reel Scanner

REEL SCANNER, FRAME CONTROLLER HEX ADDRESS 300

*Jog Set
Strobes*

C00AI00	VMon Analog Ground
C00AI01	VMon 2.5
C00AI02	VMon +5
C00AI03	VMon +15
C00AI04	VMon -15
C00AI05	VMon +24
C00AI06	VMon Motor Control
C00AI07	VMon Aux Out
C00AI08	VMon Board Temp
C00AI09	VMon -5
C00AI10	
C00AI11	
C00AI12	
C00AI13	
C00AI14	
C00AI15	

Analog Inputs

*Job Set
Strobes*

C00DI00
C00DI01
C00DI02
C00DI03
C00DI04
C00DI05
C00DI06
C00DI07
C00DI08
C00DI09
C00DI10
C00DI11
C00DI12
C00DI13
C00DI14
C00DI15
C00DI16

Digital Inputs

Reverse Limit Switch
Forward Limit Switch
Preset Switch
Frame In Auto
Scan Push Button
Offsheet Push Button
Reference Push Button
Sample Push Button
Motor Fault
Emergency Stop
Lump Detector
End of Roll
Sheet Break
Scanner Enabled
Water Level OK
Water Flow OK
Preset Latched

Analog Outputs

C00AO00	Motor Speed
C00AO01	
C00AO02	
C00AO03	
C00AO04	
C00AO05	
C00AO06	
C00AO07	
C00AO08	
C00AO09	
C00AO10	
C00AO11	
C00AO12	
C00AO13	
C00AO14	
C00AO15	

Digital Outputs

C00DO00	Sample & Reference Light
C00DO01	Motor Powered
C00DO02	Motor Forward
C00DO03	Contact Output Enable Strobe for DIO
C00DO04	Offsheet Light
C00DO05	Scan Light
C00DO06	Scanner is Parked
C00DO07	
C00DO08	
C00DO09	
C00DO10	
C00DO11	
C00DO12	
C00DO13	
C00DO14	
C00DO15	
C00DO16	Watch Dog Frame Interface
C00DO17	Watch Dog Enable Frame Interface

Precision Measurement Processor (PMP) for Reel Scanner**DATA ACQUISITION TERMINATIONS - REEL****Analog**

1	Bw Signal (not used)
2	BW Source Temp(not used)
3	BW Receiver Temp(not used)
4	Moisture A (not used)
5	Moisture B (not used)
6	Moisture C(not used)
7	Caliper
8	
9	
10	Z Signal (not used)
11	Air Gap Temp (Source) (not used)
12	Air Gap Temp (Receiver) (not used)
13	Head Temp (Upper) (not used)
14	Head Temp (Lower) (not used)
15	
16	
17	
18	
19	
20	
21	Upper Head Humidity (not used)
22	Lower Head Humidity (not used)
23	Upper Air Curtain (not used)
24	Lower Air Curtain (not used)
25	X Axis (not used)
26	
27	
28	
29	
30	
31	
32	Y Axis (not used)

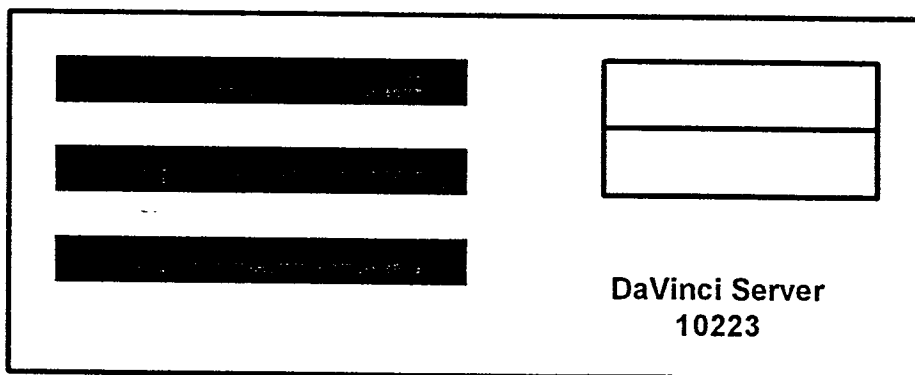
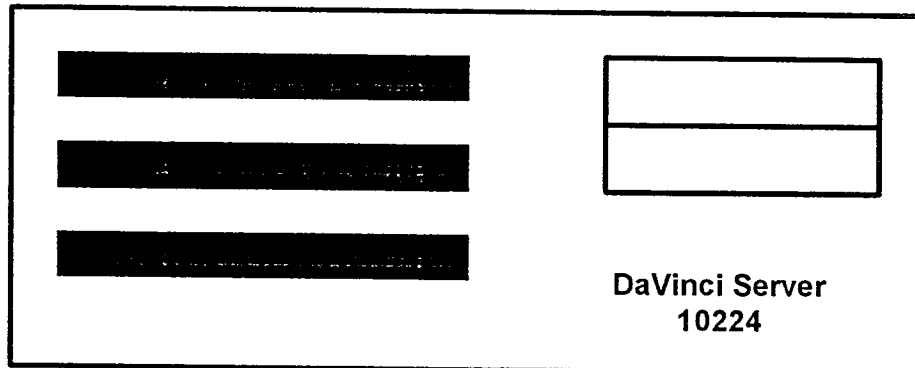
Contact-Out

1	BW Flag (not used)
2	Moisture Gain 1(not used)
3	Moisture Gain 2 (not used)
4	Moisture Gain Attenuate (not used)
5	Moisture Dark (not used)
6	Moisture Flag (not used)
7	Caliper Extend
8	
9	
10	
11	Air Gap Sneeze(not used)
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	BW Open Shutter Command (not used)
31	
32	

Contact-In

1	Moisture Edge (not used)
2	External Edge (outboard edge)
3	BW Shutter Closed (not used)
4	
5	Caliper Sensor Enabled
6	Head over temperature
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

**DAVINCI SEVER ENCLOSURE
FOR SYSTEMS 10223 AND 10224**



**UPS
1000VA
10223**

**A/C
POWER
10223**

**UPS
1000VA
10224**

**A/C
POWER
10224**

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The Results Company

One Result Way

Cupertino, CA 95014, U.S.A.

Production Release

Date: 9/25/2001

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System Status: Production

System#: 10223 Change#: 0 Revision#: 2

Mk Model#:	Qty	Disposition Code	Mfg Model#	Mfg Part Description	Build Lot/Nbr	Special	At Site	Early Shipment
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Location: MD 1 - Modifications (Specials)

Sub Location: N/A - Not Applicable

4000	1		110447010910	Provide mounting for two Gloss sensors in-line in the M	MD 1	Y		
4000	1		110447010910	Provide mounting for outboard edge in the MD downstr	MD 1	Y		
4208	2	E	Special52	Modify 4208 Gloss to TAPPI Standard	MD 1	Y		
5000	1		110447010910	Mount server, UPS and AC Box for both 10223 and 10	MD 1	Y		

Location: AM 1 - Control/Quality Manager

Sub Location: N/A - Not Applicable

5001-TS	1		09818705	Flat, Touch Screen Monitor, 19", capacitance	GN 1			
8895	1		09889500	Long Distance Driver (extender) for Monitor/Keyboard	GN 1			

Sub Location: Encl - Enclosure

5000	1		09500102	Da Vinci Server in Fancooled Enclosure	AM 1			
5000	1	I	09796200	Cable base skirt, Std bay, single, 4inch high (Parts in II	AM 1			
5000	1		09799504	Top Fan 115Vac, Pagoda	AM 1			
5000	1		09811502	UPS Assy 1000 VA, 115Vac 50/60 Hz	AM 1			

Location: GN 1 - General Equipment

Sub Location: Stat - Operator Station

5000	1		09860400	20' Cable, Da Vinci Monitor/keyboard/mouse connectic	GN 1			
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Sub Location: Prin - Printers

4570	1		09457001	115 VAC B&W Printer w/Postscript II protocol and LA	GN 1			
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Location: HD 1 - Head and Gauges

Sub Location: N/A - Not Applicable

2215	1		09221500	Sheet Width Sensor, Outboard, IR Reflect.	GN 1			
2215	1		09858300	Cable for ext. Edge Detect, Da Vinci Head	HD 1			
2290	1		09221311	Caliper, Unifoil light touch (LWC) Soft Bellows	HD 1			
2290	1		09716503	Master Air Regulator, 10 CFM (Max 2 per 4000 Scan	HD 1			
2290	1		09824900	Caliper Cable adaptor inboard of 2050-2,3; 2107-X	HD 1			
2290	1	E	09859700	Cable for Caliper in Quantum Head	HD 1			
4000	1		00299900	Light pipe, source	HD 1			
4000	2		00300000	Light pipe, receiver	HD 1			
4000	2		00309700	Light pipe, plug	HD 1			
4000	1		00496100	INSULATION SPACER RI NG, LITE PIPE	HD 1			
4000	1		07632300	Adapter,Light pipe	HD 1			
4000	2		08607801	Quartz Plate, Teflon coated	HD 1			
4000	1		09210710	Enviropak head S9, Da Vinci scanner	HD 1			
4000	1		09713700	Plug Kit - Basis Weight Sensor	HD 1			
4000	1		09713701	Plug Kit - Moisture Sensor	HD 1			

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Cupertino, CA 95014, U.S.A.

Production Release

System Status: Production

Date: 9/25/2001

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System#: 10223 Change#: 0 Revision#: 2

Mk Model#:	Qty	Disposition Code	Mfg Model#	Mfg Part Description	Build Lot/Nbr	Special	At Site	Early Shipment
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Location: HD 1 -Head and Gauges

Sub Location: N/A - Not Applicable

4000	1		09713702	Plug Kit - Caliper or Ash Sensor	HD	1		
4000	2		09713704	Plug Kit - Sheet Temp Sensor (Max 1 HeadIII; Max 2 I	HD	1		
4000	1		09713706	Plug Kit - Airgap sensor (Head IV&Q)	HD	1		
4000	1		09748900	Plug Kit (single) - Z Sensor	HD	1		
4000	1		09819501	Single sheetdeflector .5inch for Head IV, Da Vinci	HD	1		
4000	1		09822200	Bwt (non HighFlux) Receiver adaptor plates for Iscan h	HD	1		
4000	1		09861501	Htd airwipe w/St.Elim. w/ Color o/b on Da Vinci (56V	GN	1		
4208	2		09420800	Gloss sensor (DIN standard)	HD	1		
4208	1		09716503	Master Air Regulator, 10 CFM (Max 2 per 4000 Scanr	HD	1		
4208	1		09806400	Gloss Head III adaptor (spacer 1/2inch to 1/4inch)	GN	1		
4208	2		09866100	CABLE ASSY,EXT,DIN GLOSS OR SSIR,W/SDAQ 1	HD	1		
4208	2		09869500	SDAQ ACCESSORY KIT, DIN GLOSS SENSOR	HD	1		

Location: SC 1 -Scanner

Sub Location: Devr - Assy from Vancouver BC

4000	1	P	09400000	Da Vinci Scanner 0864606 with Integrated PMP	DV	1		
4000	1	P	09826601	Beam cover kit for Da Vinci scanner (2ft sections)	DV	1		
4000	1	P	09865100	Powertrack, 4000 Scanner, left hand swing PMP endbe	DV	1		
4000	1	P	E2608	Adapter Kit, Scan/Offsheet buttons both ends of scanne	DV	1		

Sub Location: N/A - Not Applicable

4000	2		09795200	Inserts, English IsoTherm/Intelliscan/Q Switch & Radi	SC	1		
4000	4		09813600	Blank, repl. Rad inserts, Isotherm/IScan/Da Vinci	SC	1		
4000	1		09857600	8 Ch. PCDAQ w/cable for PMP & Q. Scanner	GN	1		
4000	1		09861300	Air Purge Inlet Kit, Da Vinci Scanner	SC	1		
4000	1		09865900	Cable, Cable end touch panel	SC	1		
4000	1		09869000	Conf. Board set F for 4 Upper and 3 Lower SDAQ Ch.	GN	1		

Location: FW 1 -S/W Tapes /Disks/Documents

Sub Location: N/A - Not Applicable

5900	1		09588002	Real Time Application Environment S/W Version 2.0	FW	1		
5900	1		09840111	LabView version 5.1 SW AND DOCUMENTATION	FW	1		
5900	1		09862900	DaVinci Server License Kit, NT Base load software pa	FW	1		

Location: SW 1 -Software Features

Sub Location: N/A - Not Applicable

5324-S20	1		09532420	Link licence and port to Alliance partner's Non DCS Sy	SW	1		
5900-Da	1		095900DA	Advanced Gauge and Data Analysis (Color Map and 3I	SW	1		

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Cupertino, CA 95014, U.S.A.

Production Release

System Status: Production

Date: 9/25/2001

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System#: 10223 Change#: 0 Revision#: 2

Mk Model#:	Qty	Disposition Code	Mfg Model#	Mfg Part Description	Build Lot/Nbr	Special	At Site	Early Shipment
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Location: IK 1 - Installation Kits

Sub Location: N/A - Not Applicable

IK09400000	1		IK09400000	ISOTHERM SCANNER	IK	1		
IK09796200	1		IK09796200	CABLE BASE,800 X 800	IK	1		

Location: ML 1 - Manuals

Sub Location: N/A - Not Applicable

ML09221311	1		44081300	MANUAL,2213-XX	ML	1		
ML09221500	1		44081500	MANUAL,MOD 2215 SHT	ML	1		
ML09400000	1		46018100	PRECISION PLATFORM	ML	1		
ML09400000	1		46020000	DA VINCI OPERATOR'S	ML	1		
ML09420800	1		46014301	PRECISION PLUS ADVAN	ML	1		