

Honeywell - Measurex PRODUCTION RELEASE This document is the property of Honeywell - Measurex, and may not be used, reproduced, published, or disclosed to others without the express authorization of Honeywell - Measurex		INDUSTRY : PAPER PROJECT NUMBER: 110448 ORDER NUMBER: 20018809 SOF NUMBER: 10224-01 SYSTEM NUMBER: 10224
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 #: SC4		SYSTEM DESCRIPTION: Da Vinci QCS TYP-(Stations) - Scanners S800 - () - 1

DISTRIBUTION: - Montreal

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

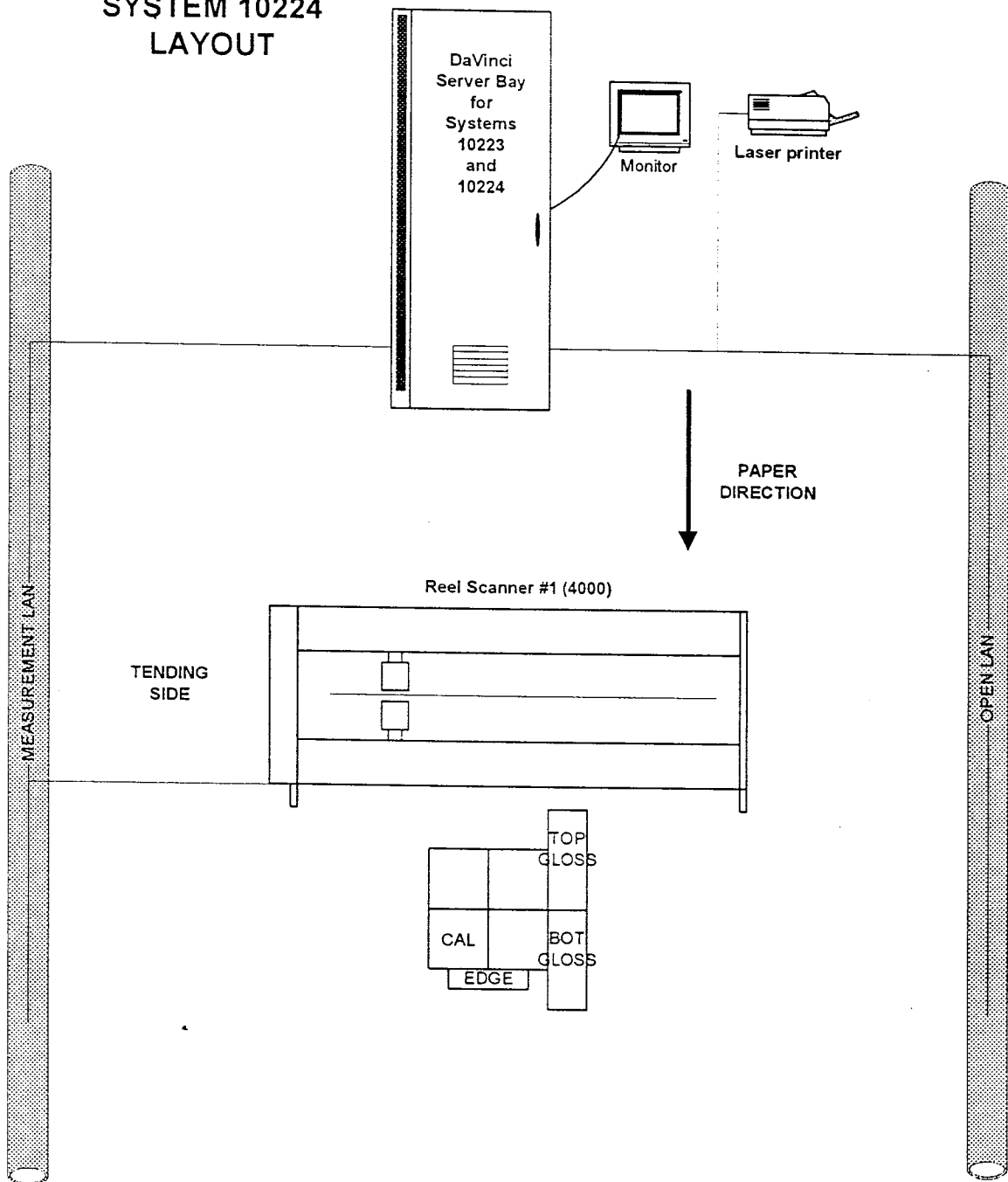
REGIONAL SALES MANAGER	- Jacques Dupuis
AREA SALES MANAGER	- Tony Marra
MANAGER SERVICE OPERATIONS	- Dave Armstrong
INSTALLATION MANAGER	- Gaston Verreault
FIELD TECHNICAL SUPERVISOR	- Charles Montgomery
PROJECT LEAD SPECIALIST	- Danny Campagna
PROJECT MANAGER	- Zohar Beneliezer

Completed by : Mary O'Donnell
 Date : November 19, 2001

FINAL



SYSTEM 10224
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:	Left
Measurement Bin #1:	Left
Emergency offsheet & Standardize side :	Left
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 INFORMATION

GRADE INFORMATION

PRODUCT:

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)
_____	Brcke 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

<u>Port#</u>	<u>Sensor</u>	<u>Location</u>
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*

C00A100
C00A101
C00A102
C00A103
C00A104
C00A105
C00A106
C00A107
C00A108
C00A109
C00A110
C00A111
C00A112
C00A113
C00A114
C00A115

Analog Inputs

VMon Analog Ground
VMon 2.5
VMon +5
VMon +15
VMon -15
VMon +24
VMon Motor Control
VMon Aux Out
VMon Board Temp
VMon -5

*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
C00AO01
C00AO02
C00AO03
C00AO04
C00AO05
C00AO06
C00AO07
C00AO08
C00AO09
C00AO10
C00AO11
C00AO12
C00AO13
C00AO14
C00AO15

Motor Speed

C00DO00
C00DO01
C00DO02
C00DO03
C00DO04
C00DO05
C00DO06
C00DO07
C00DO08
C00DO09
C00DO10
C00DO11
C00DO12
C00DO13
C00DO14
C00DO15
C00DO16
C00DO17

Digital Outputs

Sample & Reference Light
Motor Powered
Motor Forward
Contact Output Enable Strobe for DIO
Offsheet Light
Scan Light
Scanner is Parked

Watch Dog Frame Interface
Watch Dog Enable Frame Interface

Precision Measurement Processor (PMP) for Reel Scanner

DATA ACQUISITION TERMINATIONS - REEL

Analogy

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	Air Gap Sneeze(not used)
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
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27	
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29	
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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	
7	Head over temperature
8	
9	
10	
11	
12	
13	
14	
15	
16	

DAVINCI SEVER ENCLOSURE
FOR SYSTEMS 10223 AND 10224

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	DaVinci Server 10224

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	DaVinci Server 10223

UPS 1000VA 10223

A/C POWER 10223

UPS 1000VA 10224

A/C POWER 10224

Honeywell / Measurex

The Results Company

One Result Way

Cupertino, CA 95014, U.S.A.

Production Release

System Status: Production

Date: 9/25/2001

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System#: 10224 Change#: 0 Revision#: 2

Mk Model#:	Qty	Disposition Code	Mfg Model#	Mfg Part Description	Build Lot/Nbr	Special	At Site	Early Shipment
Location: MD 1 - Modifications (Specials)								
Sub Location: N/A - Not Applicable								
4000	1	E	110448010910	Provide mounting for two Gloss sensors in-line in the A	MD 1		Y	
4000	1	E	110448010910	Provide mounting for 2215 Edge Detect in the MD dow	MD 1		Y	
4000	1	E	11044809103	Mount Server, UPS, HUB & Power Distribution in bay	MD 1		Y	
4208	2	E	Special52	Modify 4208 Gloss to TAPPI Standard	MD 1			
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		08621800	POWER DIST,AC,25A	AM 1			
5000	1		09811502	UPS Assy 1000 VA, 115Vac 50/60 Hz	AM 1			
5000	1		09836300	Encl. mounting for 1000 VA UPS	AM 1			
5000	1		20000988	COMPUTER, SERVER, PE NTIUM III, 600 MHZ, 51:	AM 1			
5000	1		20000991	ETHERNET HUB, 8 PORT 115/230V, 50/60HZ	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			
Sub Location: Prin - Printers								
4570	1		09457001	115 VAC B&W Printer w/Postscript II protocol and LA	GN 1			
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 Scanr	HD 1			
2290	1		09824900	Caliper Cable adaptor inboard of 2050-2,3; 2107-X	HD 1			
2290	1		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			

Honeywell / Measurex**Production Release**

Date: 9/25/2001

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The Results Company

One Result Way

Cupertino, CA 95014, U.S.A.

System Status: Production

System#: 10224 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 F	HD 1			
4000	1		09713706	Plug Kit - Airgap sensor (Head IV&Q)	HD 1			
4000	1		09716915	0.4inch Gap Arc ,Da Vinci scanner (+/- 45 degr angle)	HD 1			
4000	1		09748900	Plug Kit (single) - Z Sensor	HD 1			
4000	1		09814800	Plug Kit - Inb. edge detect (Head IV,Q)	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 (DEN 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 7	GN 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			
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Honeywell / Measurex

The Results Company

One Result Way

Cupertino, CA 95014, U.S.A.

Production Release

System Status: Production

Date: 9/25/2001

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System#: 10224 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: SW 1 -Software Features

Sub Location: N/A - Not Applicable

5900-DA	1		095900DA	Advanced Gauge and Data Analysis (Color Map and 3I	SW	1		
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Location: IK 1 -Installation Kits

Sub Location: N/A - Not Applicable

IK09400000	1		IK09400000	ISOTHERM SCANNER	IK	1		
IK09716915	1		IK09716915	.400 HD GAP,+/-50 DE	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		