

# New Basic

# RSO

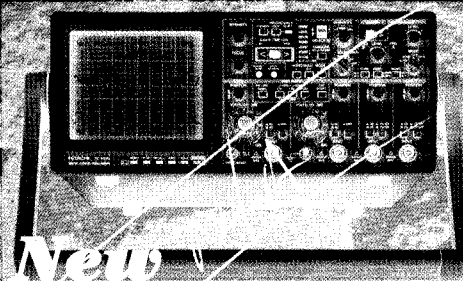
Real-time & Storage  
Oscilloscope

New Basic Real-time & Storage Oscilloscope



CERTIFICATE No. JML0082  
ISO 9001/BS 6749:1992  
EN 29002/JIS Z 9002

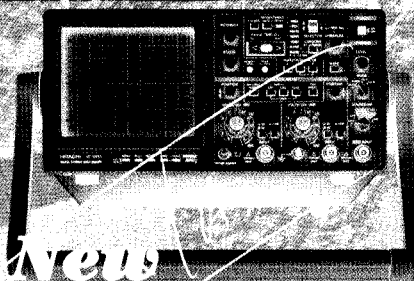
Power of Both Analog & Digital



*New*

## VC-6645

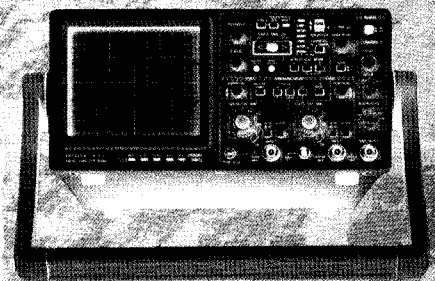
100MS/s(1CH), 50MS/s(2CH simultaneously),  
25MS/s(4CH simultaneously), 100MHz,  
4kw(1CH), 2kw/CH



*New*

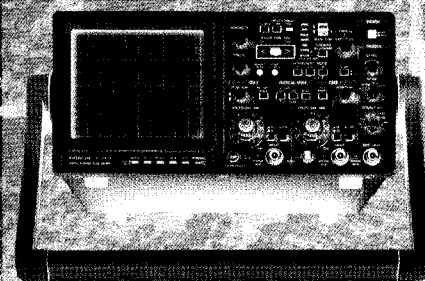
## VC-6555

100MS/s (2CH simultaneously),  
100MHz,  
8kw(1CH), 4kw/CH



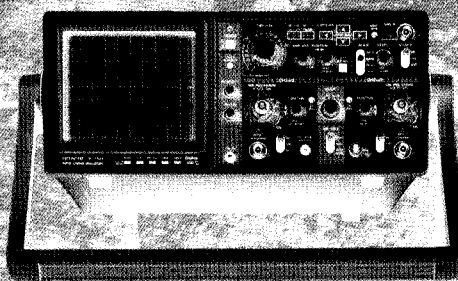
## VC-6545

40MS/s(1CH), 20MS/s(2CH simultaneously),  
100MHz,  
4kw(1CH), 2kw/CH



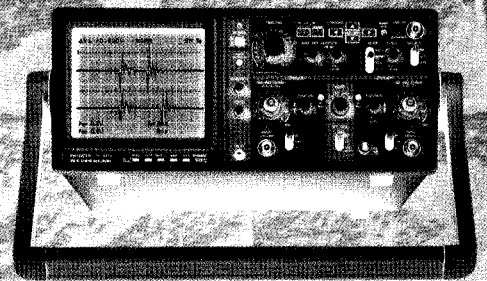
## VC-6525

20MS/s (2CH simultaneously),  
50MHz, 2kw/CH



## VC-6524

20MS/s, 50MHz, 2kw/CH



## VC-6523

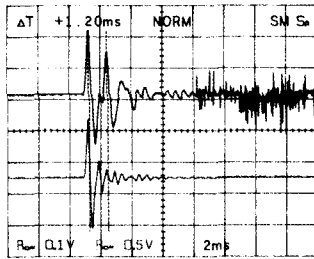
20MS/s, 20MHz, 2kw/CH

# Easy to Use Compact Analog Real-time

## Single Shot Capture

Elusive single-shot and intermittent phenomena are simple to capture using the digital storage function.

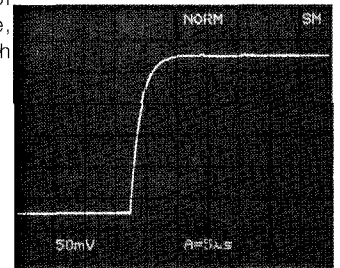
	Max. sampling rate
VC-6645	100MS/s (1CH), 25MS/s (4CH simultaneously)
VC-6555	100MS/s (2CH simultaneously)
VC-6545	40MS/s(1CH), 20MS/s(2CH simultaneously)
VC-6525	20MS/s(2CH simultaneously)
VC-6524	20MS/s
VC-6523	20MS/s



## Storage of Repeating Waveform

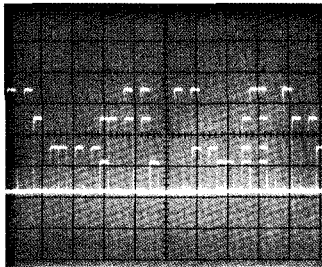
Storage of repetitive waveforms of same bandwidth as analog mode, enabling hardcopy and transfer of high speed repetitive waveform.

	Bandwidth
VC-6645	100MHz
VC-6555	100MHz
VC-6545	100MHz
VC-6525	50MHz
VC-6524	50MHz
VC-6523	20MHz

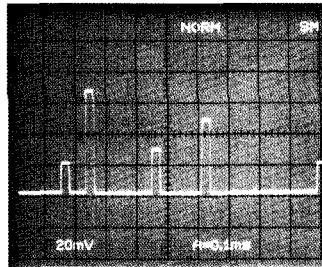


## Static Observation of Non-repeating Phenomena

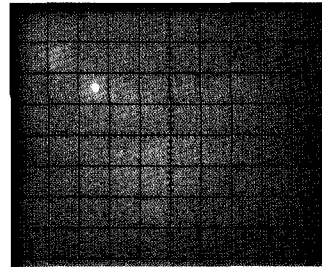
Even non-repeating events which cause a jumbled overlaid display using a conventional oscilloscope can be observed as clean a waveform.



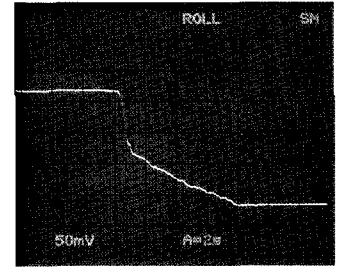
Analog real-time



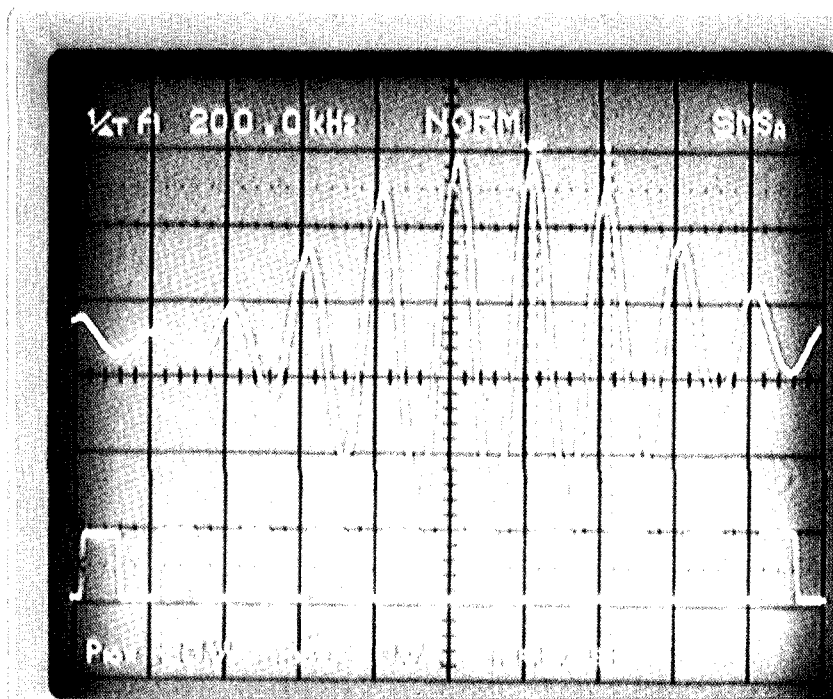
digital Storage



Analog real-time



digital Storage



**HITACHI VC-6555**  
DIGITAL STORAGE OSCILLOSCOPE

MENU PLOT RECALL SAVE HOLD  
SELECT BY VARIABLE

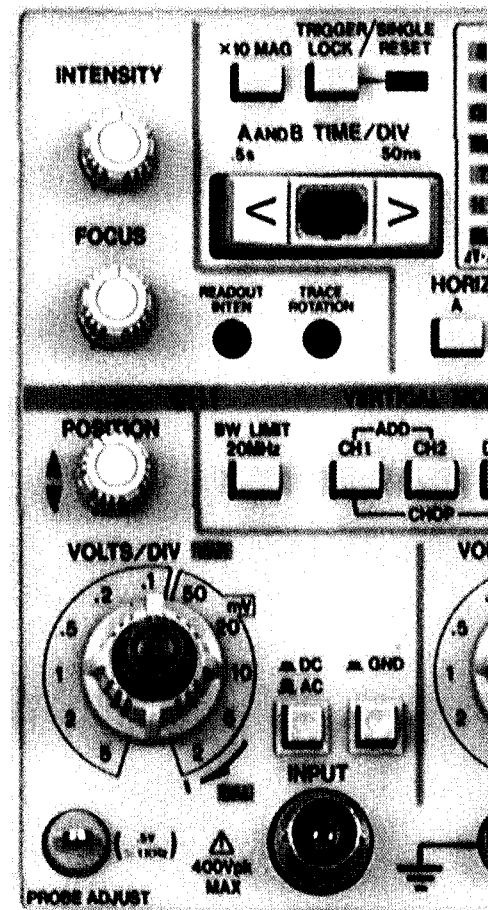


Photo in VC-6555

DSO Operation is Straightforward by Using Six Push Buttons Located Under the Bezel

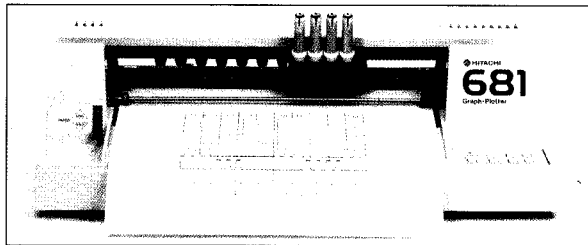
Easy  
Operation

Digital Oscilloscope

# & Digital Storage Oscilloscopes

## Hardcopy of Waveform Data

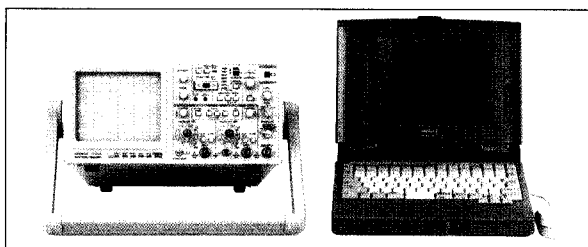
By connecting to an external plotter, it is easy to produce hardcopies of waveform data.



Hitachi Plotter 681-XA

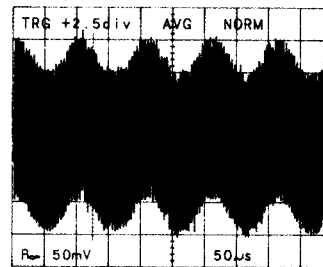
## Transfer of Waveform data

The RS-232C interface can be used to transfer stored waveform data to an external computer or other device for secondary storage and analysis.

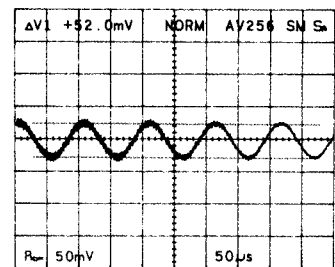


## Averaging to Reduce Noise

Averaging can be used to reduce noise, thereby creating a display of just the signal of interest.



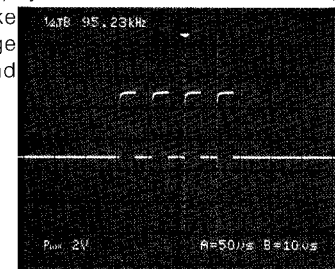
Before averaging



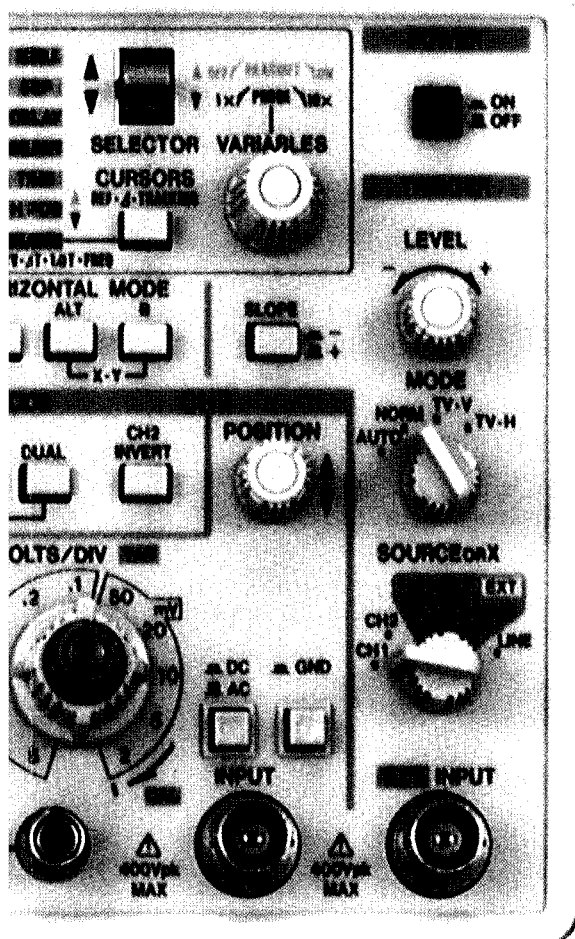
After averaging

## Readout/Cursor Measurement

The readout function provides CRT display of measured values. In addition, two cursors can be used to make accurate measurements of voltage difference, time difference, and frequency.



## Actual Size



## Save Memory

Captured waveform can be stored and recalled for comparison.

## Expanded Display

After a waveform is stored, it can be displayed in expanded form. In this display format, data between sampled points can be interpolated (either linear or sinusoidal interpolation can be selected).

## Sweep Time Autoranging (VC-6645/6555/6545/6525)

The sweep time rate setting is automatically optimized in accordance with the input signal frequency.

## Automatic Trigger Level (VC-6645/6555/6545/6525)

The trigger level variable range is automatically optimized in accordance with the input signal amplitude.

## Trigger Lock (VC-6645/6555/6545/6525)

This unique feature is extremely effective in observation of complex pulse trains.

## Frequency Counter (VC-6645/6555/6545/6525)

The frequency counter of the channel selected as the trigger signal is automatically counted.

## Delayed Sweep (VC-6645/6555/6545/6525)

Delayed sweep function can be used to expand display in analog real-time mode and to post-trigger in digital storage mode.

## DC Offset (VC-6524)

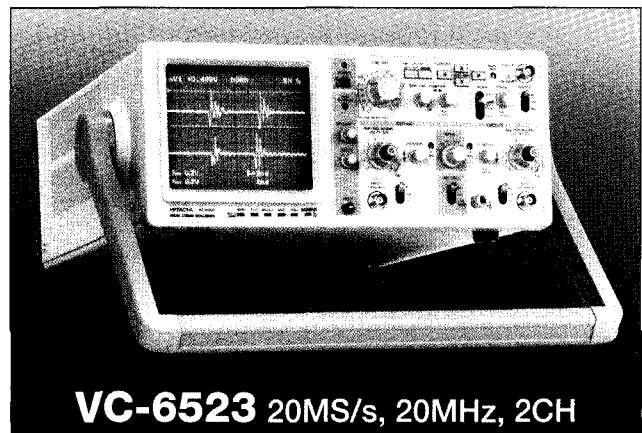
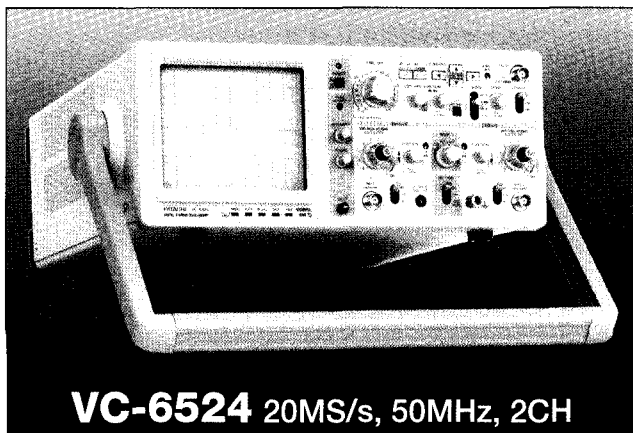
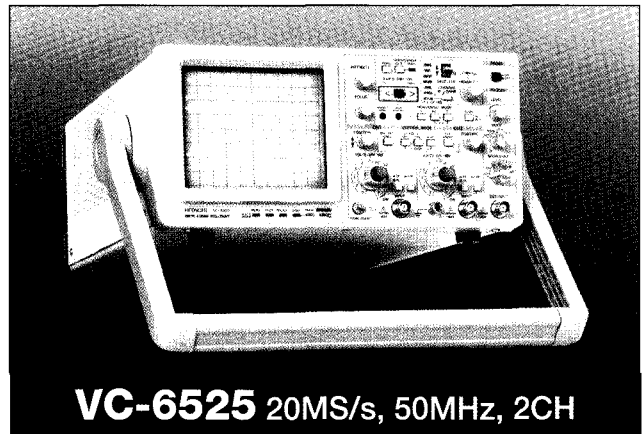
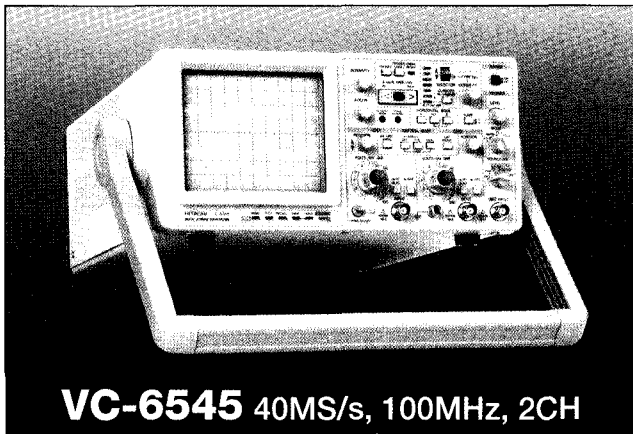
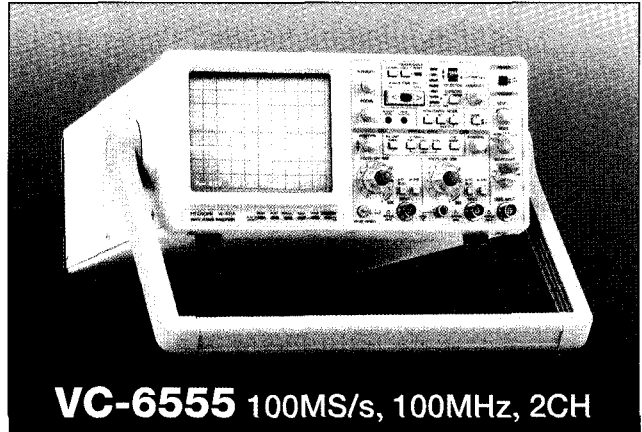
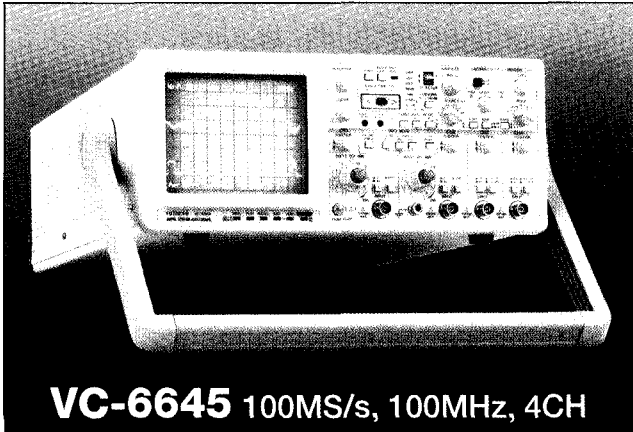
The DC offset function can be used to cancel an portion of DC voltage at vertical expanded display. In addition, it can be used to cancel an portion of DC voltage at ultra-low speed signal even under AC coupling lower cutoff frequency.

Scope That Feels Like an Analog Scope

## Selection Table

<b>VC-6645</b>	100MS/s (1CH), 50MS/s (2CH simultaneously) 25MS/s (4CH simultaneously)	4CH	DC to 100MHz	4kw(1CH) 2kw/CH	YES YES	YES YES
<b>VC-6555</b>	100MS/s (2CH simultaneously)	2CH	DC to 100MHz	8kw(1CH), 4kw/CH	YES	YES
<b>VC-6545</b>	40MS/s (1CH simultaneously) 20MS/s (2CH simultaneously)	2CH	DC to 100MHz	4kw(1CH), 2kw/CH	YES	YES
<b>VC-6525</b>	20MS/s (2CH simultaneously)	2CH	DC to 50MHz	2kw/CH	YES	YES
<b>VC-6524</b>	20MS/s	2CH	DC to 50MHz	2kw/CH	—	YES
<b>VC-6523</b>	20MS/s	2CH	DC to 20MHz	2kw/CH	—	YES

<b>VC-6645</b>	YES	YES	YES	YES	—	—	310×130×450 / 12.2×5.1×17.7	9 / 19.8
<b>VC-6555</b>	YES	YES	YES	YES	—	—	275×130×433 / 10.8×5.1×17.0	8 / 17.6
<b>VC-6545</b>	YES	YES	YES	YES	—	—	275×130×360 / 10.8×5.1×14.1	6.5 / 14.3
<b>VC-6525</b>	YES	YES	YES	YES	—	—	275×130×360 / 10.8×5.1×14.1	6.5 / 14.3
<b>VC-6524</b>	—	—	—	—	YES	YES	310×130×370 / 12.2×5.1×14.5	8 / 17.6
<b>VC-6523</b>	—	—	—	—	—	—	310×130×370 / 12.2×5.1×14.5	8 / 17.6



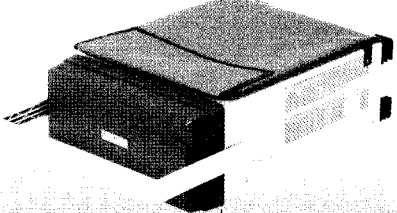
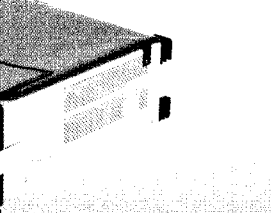
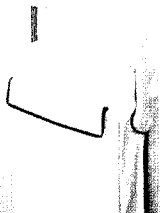
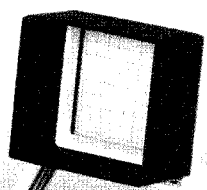


# VC-6645/6555 Specifications

CRT																			
Type	6-inch, rectangular																		
Accelerating potential	Approx. 17kV																		
Z-axis input	DC coupling, positive-going input decreases																		
VERTICAL SYSTEM																			
Inputs	VC-6645: CH1, CH2, CH3, CH4 VC-6555: CH1, CH2																		
Sensitivity and accuracy	VC-6645 (CH1, CH2): 2mV to 5V/div $\pm 3\%$ (CH3, CH4): 0.1V/div and 0.5V/div $\pm 3\%$ VC-6555: 2mV to 5V/div $\pm 3\%$																		
Bandwidth	DC to 100MHz (2mV/div: DC to 20MHz)																		
Rise time	Approx. 3.5ns (2mV/div: Approx. 17.5ns)																		
Input withstand voltage	400V (DC+AC peak at 1kHz)																		
Input coupling	AC, GND, DC																		
Input impedance	1M $\Omega$ $\pm 1.5\%$ , approx. 23pF																		
Display mode	VC-6645: CH1, CH2, DUAL, CHOP, ADD, QUAD VC-6555: CH1, CH2, DUAL, CHOP, ADD																		
Polarity inversion	CH2 only																		
X-Y OPERATION																			
X-axis input	VC-6645: X-axis: CH1, CH2, CH3, CH4 (CH1 or CH2 in storage mode) Y-axis: CH1, CH2, CH1 & CH2 (CH3 or CH4 in storage mode) VC-6555: X-axis: CH1, CH2, EXT, EXT $\pm 10$ (CH1 in storage mode) Y-axis: CH1, CH2, CH1 & CH2 (CH2 in storage mode)																		
X-axis bandwidth	DC to 500kHz																		
Phase error	Within 3° from DC to 50kHz																		
HORIZONTAL SYSTEM																			
Sweep time (non storage mode)	A (main) sweep: 50ns/div to 0.5s/div $\pm 3\%$ B (delayed) sweep: 50ns/div to 50ms/div $\pm 3\%$																		
Max. sweep rate	5ns/div ( $\times 10$ mag.) $\pm 4\%$																		
Sweep mode	A, ALT (non-storage mode only), B																		
Delay time	1 $\mu$ s to 5s																		
Delay jitter	1/20000 or less																		
TRIGGER SYSTEM																			
Trigger mode	VC-6645: A trigger: AUTO, NORM, TV-V, TV-H, SINGLE B trigger: AUTO, NORM (Trigger source is depending on A) VC-6555: AUTO, NORM, TV-V, TV-H, SINGLE																		
Trigger source	VC-6645: CH1, CH2, CH3, CH4, ALT (CH1/CH2), LINE VC-6555: CH1, CH2, LINE, EXT (AC, DC, DC $\pm 10$ )																		
Trigger slope	+, ---																		
Trigger sensitivity	VC-6645: <table border="1"> <tr> <td></td> <td>DC to 20MHz</td> <td>20MHz to 100MHz</td> </tr> <tr> <td>CH1, CH2</td> <td>0.35div</td> <td>1.5div</td> </tr> <tr> <td>CH3, CH4</td> <td>0.5div</td> <td>1.5div</td> </tr> </table> VC-6555: <table border="1"> <tr> <td></td> <td>DC to 20MHz</td> <td>20MHz to 100MHz</td> </tr> <tr> <td>CH1, CH2</td> <td>0.35div</td> <td>1.5div</td> </tr> <tr> <td>EXT</td> <td>50mV</td> <td>150mV</td> </tr> </table>		DC to 20MHz	20MHz to 100MHz	CH1, CH2	0.35div	1.5div	CH3, CH4	0.5div	1.5div		DC to 20MHz	20MHz to 100MHz	CH1, CH2	0.35div	1.5div	EXT	50mV	150mV
	DC to 20MHz	20MHz to 100MHz																	
CH1, CH2	0.35div	1.5div																	
CH3, CH4	0.5div	1.5div																	
	DC to 20MHz	20MHz to 100MHz																	
CH1, CH2	0.35div	1.5div																	
EXT	50mV	150mV																	
TV trigger sensitivity	INT: Sync pulse more than 1div EXT (VC-6555): Sync pulse more than 200mVp-p																		
CRT READOUT FUNCTION																			
Setting display	CH1/CH2/SAVE sensitivity, Sweep time, Delay time, sampling mode, aliasing condition, trigger point, smoothing, no. of averages, interpolation																		
Cursor measurements	Voltage difference ( $\Delta V$ ), time difference ( $\Delta T$ ), frequency (1/ $\Delta T$ )																		
Frequency counter	Frequency range: 20Hz to 100MHz No. of digits: 4 digits Accuracy: 1 resolution $\pm 100$ ppm (15 to 35°C)																		

STORAGE FUNCTION																
Max. sampling rate	VC-6645: 100MS/s (1-CH operation) 50MS/s (2-CH simultaneously) 25MS/s (4-CH simultaneously) VC-6555: 100MS/s (2-CH simultaneously)															
Max. storage bandwidth	VC-6645: DC to 5MHz (Single shot phenomena) DC to 100MHz (Repetitive phenomena) VC-6555: DC to 25MHz (Single shot phenomena) DC to 100MHz (Repetitive phenomena)															
Memory Capacity	VC-6645: 4000 word (1CH operation and 1 $\mu$ s/div to 50s/div) 2000 word (2CH or 4CH operation and 2 $\mu$ s/div to 50s/div) 1000 word (1CH operation and 50ns/div to 0.5 $\mu$ s/div, 2CH or 4CH operation and 50ns/div to 1 $\mu$ s/div) VC-6555: 8000 word (1CH and 1 $\mu$ s/div to 50s/div, except average mode) 4000 word (1CH and 1 $\mu$ s/div to 0.1s/div, in average mode) (2CH and 1 $\mu$ s/div to 50s/div, except average mode) 2000 word (2CH and 1 $\mu$ s/div to 0.1s/div, in average mode) 1000 word (50ns/div to 0.5 $\mu$ s/div)															
Display memory	1000 word $\times$ 4															
Save memory	VC-6645: 1000 word $\times$ 4 (with backed-up) VC-6555: 1000 word $\times$ 2 (with backed-up)															
Vertical resolution	8 bits															
Horizontal Display resolution	100 points/div															
Storage mode	Normal, Average (4, 16, 64, 256 times), Roll, Hold, Single															
Sweep time	<table border="1"> <tr> <td>Sampling mode</td> <td>VC-6645</td> <td>VC-6555</td> </tr> <tr> <td>Equivalent sampling (A sweep only)</td> <td>50ns/div to 0.5<math>\mu</math>s/div or 50ns/div to 1<math>\mu</math>s/div</td> <td>50ns/div to 0.5<math>\mu</math>s/div</td> </tr> <tr> <td>A sweep real-time sampling</td> <td>1<math>\mu</math>s/div to 0.1s/div or 2<math>\mu</math>s/div to 0.1s/div</td> <td>1<math>\mu</math>s/div to 0.1s/div</td> </tr> <tr> <td>B sweep real-time sampling</td> <td>1<math>\mu</math>s/div to 50ms/div or 2<math>\mu</math>s/div to 50ms/div</td> <td>1<math>\mu</math>s/div to 50ms/div</td> </tr> <tr> <td>Roll (A sweep only)</td> <td>0.2s/div to 50s/div</td> <td>0.2s/div to 50s/div</td> </tr> </table>	Sampling mode	VC-6645	VC-6555	Equivalent sampling (A sweep only)	50ns/div to 0.5 $\mu$ s/div or 50ns/div to 1 $\mu$ s/div	50ns/div to 0.5 $\mu$ s/div	A sweep real-time sampling	1 $\mu$ s/div to 0.1s/div or 2 $\mu$ s/div to 0.1s/div	1 $\mu$ s/div to 0.1s/div	B sweep real-time sampling	1 $\mu$ s/div to 50ms/div or 2 $\mu$ s/div to 50ms/div	1 $\mu$ s/div to 50ms/div	Roll (A sweep only)	0.2s/div to 50s/div	0.2s/div to 50s/div
Sampling mode	VC-6645	VC-6555														
Equivalent sampling (A sweep only)	50ns/div to 0.5 $\mu$ s/div or 50ns/div to 1 $\mu$ s/div	50ns/div to 0.5 $\mu$ s/div														
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B sweep real-time sampling	1 $\mu$ s/div to 50ms/div or 2 $\mu$ s/div to 50ms/div	1 $\mu$ s/div to 50ms/div														
Roll (A sweep only)	0.2s/div to 50s/div	0.2s/div to 50s/div														
Smoothing	Selectable On/OFF															
Interpolation	Linear or sine (only for magnified display)															
Pre-trigger	VC-6645: Max. 0 to 20div (1CH operation and 1 $\mu$ s/div to 0.1s/div) VC-6555: Max. 0 to 40div (1CH operation and 1 $\mu$ s/div to 0.1s/div)															
Post-trigger	VC-6645: Max. 0 to 10div (1CH operation and 1 $\mu$ s/div to 0.1s/div) VC-6555: Max. 0 to 30div (1CH operation and 1 $\mu$ s/div to 0.1s/div)															
Expanded display	10 times (not possible with respect to saved waveform)															
External I/O	RS-232C interface															
Hardcopy	External plotter output (for HP-GL™ plotter) No. of pens: 6 pens. Plot size: 1, 2, 4 waveforms in A4 size															
OTHERS																
Signal output	Output of the signal selected as the trigger source channel Output voltage: Approx. 25mV/div Frequency response: DC to 10MHz Output impedance: Approx. 50 $\Omega$															
Power supply	90 to 250V AC, 48 to 440Hz															
Ambient temperature	Rated range of use: 10 to 35°C (50 to 95°F) Operating: 0 to 40°C (32 to 104°F) Non-operating: -20 to 70°C (-4 to 158°F)															
Ambient humidity	Operation: 45 to 85% Non-operating: 35 to 85% (70% or less at 50°C (122°F))															
EMI protection	Satisfied VDE standard 0871 class B															
Power consumption	VC-6645: approx. 80W VC-6555: approx. 70W															
Dimensions	VC-6645: approx. 310(W) $\times$ 130(H) $\times$ 450(D)mm, 12.2 $\times$ 5.1 $\times$ 17.7 ins. VC-6555: approx. 275(W) $\times$ 130(H) $\times$ 433(D)mm, 10.8 $\times$ 5.1 $\times$ 17.0 ins.															
Weight	VC-6645: approx. 9kg, 19.8 lbs. VC-6555: approx. 8kg, 17.6 lbs.															
STANDARD ACCESSORIES																
Probe (1:1/10:1 switchable) $\times$ 2, AC power cord, Fuse, Operation manual																

## ●Optional Accessories

Front Cover	Accessory Pouch	Dust Cover	Viewing Hood
 <p>No.6806: VC-6645/6524/6523 No.6809: VC-6555/6545/6525</p>	 <p>No.6710: VC-6645/6524/6523 No.6708: VC-6555/6545/6525</p>	 <p>No. 6522: VC-6645 No. 6524: VC-6555 No. 6519: VC-6545/6525 No. 6512: VC-6524/6523</p>	 <p>B-655</p>
<b>RS-232C Cable for Hitachi Plotter</b> No.4287			

# VC-6545/6525/6524/6523 Specifications

<b>CRT</b>																																	
Type	6-inch, rectangular																																
Accelerating potential	VC-6545: Approx. 17kV VC-6525/6524: Approx. 12kV VC-6523: Approx. 2kV																																
Z-axis input	DC coupling, positive-going input decreases Bandwidth; VC-6545/6525: DC to 5MHz. VC-6524/6523: DC to 2MHz Input withstand voltage: 30V (DC+ACpeak) or 30Vp-pAC at 1kHz																																
<b>VERTICAL SYSTEM</b>																																	
Inputs	CH1, CH2																																
Sensitivity and accuracy	VC-6545/6525: 2mV/div to 5V/div $\pm 3\%$ VC-6524/6523: 5mV/div to 5V/div $\pm 3\%$ (x5: 1mV/div)																																
Bandwidth	VC-6545: DC to 100MHz (2mV/div; DC to 10MHz) VC-6525: DC to 50MHz (2mV/div; DC to 10MHz) VC-6524: DC to 50MHz (x5: DC to 7MHz) VC-6523: DC to 20MHz (x5: DC to 7MHz)																																
Rise time	VC-6545: Approx. 3.5ns (2mV/div; Approx. 17.5ns) VC-6525: Approx. 7ns (2mV/div; Approx. 35ns) VC-6524: Approx. 7ns (x5: Approx. 50ns) VC-6523: Approx. 17.5ns (x5: Approx. 50ns)																																
Input withstand voltage	VC-6545/6525: 400V (DC+ACpeak at 1kHz) VC-6524/6523: 300V (DC+ACpeak at 1kHz)																																
Input coupling	AC, GND, DC																																
Input impedance	VC-6545/6525: $1M\Omega \pm 1.5\%$ , approx. 23pF VC-6524/6523: Approx. $1M\Omega$ , approx. 25pF																																
Display mode	VC-6545/6525: CH1, CH2, DUAL, CHOP, ADD VC-6524/6523: CH1, CH2, ALT, CHOP, ADD																																
Polarity inversion	CH2 only																																
<b>X-Y OPERATION</b>																																	
X-axis input	VC-6545/6525: X-axis: CH1, CH2, EXT, EXT-10 (CH1 in storage mode) Y-axis: CH1, CH2, CH1 & CH2 (CH2 in storage mode) VC-6524/6523: X-axis: CH1, Y-axis: CH2																																
X-axis bandwidth	DC to 500kHz																																
Phase error	Within 3° from DC to 50kHz																																
<b>HORIZONTAL SYSTEM</b>																																	
Sweep time (non storage mode)	VC-6545/6525: A (main) sweep: 50ns/div to 0.5s/div $\pm 3\%$ B (delayed) sweep: 50ns/div to 50ms/div $\pm 3\%$ VC-6524/6523: 0.2 $\mu$ s/div to 0.2s/div																																
Max. sweep rate	VC-6545/6525: 5ns/div (x10 mag.) $\pm 4\%$ VC-6524: 20ns/div (x10 mag.) $\pm 5\%$ VC-6523: 100ns/div (x10 mag.) $\pm 5\%$ (20ns and 50ns/div are uncalibrated)																																
Sweep mode	VC-6545/6525: A, ALT (non-storage mode only), B VC-6524/6523: A only																																
Delay time	VC-6524/6525: 1 $\mu$ s to 6s																																
Delay jitter	VC-6524/6525: 1/20000 or less																																
<b>TRIGGER SYSTEM</b>																																	
Trigger mode	VC-6545/6525: AUTO, NORM, TV-V, TV-H, SINGLE VC-6524/6523: AUTO, NORM, TV-V, TV-H																																
Trigger source	VC-6545/6525: CH1, CH2, LINE, EXT (AC, DC, DC-10) VC-6524/6523: INT (CH1, CH2, V-MODE), LINE, EXT																																
Trigger slope	+, -																																
Trigger sensitivity	<table border="1"> <tr> <td>VC-6545</td> <td>DC to 20MHz</td> <td>20MHz to 100MHz</td> </tr> <tr> <td>VC-6525</td> <td>DC to 10MHz</td> <td>10MHz to 50MHz</td> </tr> <tr> <td>CH1, CH2</td> <td>0.35div</td> <td>1.5div</td> </tr> <tr> <td>EXT</td> <td>50mV</td> <td>150mV</td> </tr> </table> <table border="1"> <tr> <td>VC-6524</td> <td>20Hz to 5MHz</td> <td>5MHz to 40MHz</td> <td>40MHz to 50MHz</td> </tr> <tr> <td>VC-6523</td> <td>20Hz to 2MHz</td> <td>2MHz to 20MHz</td> <td>—</td> </tr> <tr> <td>INT(CH1, CH2)</td> <td>0.5div</td> <td>1.5div</td> <td>2.0div</td> </tr> <tr> <td>INT(V-MODE)</td> <td>2.0div</td> <td>3.0div</td> <td>3.5div</td> </tr> <tr> <td>EXT</td> <td>200mV</td> <td>800mV</td> <td>1V</td> </tr> </table>	VC-6545	DC to 20MHz	20MHz to 100MHz	VC-6525	DC to 10MHz	10MHz to 50MHz	CH1, CH2	0.35div	1.5div	EXT	50mV	150mV	VC-6524	20Hz to 5MHz	5MHz to 40MHz	40MHz to 50MHz	VC-6523	20Hz to 2MHz	2MHz to 20MHz	—	INT(CH1, CH2)	0.5div	1.5div	2.0div	INT(V-MODE)	2.0div	3.0div	3.5div	EXT	200mV	800mV	1V
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EXT	200mV	800mV	1V																														
TV trigger sensitivity	INT: Sync pulse more than 1div EXT: Sync pulse more than 200mVp-p																																

<b>CRT READOUT FUNCTION</b>																															
Setting display	CH1/CH2/SAVE sensitivity, Sweep time, Delay time (except VC-6524/6523), sampling mode, aliasing condition, trigger point, smoothing, no. of averages, interpolation																														
Cursor measurements	Voltage difference ( $\Delta V$ ), time difference ( $\Delta T$ ), frequency (1/ $\Delta T$ )																														
Frequency counter	Frequency range: VC-6545: 20Hz to 100MHz, VC-6525: 20Hz to 50MHz (except VC-6524/6523) No. of digits: 4 digits Accuracy: 1 resolution $\pm 100$ ppm (15 to 35°C)																														
<b>STORAGE FUNCTION</b>																															
Max. sampling rate	VC-6545: 40MS/s (1-CH operation) 20MS/s (2-CH simultaneously) VC-6525: 20MS/s (2-CH simultaneously) VC-6524/6523: 20MS/s																														
Max. storage bandwidth	VC-6545: DC to 5MHz (Single shot phenomena) DC to 100MHz (Repetitive phenomena) VC-6525/6524: DC to 5MHz (Single shot phenomena) DC to 50MHz (Repetitive phenomena) VC-6523: DC to 5MHz (Single shot phenomena) DC to 20MHz (Repetitive phenomena)																														
Memory Capacity	VC-6545: 4000 word (1CH operation and 2.5 $\mu$ s/div to 50s/div) 2000 word (2CH operation and 2.5 $\mu$ s/div to 50s/div) 1000 word (50ns/div to 2 $\mu$ s/div) VC-6525: 2000 word (5 $\mu$ s/div to 50s/div) 1000 word (50ns/div to 2 $\mu$ s/div) VC-6524/6523: 2000 word (5 $\mu$ s/div to 20s/div) 1000 word (0.2 $\mu$ s/div to 2 $\mu$ s/div)																														
Display memory	1000 word x 4																														
Save memory	VC-6545/6525: 1000 word x 2 (with backed-up) VC-6524/6523: 1000 word x 2																														
Vertical resolution	8 bits																														
Horizontal display resolution	100 points/div																														
Storage mode	Normal, Average (4, 16, 64, 256 times), Roll, Hold, Single																														
Sweep time	<table border="1"> <tr> <td></td> <td>Sampling mode</td> <td></td> </tr> <tr> <td rowspan="4">VC-6545</td> <td>Equivalent sampling (A sweep only)</td> <td>50ns/div to 2<math>\mu</math>s/div</td> </tr> <tr> <td>A sweep real-time sampling</td> <td>2.5<math>\mu</math>s/div to 0.1s/div</td> </tr> <tr> <td>B sweep real-time sampling</td> <td>2.5<math>\mu</math>s/div to 50ms/div</td> </tr> <tr> <td>Roll (A sweep only)</td> <td>0.2s/div to 50s/div</td> </tr> <tr> <td rowspan="4">VC-6525</td> <td>Equivalent sampling (A sweep only)</td> <td>50ns/div to 2<math>\mu</math>s/div</td> </tr> <tr> <td>A sweep real-time sampling</td> <td>5<math>\mu</math>s/div to 0.1s/div</td> </tr> <tr> <td>B sweep real-time sampling</td> <td>5<math>\mu</math>s/div to 50ms/div</td> </tr> <tr> <td>Roll (A sweep only)</td> <td>0.2s/div to 50s/div</td> </tr> <tr> <td>VC-6524</td> <td>Equivalent sampling</td> <td>0.2<math>\mu</math>s/div to 2<math>\mu</math>s/div</td> </tr> <tr> <td>VC-6523</td> <td>real-time sampling</td> <td>5<math>\mu</math>s/div to 0.2s/div</td> </tr> <tr> <td></td> <td>Roll</td> <td>0.5s/div to 20s/div</td> </tr> </table>		Sampling mode		VC-6545	Equivalent sampling (A sweep only)	50ns/div to 2 $\mu$ s/div	A sweep real-time sampling	2.5 $\mu$ s/div to 0.1s/div	B sweep real-time sampling	2.5 $\mu$ s/div to 50ms/div	Roll (A sweep only)	0.2s/div to 50s/div	VC-6525	Equivalent sampling (A sweep only)	50ns/div to 2 $\mu$ s/div	A sweep real-time sampling	5 $\mu$ s/div to 0.1s/div	B sweep real-time sampling	5 $\mu$ s/div to 50ms/div	Roll (A sweep only)	0.2s/div to 50s/div	VC-6524	Equivalent sampling	0.2 $\mu$ s/div to 2 $\mu$ s/div	VC-6523	real-time sampling	5 $\mu$ s/div to 0.2s/div		Roll	0.5s/div to 20s/div
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VC-6524	Equivalent sampling	0.2 $\mu$ s/div to 2 $\mu$ s/div																													
VC-6523	real-time sampling	5 $\mu$ s/div to 0.2s/div																													
	Roll	0.5s/div to 20s/div																													
Smoothing	Selectable On/OFF																														
Interpolation	Linear or sine (only for magnified display)																														
Pre-trigger	VC-6545: Max. 0 to 20div VC-6525/6524/6523: Max. 0 to 10div																														
Post-trigger	VC-6545: Max. 0 to 10div																														
Expanded display	10 times (not possible with respect to saved waveform)																														
External I/O	RS-232C interface																														
Hardcopy	External plotter output (for HP-GL™ plotter) No. of pens: 6 pens. Plot size: 1, 2, 4 waveforms in A4 size																														
<b>OTHERS</b>																															
Signal output	Output of the signal selected as the trigger source channel Output voltage: Approx. 25mV/div Frequency response: DC to 10MHz Output impedance: Approx. 50 $\Omega$																														
Power supply	VC-6545/6525: 90 to 250V AC, 48 to 440Hz VC-6524/6523: 100/120/220/240V AC $\pm 10\%$ , 50/60/400Hz																														
Ambient temperature	Rated range of use: 10 to 35°C (50 to 95°F) Operating: 0 to 40°C (32 to 104°F) Non-operating: -20 to 70°C (-4 to 158°F)																														
Ambient humidity	Operation: 45 to 85% Non-operating: 35 to 85% (70 % or less at 50°C (122°F))																														
EMI protection	Satisfied VDE standard 0871 class B																														
Power consumption	Approx. 50W																														
Dimensions	VC-6545/6525: Approx. 275(W) x 130(H) x 360(D)mm, 10.8 x 5.1 x 14.2 ins. VC-6524/6523: Approx. 310(W) x 130(H) x 370(D)mm, 12.2 x 5.1 x 14.6 ins.																														
Weight	VC-6545/6525: approx. 6.5kg, 14.3 lbs. VC-6524/6523: approx. 8kg, 17.6 lbs.																														
<b>STANDARD ACCESSORIES</b>																															
Probe (1:1/10:1 switchable) x 2, AC power cord, Fuse, Operation manual																															

Specifications and outer appearance are subject to change without prior notice

## Hitachi Denshi, Ltd.

Head Office : 1-1 Kunitachi, Saitama-shi, Chiyoda-ku, Tokyo 187, Japan  
Telephone: 03-6942-1311 Fax: 03-6942-1334 Telex: H1CO 267146  
Singapore Office : 10 Anson Road #29-15 International Plaza, Singapore 079935  
Telephone: 65-251-0030 Fax: 65-251-0034

Beijing Office : Beijing Electronic Building, 25 Dong Sanmen Lane, Beihai, China  
Telephone: 86-10-6523-8822 Fax: 86-10-6523-8823

### Hitachi Denshi America, Ltd.

Head Office : 1450 Chesapeake Park Drive, Westborough, Mass 01581, USA  
Telephone: 01-508-391-2900 Fax: 01-508-391-3019

Chicago Office : 6641 Long Center Avenue, Skokie, Ill. 60077, USA  
Telephone: 01-847-954-4900 Fax: 01-847-954-8300

Los Angeles Office : 371 Van Ness Way, Suite 120, Commerce, California 90022, USA  
Telephone: 01-818-391-6315 Fax: 01-818-391-6322

Dallas Office : 2720 West MKV Highway, Suite 1115, Irving, Texas 75037, USA  
Telephone: 01-972-991-4525 Fax: 01-972-991-4214

Atlanta Office : 3520 Arrowhead Place, Suite 115, Atlanta, Georgia 30306, USA  
Telephone: 01-770-969-2635 Fax: 01-770-263-0035

### Hitachi Denshi, Ltd. (Canada)

Head Office : 65 Milliken Drive, Scarborough, Ontario M1H 2Z6, Canada  
Telephone: 01-416-291-5800 Fax: 01-416-291-1160

Eastern Office : 5125 - 7 Avenue, Scarborough, Ontario M1S 1T6, Canada  
Telephone: 01-416-291-4900 Fax: 01-416-291-4901

Ottawa Office : 59 Ardair Drive, Nepean, Ontario K2P 1K5, Canada  
Telephone: 01-613-297-3830 Fax: 01-613-297-3835

### Hitachi Denshi (Europe) GmbH

Head Office : Wankmühl Str. 96-98, Aachen D-52074, FRG  
Telephone: 0531066300 Fax: 05310661800

### Hitachi Denshi (U.K.) Ltd.

Head Office : 133-14 Garsk Road, Industrial Estate, Woking, Surrey GU24 0JF, England  
Telephone: 01494-623241 Fax: 01494-623243

Leeds Office : Wilton House, 50 Maria Road, Leeds, LS1 5JZ, United Kingdom  
Telephone: 01113-963294 Fax: 01113-963293