The first high-speed digital data recorder in the world to use the AIT technology!

The SIR-1000 Series

Sony’s solution to today’s complex data acquisition

The SIR-1000 Series recorders are designed to cover a wide range of measurement applications. Newly added to the family are the SIR-1000, which enables direct connection with sensors (ICP* type) and the SIR-1000W, which has the capability of recording wide band signals. The SIR-1000 Series recorders offer a unique feature of simultaneous recording of measurement data and video signal, which opens a door to a new era of measurement and analysis.

The SIR-1000 Series are high-speed digital data recorders which apply Sony’s latest AIT recording technology to meet the ever-advancing needs of measurement applications. SIR-1000/SIR-1000b is capable of recording 20kHz for 16 or 32 channels and expanding the channels up to 128 per recorder. SIR-1000W is a wide band recorder for data of 4 channel-16kHz, 8 channel-80kHz, or 16 channel-10kHz. All the SIR-1000 Series recorders are equipped with independent AD/DA converters with 16-bit linear quantization and 64 time oversampling digital filters for each channel. Together with the SCSI-2 high-speed data transfer, these features allow the recorder to be used as a high performance front end. Data recorded on the SIR-1000 Series can be played back on an AIT streamer drive. This makes the recorder a very user and computer-friendly data collection system.

AIT (Advanced Intelligent Tape) technology

* SIR-1000W does not have playback compatibility with SIR-1000 and SIR-1000b.
** ICP (Integrated Circuit Piezoelectric) is a registered trademark of PCB Piezotronics, Inc.
Wide bandwidth, multi-channels

The number of channels for the SIR-1000 SERIES can be expanded up to 128. (16 channels for SIR-1000 and 2) lower recording is possible regardless of the channel configuration. Synchronous recording and playback up to 8 units are also possible using an optional SIR-100 Multiplayer adapter.

- **SIR-1000/SIR-1000I**: The SIR-1000 SERIES in basic configuration features a 16-channel bandwidth for all 16 channels. In addition, 32 channels of DC to 20kHz analog data can be simultaneously recorded on a single data cartridge by combining the recorder with an optional SCS-32/SCS-S2 Channel Expansion Unit. The number of channels can be further increased by adding channel expansion units. 128 channels of 4kHz analog data can be recorded with a system consisting of the SIR-1000-SIR-1000 and seven SCS-32/SCS-S2.

- **SIR-1000W**: The SIR-1000W is capable of recording 4 channels of DC to 8 kHz or 8 channels of 8kHz analog data. With an optional SCS-16W Channel Expansion Unit the number of channels is expanded to 16 for the bandwidth of 4kHz.

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Time axis conversion

Tape speed can be selected from a wide range of choices both on recording and playback. During recording, for example, tape speeds of 1.7, 1.6, 1.2, 1.0, and 0.8 can be selected to provide from 2 to 32 hours of recording time. Upon playback long recordings can be played back quickly (up to 16 times the recording speed) to decrease data reproduction time or more slowly than the recording speed (down to 1/16th the recording speed) to expand the data time base. Output filters are provided for the whole bandwidth at any tape speed to smooth out the reproduction waveform.

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High-grade recording and playback

The PCM system provides a dynamic range of 80 dB or more (SIR-1000-1000) through 16-bit linear quantization and independent AD/DA conversion on each channel. This not only allows extremely accurate data recording but also facilitates the input range settings. In addition, the adoption of 48 kHz oversampling digital filters provides nearly linear phase characteristics and achieves an inter-channel phase difference of less than 1 degree (SIR-1000-SIR-1000I). The analog input range has a very wide range of up to 133% of the full scale range setting. (The analog characteristic specified in this data sheet is measured with the input DC offset already adjusted within the range of ±100V.) The analog output level can be selected from 91Vpp, 92 Vpp or 85 Vpp (calibrated output), or from 905V pp to 3.5 Vpp (Continuous line output).

The cartridges have newly developed AME (Advanced Metal Evaporated) tape which provides superior output characteristics, reliability and durability. The SIR-1000 SERIES recorders are very sensitive; it is a function that reads the data written on the tape during recording and automatically rewrites the data at once if errors occur. This reduces the noise, virtually zero and greatly improves data integrity. Furthermore, the SIR-1000 SERIES is equipped with an active heat cleaner that automatically detects and cleans the heads to keep them consistently clean even when the SIR-1000 SERIES is used outdoors.

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Versatile control functions

In addition to the key switches on its front panel, the SIR-1000 SERIES is equipped with the SIR-1000-1000I. The analog input range has a very wide range of up to 133% of the full scale range setting. (The analog characteristic specified in this data sheet is measured with the input DC offset already adjusted within the range of ±100V.) The analog output level can be selected from 91Vpp, 92 Vpp or 85 Vpp (calibrated output), or from 905V pp to 3.5 Vpp (Continuous line output).

The SIR-1000 SERIES features a combination of an LCD display panel identical to that on the recorder main unit, including a 6channel bar meter display. The SIR-1000 allows remote monitoring of the recording setup information, tape address information and other information. The RS-232C port is used when controlling the recorder from a host computer, and the relay contact port is used with TTL level external signals. Furthermore, PC/LAN software with SIR-100 can control via NCS.

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Easy setup and monitoring

Care has been taken to ensure easy operation during multi-channel on-site measurement.

- **16-channel bar meter display**: The incoming signal level for 16 channels is displayed on a backlit LCD panel with a wide viewing angle for high visibility outdoors and in dark locations. The display can be switched to easily visualized measured phenomena such as decibel (dB) for noise and vibration and percentage (%) for stress and distortion.
- **Test signals** (internal or external): Four types of test signals (±100% AC sine wave, ±100% DC, ±100% DC and 0V) are stored as digital data and can be used as highly accurate reference signals for the analog channels. Users can also input a reference signal from an external source to channel 1 for distribution to all channels as a reference signal.
- **Calibration**: The analog channel DC offset and gain can be calibrated.
- **Auto range/auto offset**: The analog channel input range can be set and the input offset canceled automatically.
- **Setting for all channels**: Parameters for all channels can be set by pressing one key.
- **High-speed tape search**: This function allows rapid access to target data stored on the tape. Also, storing the Table of Contents (1D) and tape address information in the Memory-In-Cartridge allows even higher speed searches.
- **Self check**: The self diagnostic check can be performed to ensure the operations.

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Pre-trigger recording

The main unit has a built-in, large-capacity buffer memory enabling pre-trigger data of 3 seconds (normal speed) to be recorded on tape. This allows reliable recording of unpredictable events and high-speed data recording.

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Convenient auxiliary channels

In addition to the analog data channels, the SIR-1000 SERIES main unit is equipped with auxiliary channels as standard, allowing other useful information and data to be recorded and played back along with the main data analog.

- **AUX-1 (serial digital channel)**: 10 channels (e.g. pulse, etc.), 32 channels (e.g. time code signals, etc.), 32 channels (e.g. time code signals, etc.), 32 channels (e.g. time code signals, etc.).
- **Voice channel**: voice annotations

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Alternative power sources

The SIR-100 SERIES operates on AC 100-120V (80 to 122 V, 60 or 480 Hz), AC 220-240V (180 to 250 V, 50 or 60 Hz), or external DC 12 V (±10) V power source. Also, large-capacity lithium ion battery pack can be mounted on the data recorder for convenient use outdoors. AC can be backed up by external DC or the battery pack, and external DC can be backed up by the battery pack to allow uninterrupted recording of valuable data.

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High-speed digital data recording

The SIR-100 SERIES can perform normal recording even when exposed to vibrations of ±140g (± 1.5G), 6 to 20kHz. For applications under extreme conditions, the shock mount adapter which can absorb a shock of 981km/s² (±15g, 74 ~ 200kHz) may be used to ensure reliable recording.

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Highly resistant to vibration and shock

The SIR-100 SERIES can perform normal recording even when exposed to vibrations of ±140g (± 1.5G), 6 to 20kHz. For applications under extreme conditions, the shock mount adapter which can absorb a shock of 981km/s² (±15g, 74 ~ 200kHz) may be used to ensure reliable recording.

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Small, lightweight and rugged

The SIR-100 SERIES has dimensions of 340 (W) × 115 (H) × 200 (D) mm and weighs approximately 7.5kg (SIR-1000), 7.8kg (SIR-1000W). In addition, the SIR-100 SERIES features ruggedness that is assured by the use of strong cast aluminum in the unit's casing and steel frame construction for protection in extreme conditions.

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Various option boards

Option slots are provided on the rear panel of the recorder for mounting option boards.

- **SIR-10A/105** (external sync, option) : These option boards are used to input and output a max of 24Mbps digital data.

- **SIR-T/103** (SCSI interface boards) : These option boards are used to input and output a max of 8Mbps digital data.

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Video recording

The SIR-100 SERIES can record video and measurement data simultaneously on a single tape cartridge using optional video board, SIR-VB. The visual image played back on the video channel can be used as complementary analysis information in analyzing the measurement data. Employing MPEG compression scheme high quality video can be recorded and played back. Slow or fast replay is possible by playing back at a different tape speed from that of recording. Still picture is also possible by pressing PAUSE key. On input video data of either NTSC or PAL can be selected manually and video signal is the same format as the input is played back. 3
Supporting the Multi-Channel Operation

Up to 128 channels with a single SIR-1000

The number of channels can be expanded by using the SIR-32/SCX-32 Channel Expansion Unit (option) for SIR-1000, SIR-2000, or SCX-32W Channel Expansion Unit (option) for SIR-1000W. Like the SIR-1000 Series, these expansion units are equipped with 16-bit AD-DA converters and 64 * oversampling digital filters to provide a high-performance front end. Thus, the number of channels can easily be expanded by connecting the expansion unit to the SIR-1000 Series via a supplied connection board and expansion cable.

Channel Expansion Unit (SCX-32)

<table>
<thead>
<tr>
<th>No. of SCX-32</th>
<th>No. of channels</th>
<th>Tape speed</th>
<th>Frequency bandwidth (MHz)</th>
<th>Continuous recording time (Hour)</th>
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<tbody>
<tr>
<td>1</td>
<td>32</td>
<td>1/2X (normal speed) 12</td>
<td>2</td>
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<td>1/4X 6</td>
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<td>1/8X 3</td>
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Supporting a Wide Range of Measurement Fields

Synchronous operation up to 1024 channels

The SIR-1000 Series recorder has a synchronous operation capability. Connecting the two recorders via SCX-10 sync cable (option) allows recording and playback in sync with the clock of one of the units. This makes it possible to simultaneously record and play back up to 256 channels. With use of SIR-32, multi-sync adapter, up to 8 recorders can be synchronized. (SCX-10 cables are necessary for connection.) The number of channels can be expanded to 1024 with the bandwidth per channel being at 5 kHz.

Note: Synchronous operation is possible only for same models of SIR-1000 and SIR-1000W.

Channel configuration

<table>
<thead>
<tr>
<th>No. of channels</th>
<th>Tape speed</th>
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</table>

A portable and space-saving design even with multi-channels

The Channel Expansion Unit features excellent portability with dimensions of 190 (W) × 65 (H) × 250 (D) mm, a weight of approximately 55 kg, and a design that allows integration with the SIR-1000 Series by using a combined frame. In addition, the expansion unit can be mounted below the SIR-1000 Series in an EIA standard 19" rack by using the SIR-1000-20 dedicated rack mount adapters (option). A multichannel configuration can be achieved inside vehicles and other restricted spaces by using the SIR-64-32B dedicated stacking frames (option). This makes it possible to configure 32 to 128 channel configurations with the smallest space and overall weight of any data recorder in this class.

Power supply for channel expansion units

SA-24 is a dedicated power supply when more than two units of SCX-32/32W are used. SAA-24 can supply power up to three SCX-32/32W’s. A lithium ion battery can be mounted on the side and the battery can power the expansion units without shutdown even if AC or DC power supply to the SA-24 has failed.

Supporting a Wide Range of Measurement Fields

SIR-1000 Compact, lightweight and powerful. Suitable for data recording in the field or laboratory

- DC to 28kHz for 16 or 32 channels
- Channel expandability up to 128
- 2 to 32 hour recording and playback with variable tape speeds
- Over 80 dB dynamic range thanks to 16 bit linear quantization
- Compatible with AT/ST stereo via SCX-12L Easy data transfer to a PC
- Small (340×115×80mm) : 13.4 x 4.5 x 3.1" (1kg: 16lb)

- Differential inputs (option)

The SIR-1000 and SCX-32 are equipped with BNC single-ended analog input connectors as standard. However, the SIR-1000 and SCX-32 can have differential inputs as an option to minimize interference from external noise (for SIR-1000: S-100, for SCX-32: S-20).

SIR-1000i Sensor (ICP-type) input capability in addition to all the same features of the SIR-1000

The SIR-1000i has built-in ICP® power supply, which enables direct connection with ICP® sensors. This function saves space at a recording site, making the SIR-1000i a perfect fit in field recording applications. Input mode is switchable between sensor and direct voltage, latter of which is SIR-1000i's standard. Type of input mode is recorded on tape along with other auxiliary information such as input range and time code and is displayed on play back.

- Selectable input mode: SENS or DIRECT
- Extended input range:
  - For SENS: input ±0.1, 0.2, 0.5, 1, 2, 5, 10, 20V±/pk-7 steps
  - For DIRECT: input ±0.1, 0.2, 0.5, 1, 2, 5, 10, 20V±/pk-8 steps
- Compatible with SIR-1000. Data recorded on the SIR-1000 can be played back on the SIR-1000i, vice versa.
- Indicators: Colored LED's for SENS input modes and warning indication.

SIR-1000W High definition recording for wide band data up to 160kHz for 4channels

Recording time of 2 hour at the highest tape speed

The SIR-1000W is designed to record wide band analog data. Data of 4 channel 160kHz, 8 channel 80kHz or 16 channel 40kHz (using SCX-32W) can be recorded. The SIR-1000W boasts a long recording time of 2 hours for wide band frequencies.

- Wide band recording:
  - 4 channels DC to 160kHz, 8 channels DC to 80kHz, 16 channels DC to 40kHz
  - With SCX-32W Channel Expansion Unit recording of 16 channels for DC to 40kHz
- USB digital channel (analog 15-bit mode)
  - High speed sampling at 768kHz for external bit stream data
  - Number of channels up to 4
Integrating the SIR-1000 Series with a Computer

Data transfer to a computer with a variety of interfaces to suit your system.

Data transfer from the SIR-1000 Series to a PC

- **SDX emulation board STB-10, PScan III software: SUK-300**
- **IBM PC/AT or compatible machine**

<table>
<thead>
<tr>
<th>Recorded data</th>
<th>SDX emulation board (STB-10)</th>
</tr>
</thead>
</table>

| (ADAPTEC AOK-WV6 recommended) | Wide-SCSI cable * |

| SCSI host adapter* | PC scan software |

- **IBM PC/AT for compatible machine**

For Windows®95 / Windows NT®

PScan III is software for controlling the SIR-1000 Series from an IBM-PC/AT* compatible computer. This software allows measurement data to be transferred directly to the computer for data processing such as plotting and analysis. Used together with a high-speed SCSI transfer board (STB-30), PScan III allows the SIR-1000 Series to be used as a compact, high-performance front-end, making it possible to display waveforms on and transfer data to a computer. Used together with an SDX emulation board (STB-10) or an AIT streamer, PScan III offers functions for transferring and displaying recorded data and for exporting data to major analysis software.

After data transfer, various analysis such as primary and secondary differentiation can also be performed.

[Supported export formats]
- Binary (Intel)/Binary (Motorola)
- ASCII (Intel) / ASCII (Motorola)
- ASCII (Intel)/WAVE, DAT, MATLAB, Snap-Maker (HEM/STM/SLKno.1.2.3)
- EDIF (Universal file)

[Computer requirements]
- IBM-PC/AT or compatible machine
- OS: Windows 95.0 or later, Windows 98
- CPU: Pentium (66MHz or faster) or higher (Recommended 333MHz)
- Memory: 32Mb or more (128Mb or more recommended)

Note: Specifications are for STB-30

* There may be some restrictions in the data transfer through the STB-30 depending on the computer's performance.

AD converted incoming signals from the SIR-1000 Series to a PC in real time. The SIR-1000 Series as a high performance front end

- **High-speed SCSI transfer board: STB-30, PScan III software: SUK-330**
- **IBM PC/AT or compatible machine**

<table>
<thead>
<tr>
<th>Recorded data</th>
<th>High-speed SCSI transfer board (STB-30)</th>
</tr>
</thead>
</table>

| (ADAPTEC AOK-WV6 recommended) | Wide-SCSI cable * |

| SCSI host adapter* | PC scan software |

- **IBM PC/AT for compatible machine**

PC scan III

For Windows®95 / Windows NT®

PScan III is software for controlling the SIR-1000 Series from an IBM-PC/AT* compatible computer. This software allows measurement data to be transferred directly to the computer for data processing such as plotting and analysis. Used together with a high-speed SCSI transfer board (STB-30), PScan III allows the SIR-1000 Series to be used as a compact, high-performance front-end, making it possible to display waveforms on and transfer data to a computer. Used together with an SDX emulation board (STB-10) or an AIT streamer, PScan III offers functions for transferring and displaying recorded data and for exporting data to major analysis software.

After data transfer, various analysis such as primary and secondary differentiation can also be performed.

[Supported export formats]
- Binary (Intel)/Binary (Motorola)
- ASCII (Intel) / ASCII (Motorola)
- ASCII (Intel)/WAVE, DAT, MATLAB, Snap-Maker (HEM/STM/SLKno.1.2.3)
- EDIF (Universal file)

[Computer requirements]
- IBM-PC/AT or compatible machine
- OS: Windows 95.0 or later, Windows 98
- CPU: Pentium (66MHz or faster) or higher (Recommended 333MHz)
- Memory: 32Mb or more (128Mb or more recommended)

Note: Specifications are for STB-30

* There may be some restrictions in the data transfer through the STB-30 depending on the computer's performance.

AIT converted incoming signals from the SIR-1000 Series to a PC in real time. The SIR-1000 Series as a high performance front end

- **AIT streamer drive (Stand-alone type SDX-S300C), PScan III software: SUK-300**
- **IBM PC/AT or compatible machine**

<table>
<thead>
<tr>
<th>Recorded data</th>
<th>AIT streamer drive (SDX-S300C / stand-alone type)</th>
</tr>
</thead>
</table>

| (ADAPTEC AOK-WV6 recommended) | Wide-SCSI cable * |

| SCSI host adapter* | PC scan software |

- **IBM PC/AT for compatible machine**

For Windows®95 / Windows NT®

PScan III is software for controlling the SIR-1000 Series from an IBM-PC/AT* compatible computer. This software allows measurement data to be transferred directly to the computer for data processing such as plotting and analysis. Used together with a high-speed SCSI transfer board (STB-30), PScan III allows the SIR-1000 Series to be used as a compact, high-performance front-end, making it possible to display waveforms on and transfer data to a computer. Used together with an SDX emulation board (STB-10) or an AIT streamer, PScan III offers functions for transferring and displaying recorded data and for exporting data to major analysis software.

After data transfer, various analysis such as primary and secondary differentiation can also be performed.

[Supported export formats]
- Binary (Intel)/Binary (Motorola)
- ASCII (Intel) / ASCII (Motorola)
- ASCII (Intel)/WAVE, DAT, MATLAB, Snap-Maker (HEM/STM/SLKno.1.2.3)
- EDIF (Universal file)

[Computer requirements]
- IBM-PC/AT or compatible machine
- OS: Windows 95.0 or later, Windows 98
- CPU: Pentium (66MHz or faster) or higher (Recommended 333MHz)
- Memory: 32Mb or more (128Mb or more recommended)

Note: Specifications are for STB-30

* There may be some restrictions in the data transfer through the STB-30 depending on the computer's performance.

SIR-1000 Series computer interface options

- **SDX emulation board package STF-10PK**
  - Consisting of:
    - SDX emulation board (STB-10)
    - PScan software
    - Installation manual

- **High-speed SCSI transfer board STF-30PK**
  - Consisting of:
    - High-speed SCSI transfer board (STB-30)
    - PScan software
    - Installation manual

- **SDO drive transfer package SDO-30PK**
  - Consisting of:
    - AIT streamer (stand-alone type)
    - PScan software
    - Installation manual

For SIR-1000 Series

**Channel expansion unit SCX-32**
- Dimensions: 340 (W) x 460 (H) x 250 (D) mm
- Weight: 3.5kg

**Channel expansion unit SCX-32W**
- Dimensions: 340 (W) x 460 (H) x 250 (D) mm
- Weight: 3.5kg

**Channel expansion unit SCX-16W**
- Dimensions: 340 (W) x 460 (H) x 250 (D) mm
- Weight: 3.5kg

Options

- **Guard frame SHL-10**
  - Dimensions when mounted on the SIR-1000 Series: 352 (W) x 115 (H) x 43 (D) mm

- **Rack mount adapter For SIR-1000 Series: SRT-10**

- **For Channel expansion unit: SRT-20**
  - Can be used in 19-inch 1U rack

- **Multi sync adapter SSB-10**

- **Sync cable SCK-10**

- **Carrying case For SIR-1000 Series: STC-10**

- **For SIR-1000 Series**

- **Channel expansion unit: STC-23**
  - Shipping case (STC-10, STC-30) is also available

- **Power supply unit SAA-24**
  - Power supply for SIR-1000 series can supply up to 3 SIR-30 Series

**Remote control unit SRM-10**
- **Display**: LCD display (10 channels), tape address, input range, warning indicators such as over range, etc.
- **Control**: REC, STOP, PLAY, FF, REW, PAUSE, tape世界上最先进的多功能设备提供高端数据处理功能
- **Interface**: RS-232C, USB, Ethernet, GPIO
- **Remote control**
  - Dimensions: 110 (W) x 65 (H) x 25 (D) mm
  - Weight: approx. 0.5 kg

**Shock mount adapter SMM-10**
- **Installation**: M6, STD-100C
- **Method**: 4 points
- **Base**: 76.2 x 101.6 x 20

**Differential input kit For SIR-1000: SCF-10**
- **For SIR-1000: SDF-20**
- **For SIR-1000: SDF-20**
- **BNC cable length**: 2 m, 1,5C-2V

**Level converter SLS-10**
- Provides TTL/Bipolar interface for input/output
- To be used with SIR-1000 Series

**Video board SSV-10**
- **Television system**: NTSC-M, PAL-B, D, G, H, I, N
- **Data compression**: MPEG2
- **Number of channels**: X1
- **Input/Output connector**: BNC
  - Use in combination of optional board consult your nearest distributor