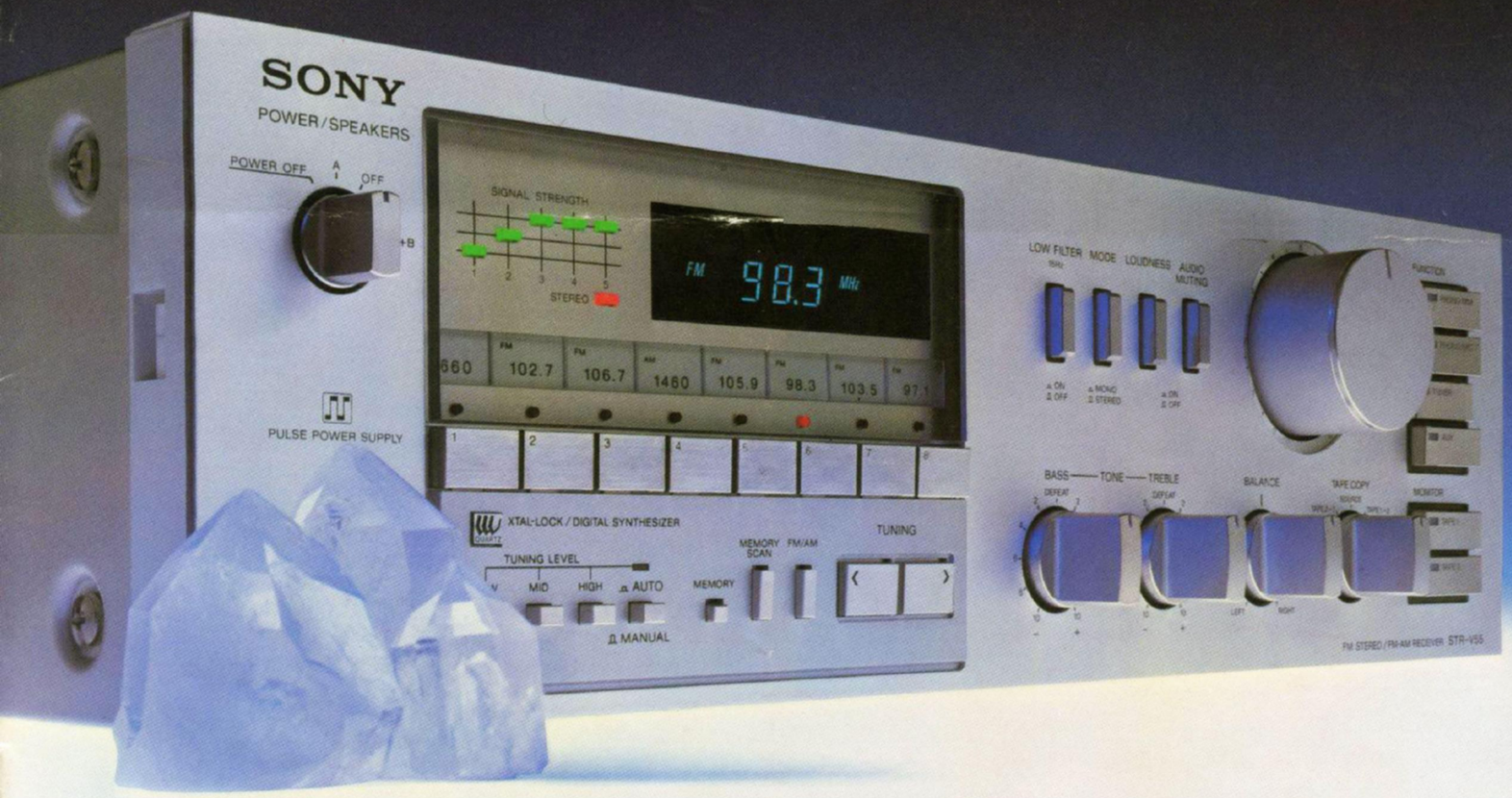
SONY

Receivers



Total-system technology
for uncompromised performance

Sony achievements in every aspect of audio and video reproduction are legendary. The company's success in these fields is no accident, nor is it recent. It arises from three sources. First, the vast Sony research and engineering facilities, among the most sophisticated in the world. Second, the application of 'total-system technology' in the design of all our products. And third, a commitment to translating this approach into technologically advanced instruments for the home—at a cost within the reach of the user. Sony's new series of stereo receivers, the STR-V25, V35, V45, and V55 are outstanding expressions of Sony leadership. They are destined to set new standards of receiver performance in the 1980's.

In recent years, receiver manufacturers have attempted to exceed each other in power output, even at the sacrifice of sound quality. At the same time, most receiver designs have proliferated with all manner of lights, switches, and controls that increase cost, but have little real value. These designs have more to do with a commercial view of the consumer market than with high fidelity performance.

Of course, the Sony STR-V25, V35, V45, and V55 provide ample power and a complete array of functional features and controls. But Sony total-system technology demands more. These receivers have been designed with a view towards those factors that actually contribute to better reproduction of music in the home. Early in the development of these models, Sony engineers recognized a major area of potential improvement, traditionally the receiver's weak link: the tuner section.

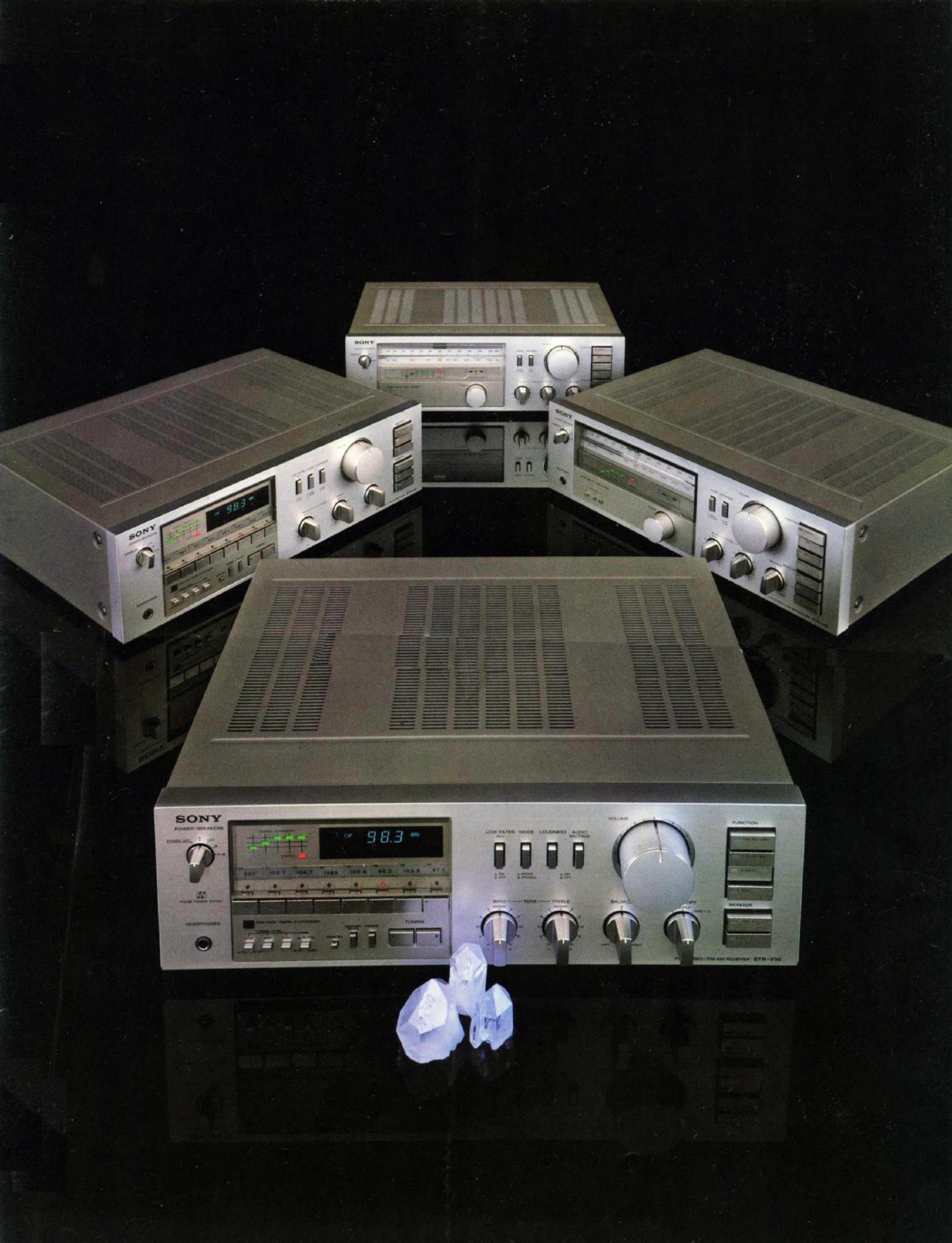
Most listeners understand that FM tuning error produces distortion—they can hear it. To correct for tuning inaccuracy and tuning drift, the modestly priced STR-V25 and V35 incorporate Sony Acute Servo Lock. This system tunes with exceptional precision and locks onto stations without drift or fade. The more expensive STR-V45 and V55 provide the ultimate in tuning precision: quartz frequency synthesis. Frequency synthesis is so accurate that it permits you to tune with the precision of broadcast equipment itself. You get instant, exact tuning, automatically.

The energy, intelligence, and inspiration of Sony engineering is evident in each of these Sony receivers. The model lowest in price, the STR-V25, provides extraordinary performance. As you move up the line, there are additional features, as well as additional power to drive less-efficient loudspeakers.

As you would expect, the entire power amplifier section of each receiver is direct current (DC), and distortion has been reduced to the vanishing point. The phono preamplifier stages all incorporate new, hand-selected integrated circuits, for low-noise reproduction from records. Sony's attention to detail extends to operating refinements. All models have a stepped volume control. The tone controls provide a center defeat position. And functions are selected by push-switches with built-in indicator lamps.

Yet for all their sophistication, all four models retain the traditional advantages of the receiver format. They are all compact, easy to use, and surprisingly affordable. Only Sony total-system technology could provide such high performance at such modest cost.

The following pages provide an in-depth look at how the STR-V25, V35, V45, and V55 perform, and how they satisfy the needs of music lovers the world over.


SONY
98.3
SONY
98.3
SONY
POWER/SPEAKERS
FM 98.3 MHz
LOW FILTER
MODE
LOUDNESS
AUDIO MUTING
VOLUME
FUNCTION
BASS
TONE
TREBLE
BALANCE
MONITOR
HEADPHONES
TUNING
STR-V55

The Sony STR-V25 and STR-V35

Both the Sony STR-V25 and V35 combine a flexible, low-noise preamplifier with a low-distortion, DC power amplifier. The STR-V25 is conservatively rated at 28 watts per channel, the V35 at 35 watts per channel (these ratings are minimum RMS, both channels driven into 8 Ohms from 20 to 20,000Hz, with no more than 0.04% total harmonic distortion). Most important, both receivers boast the superior performance of Acute Servo Lock tuning.

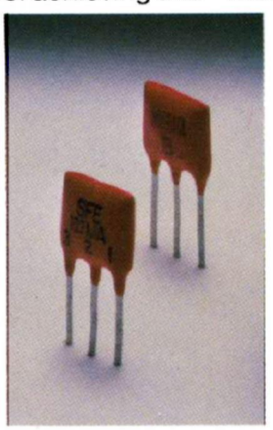
Acute Servo Lock

FM tuning error produces weak reception, noise, and distortion. Some manufacturers have been using automatic frequency control (AFC) to prevent FM stations from drifting. But AFC alone is not precise enough to assure low total harmonic distortion. Sony's Acute Servo Lock not only holds onto stations without drift, but it also goes into operation in a narrow (acute) frequency band for precise tuning *and* low THD.

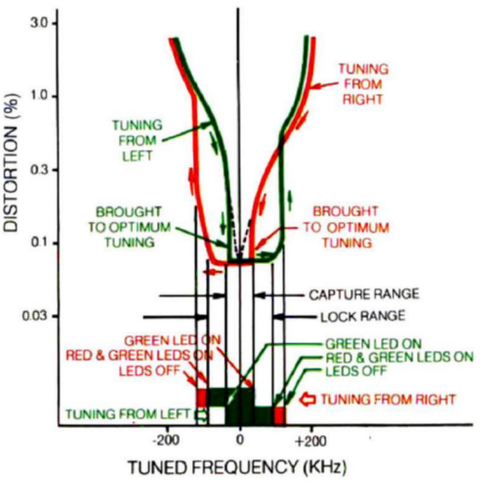
A three-segment LED display makes Acute Servo Lock easy to use. As you tune near a station, one of the outer, red LEDs glows. At the precise center of the broadcast channel, the center green 'locked' LED glows, indicating that the receiver is servo-locked onto the station for drift-free reception and the lowest possible distortion. And Acute Servo Lock continues to hold onto the station *even if you deliberately* turn the tuning knob slightly to the left or right.

Uni-Phase IF Filters

The accuracy of Acute Servo Lock tuning is complemented by the advanced radio frequency (RF), intermediate frequency (IF), and audio frequency (AF) stages of these receivers. The RF mixer and local oscillator, for example, are unitized in a "hybrid" IC for improved stability and unit-to-unit consistency. IF filters must 'select out' the desired station from unwanted stations and interfering noise. The conventional method of achieving this—multiple ceramic filters—causes phase non-linearity. Because phase non-linearity in the IF stage is transposed directly into audible distortion by the detector stage, there has long been a compromise between highest selectivity and lowest distortion. Sony's Uni-Phase filters eliminate the need to compromise: they achieve good selectivity *and* precise phase linearity for low distortion.



The STR-V25 and V35 incorporate phase-locked loop (PLL) multiplex decoding, for high-quality FM stereo performance under the widest variety of operating conditions. As a result, stereo separation at 1kHz is rated at 45dB, better than most stereo broadcasts. These receivers achieve superior AM performance, as well. AM selectivity is 35dB, while signal-to-noise ratio is better than 50dB.



The STR-V25 and STR-V35 lock in and hold onto FM stations with Acute Servo Lock tuning.

Low Noise, High Overload Phono IC

Sony has matched the Acute Servo Lock tuner sections of the STR-V25 and V35 to extraordinarily accurate amplifier sections. The phono preamplifier stage uses polypropylene equalization capacitors for their superior sonic performance. Although many modern phono preamplifiers achieve low noise, Sony total-system

New standards in performance and value

technology demands more. A new integrated circuit (IC) achieves an ideal balance of low noise *and* high overload. The phono noise of the V25 is a full 77dB below a 2.5mV reference—that's 89dB below the commonly used 10mV reference. And the noise of the V35 is lower still. Yet these phono stages can withstand inputs of up to 150mV without overload distortion. This wide range enables the V25 and V35 to be used with all of today's high-output phono cartridges. The resulting sound is clean and refreshingly free of both background noise and overload distortion.

As a further assurance of low distortion, the preamplifier/tuner power supply is isolated from the main amplifier power supply by an FET stage. Thus, preamplifier and tuner operating current is maintained, even during loud musical passages.

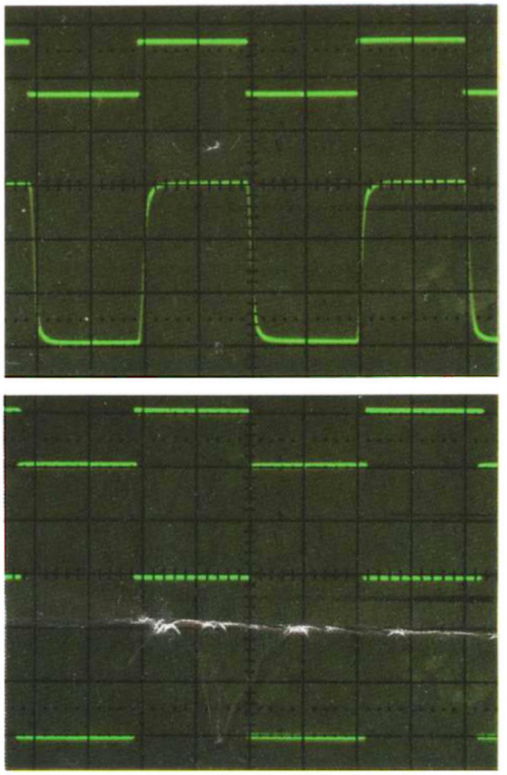
Low-Distortion DC Power Amplifier

To achieve wide bandwidth and low distortion, the V25 and V35 have a pure complementary-symmetry DC output stage. Both receivers achieve low total harmonic distortion of 0.04% at rated output, for any frequency from 20Hz to 20,000Hz.

Because of their extended low frequency response, DC designs can amplify unwanted direct current that may be generated internally or appear in the input signal. For this reason, Sony has exercised particular care in creating the DC amplifier sections of these receivers. The two transistors at the input of the differential amplifier, for example, are 'thermocoupled,' joined together in a single container. This effectively prevents internally generated DC offset, despite changes in temperature. In addition, the receivers detect and correct for unwanted direct current in the input signal. In this way, Sony has combined the superior sound of DC amplification with the reliability of conventional designs.

Overload Protection

Both the amplifier sections and the speakers they drive are protected from overload by sophisticated temperature, voltage, and direct-current detecting electronics. A fast-acting relay disconnects the output in the event of overload.



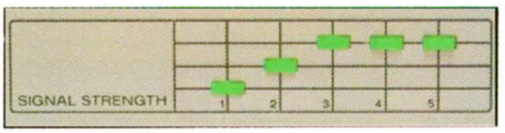
These two oscillographs show how DC design helps maintain the signal waveform. On top is a 20Hz square wave as reproduced by a conventional power amplifier. Below, a Sony DC amplifier provides much truer reproduction of the same signal.

Precise Controls, Convenient Features

The V25 and V35 provide sensitive and flexible control of your sound system. Sony's attention to detail is reflected in the smooth and positive action of the controls. The electrical 'taper' of the volume control, for example, is specially contoured for wide usable range. And the control's detents help you return to the same settings again and again. The bass and treble controls provide up to 10dB boost and cut. Unlike other tone controls, these are taken completely out of the circuit—for the lowest possible distortion—when set to the 'defeat' position. The loudness control enhances both bass *and* treble to restore natural tonal balance at low volume levels.

The STR-V25 provides FM muting to eliminate the rushing noise commonly heard between FM stations. The muting can be switched off to permit the tuning of weaker stations. The V35 offers 'high' and 'low' levels of muting, in addition to the 'off' position.

Both the V25 and the V35 incorporate a five-segment LED signal-strength display, to help you orient your FM antenna for optimum reception of each station. This is particularly important in weak-signal areas.



The LED signal-strength display helps you orient your antenna for optimum reception.

Inputs and Outputs

The V25 and V35 have a full complement of inputs and outputs. In addition to the phono inputs, there is provision for monitoring two tape decks, and a tape copy switch. The auxiliary input provides connection for the output of a television set, an additional tape deck, or any other, similar signal source. The function and tape monitor controls are push-switches for direct access to each mode. The switches feature built-in indicator lamps for quick identification of the amplifier's status.

The output terminals of the V25 and V35 provide connection for two pairs of speaker systems, which can be used separately or simultaneously. These terminals use a new thumbscrew clamp for quick, secure connections. And they accept heavy-gauge speaker wires with ease. A headphone jack and a speakers-off position allow for private listening with headphones.

Total Performance

With their flexible, low-noise preamplifiers, low-distortion DC power amplifiers, and Acute Servo Lock tuners, the Sony STR-V25 and V35 meet the exacting requirements of their designers. These receivers offer superior reproduction of musical sound at prices that make them readily accessible to the discriminating music lover.

The Sony STR-V55

Sony design and engineering at its finest

it will always be tuned to the same station as when last turned off. You can even unplug the V45, and all eight station pre-sets will be maintained.

As an additional convenience, a panel slides out of the V45 to accept tiny station cards. These cards, visible in the front panel, above the memory buttons, serve to indicate the station selected by each button.

Uncompromised Amplifier Section

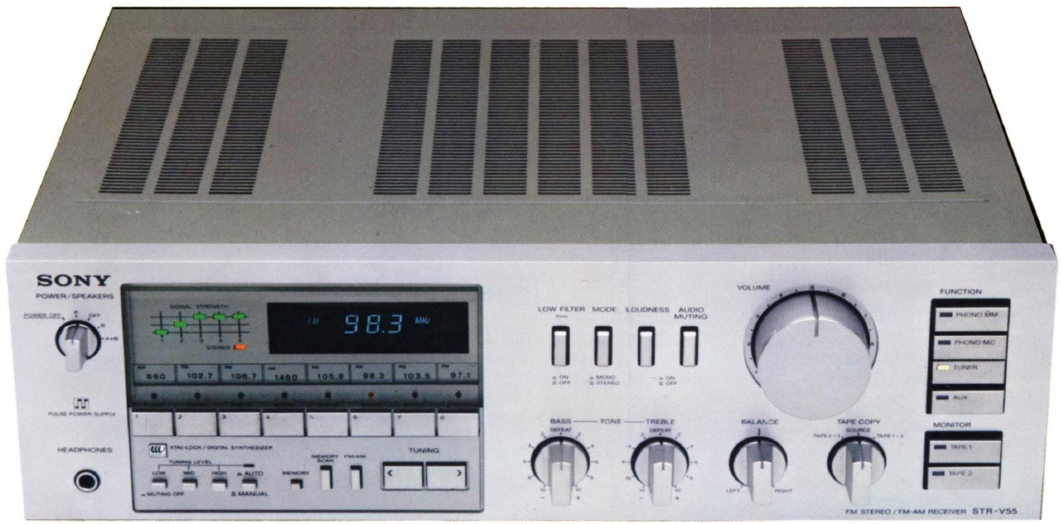
The accuracy of frequency synthesis tuning in the STR-V45 is matched by the amplifier section. The phono preamplifier incorporates a hand-selected, low noise, high-overload IC. The DC power amplifier has exceptional bandwidth, and total harmonic distortion of only 0.04% at rated output, from 20 to 20,000Hz. The amplifier and speakers are protected by overload-detecting electronics. A fast-acting relay disconnects the output in the event of overload.

Of course, the V45 has a full range of inputs, outputs, and controls. These include a detented volume control, bass and treble controls with defeat position, as well as function, tape monitor, and tape copy push-switches. The V45 also features a carefully-designed low filter that takes effect at 15Hz. A sharp 12dB-per-octave slope enables the filter to eliminate unwanted subsonic signals.

The STR-V45 provides inputs for a turntable, an auxiliary source, and two tape decks—with monitoring capability for both. You can even dub from one tape deck to the other. There are connections for two pairs of speaker systems that can be used separately or simultaneously. And the V45 provides for private listening with headphones.

Total Performance

The Sony STR-V45 is a distinguished example of total-system technology. The precision of its phono preamplifier, its quartz frequency synthesis tuner, and its DC power amplifier make it a component that offers unsurpassed performance and exceptional value.



The STR-V55 is a classic study in amplifier innovation, and an expression of advanced technology in the service of music. The V55 is rated at 55 watts per channel (minimum RMS, both channels driven into 8 Ohms from 20 to 20,000Hz, with no more than 0.02% total harmonic distortion). The amplifier section, together with the remarkable frequency synthesis tuner, makes the V55 a particularly proud example of Sony total-system technology.

Quartz Frequency Synthesis Tuning

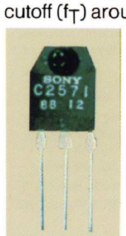
As you would expect, the STR-V55 incorporates Sony's X-tal Lock frequency synthesis tuner section for unsurpassed tuning accuracy. It offers manual, automatic, memory pre-set, and memory scan tuning. And the V55 has the precision of Uni-Phase IF filters, and phase-locked loop multiplex decoding.

Low-TIM Amplifier Design

The amplifier section of the V55 reflects the latest understandings about dynamic distortion, especially Transient Intermodulation Distortion (TIM). TIM occurs when the high-frequency, high-level capabilities of an amplifier are insufficient to meet the demands of musical transients. Ironically, negative feedback, which reduces THD and IM, can exaggerate TIM. There are three methods of controlling TIM: improving the high-frequency response of the output transistors, reducing negative feedback, and improving the power supply. The V55 does all three.

HIGH-f_T Output Transistors

Conventional power output transistors have a high-frequency cutoff (f_T) around 15MHz. Sony has



produced a new power output device: the HIGH-f_T transistor. This HIGH-f_T device, composed of multiple miniature transistors connected in parallel, offers greater stability, lower distortion, and an f_T of between 50 and 80MHz.

These HIGH-f_T transistors are cooled by light, efficient, 'high-exchange' heat sinks, for improved thermal operation.

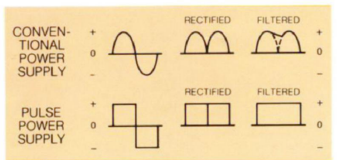
The power amplifier of the V55 holds THD and IM below 0.02%. But Sony total-system technology goes beyond making the V55 among the cleanest receivers in the world, as evidenced by its specifications. The V55 achieves these impressive ratings using low negative feedback. Thus, TIM is minimized, as well. The resulting sound is transparent and open, with musical transients reproduced cleanly and in their entirety.

The Sony Pulse Power Supply

The power supply can degrade sound quality directly or indirectly. The STR-V55 uses Sony's innovative Pulse Power Supply (PPS), for dramatically reduced 60Hz radiation, voltage fluctuation, and irregularity (ripple). Where a conventional power supply feeds the AC line input through a 60Hz transformer, the PPS rectifies the AC line directly into DC. Next the PPS oscillator converts the DC into 20kHz pulses. The transformer of the PPS steps these pulses down to the operating voltages of the V55.

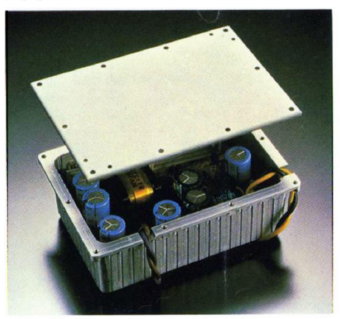
Because high frequency transformers require fewer windings, the PPS transformer is 1/50 the size of conventional units. And because the PPS transformer operates at 20kHz, it eliminates the possibility of 60Hz hum and noise interaction. To reduce electromagnetic radiation, the entire PPS is encapsulated in metal.

The output of the PPS is rectified into DC, as with a conventional power supply. But the PPS waveform is smoother, and substantially easier to filter.



The waveform of the Pulse Power Supply is inherently smoother than that of a conventional power supply.

The greatest advantage of the PPS is its superior ability to provide voltage on demand. With a conventional supply, voltage varies by as much as 15% between high and low power levels. Toroidal transformers offer better regulation: 10%. The Sony PPS permits only 7% variation, to help provide the rich, powerful sound of the STR-V55.



To limit hum radiation, the Pulse Power Supply is encapsulated in metal.

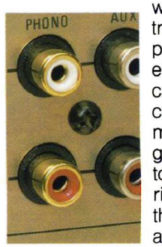
Pre Out/Main In Jacks

The STR-V55 allows you to disconnect the preamplifier section output from the power amplifier section input. Thus, you can connect speaker equalizers or other signal processors without occupying tape input and output positions; or find extra flexibility with the V55 as a tuner-preamplifier connected to an external power amplifier, or as the heart of a bi-amplified system.

The V55 and the loudspeakers it drives are protected by current-detecting electronics. At the first sign of trouble, a relay disconnects the output.

Built-In Moving Coil Capability

The phono equalization IC of the V55 is quiet enough to amplify the very low output of moving coil (MC) cartridges, yet it handles moving magnet (MM) signals of up to 200mV, without overload. You can connect MC cartridges directly to the V55,



without an external transformer or pre-preamplifier. With either MC or MM cartridges you hear clear, undistorted music against a background of silence. And to maintain the integrity of the signal path, the phono input jacks are plated with gold.

Professional-Grade Flexibility

The STR-V55 also provides inputs for an auxiliary source, and two tape decks. You can copy tapes from deck to deck in either direction. There are connections for two pairs of speaker systems, and for headphones.

Controls include a detented volume control, bass and treble controls with center defeat position, as well as function and tape monitor push-switches. The low filter takes effect at 15Hz with a sharp, 12dB-per-octave slope. A special audio mute feature allows you to lower the volume by 20dB, without altering the original volume control setting.

Total Performance

The STR-V55 epitomizes the Sony total-system philosophy. Its careful balance of amplifier, preamplifier, and tuner technology, its unsurpassed performance, and its affordable price, distinguish the V55 from any conventional component. The V55 is destined to become the standard for receiver performance in the 1980's.

Features	STR-V25	STR-V35	STR-V45	STR-V55
Power Amplifier Design	Direct Current (DC)	Direct Current (DC)	Direct Current (DC)	Direct Current (DC)
Power Supply	El-Core Transformer	El-Core Transformer	El-Core Transformer	Sony Pulse Power Supply (PPS)
FET Buffer Power Supply Circuit	Yes	Yes	Yes	Yes
Output Devices	Bipolar	Bipolar	Bipolar	Sony HIGH-f_T Bipolar
High Exchange Heat Sink Design	–	Yes	Yes	Yes
Electronic Relay Protection	Yes	Yes	Yes	Yes
Low-Noise Phono Eq. Integrated Circuit	Yes	Yes	Yes	Yes
Moving Coil Phono Input	–	–	–	Yes, Gold-plated jacks
Auxiliary Input	Yes	Yes	Yes	Yes
Electronic Tone Defeat	Yes	Yes	Yes	Yes
Switchable Low Filter	–	–	Yes	Yes
Switchable Loudness Compensation	Yes	Yes	Yes	Yes
Detented Volume Control	Yes	Yes	Yes	Yes
Audio Muting (20dB)	–	–	–	Yes
Tape Monitors	Two	Two	Two	Two
Tape Copying	1 to 2	1 to 2	1 to 2	1 to 2, 2 to 1
Function Selection Pushbuttons with Indicator Lamps	Yes	Yes	Yes	Yes
Headphone Jack	Yes	Yes	Yes	Yes
Speaker Selector Switch	A, Off, B, A+B	A, Off, B, A+B	A, Off, B, A+B	A, Off, B, A+B
Pre Out/Main In Jacks	–	–	–	Yes
AC Convenience Outlets	Two	Two	Two	Two
Tuning System	Acute Servo Lock	Acute Servo Lock	X-tal Lock Frequency Synthesis	X-tal Lock Frequency Synthesis
Tuning Scale	Analog, FM Linear	Analog, FM Linear	Fluorescent Digital	Fluorescent Digital
Radio-Frequency (RF) Front End	Three-gang variable capacitor, FET	Three-gang variable capacitor, FET	Varactor diode, FET	Varactor diode, FET
Uni-Phase IF Filters	Two	Two	Three	Three
Phase-Locked Loop Multiplex Decoder	Yes	Yes	Yes	Yes
Automatic Tuning	–	–	Yes	Yes
Manual 'Step' Tuning	–	–	Yes	Yes
Memory Pre-Set Stations (Non-Volatile)	–	–	Eight	Eight
Memory Scan	–	–	Yes	Yes
LED Signal-Strength Indication	Yes	Yes	Yes	Yes
Three-Position Tuning Level	–	–	Yes	Yes
Station Insert Cards	–	–	Yes	Yes
Feather-Touch Tuning Controls	–	–	Yes	Yes
Stereo/Mono Switch	Yes	Yes	Yes	Yes
Adjustable Ferrite Bar AM Antenna	Yes	Yes	Yes	Yes
External FM 300 and 75 Ohm Antenna Terminals	Yes	Yes	Yes	Yes
External AM Antenna Terminal	Yes	Yes	Yes	Yes

Specifications

	STR-V25	STR-V35	STR-V45	STR-V55
AMPLIFIER SECTION				
Continuous Power Output, RMS, both channels driven into 8 Ohms from 20Hz to 20,000Hz, at no more than rated total harmonic distortion	28 watts	35 watts	40 watts	55 watts
Total Harmonic Distortion, 20Hz to 20,000Hz, at rated output, 8 Ohms	0.04%	0.04%	0.04%	0.02% (0.006% preamp @ 2V)
Intermodulation Distortion, 60Hz: 7kHz::4:1, at rated output, 8 Ohms	0.04%	0.04%	0.04%	0.02%
Power Amplifier Frequency Response	–	–	–	DC-40kHz, +0, −1dB
Power Amplifier Input Sensitivity and Impedance	–	–	–	1.0V, 50k Ohms
Power Amplifier Signal-to-Noise Ratio (IHF-A)	–	–	–	116dB
Damping Factor, at 1kHz, 8 Ohms	40	40	50	50
PREAMPLIFIER SECTION				
Frequency Response Phono, RIAA standard curve Tape, Aux	 ±0.5dB 5Hz-70kHz, −1dB	 ±0.5dB 5Hz-70kHz, −1dB	 ±0.5dB 5Hz-50kHz, −1dB	 ±0.5dB 5Hz-200kHz, −1dB
Input Sensitivity and Impedance Phono, MM Phono, MC Tape, Aux	 2.5mV, 50k Ohms – 150mV, 50k Ohms	 2.5mV, 50k Ohms – 150mV, 50k Ohms	 2.5mV, 50k Ohms – 150mV, 50k Ohms	 2.5mV, 50k Ohms 0.25mV, 100 Ohms 150mV, 50k Ohms
Maximum Input Level (at 1kHz) Phono, MM Phono, MC	 150mV –	 150mV –	 200mV –	 200mV 20mV
Signal-to-Noise Ratio (IHF-A) Phono, MM @ 2.5mV input Phono, MM @ 5.0mV input Phono, MC @ 0.125mV input Phono, MC @ 0.5mV input Tape, Aux @ 150mV input	 77dB 83dB – – 95dB	 79dB 85dB – – 95dB	 80dB 86dB – – 95dB	 80dB 86dB 65dB 77dB 95dB
Output Level and Load Impedance Record Out, 1 & 2 Preamplifier Out	 150mV, 10k Ohms min. –	 150mV, 10k Ohms min. –	 150mV, 10k Ohms min. –	 150mV, 10k Ohms min. 1.5V, 2k Ohms min.
Tone Control Range Bass, at 50Hz Treble, at 20kHz	 ±10dB ±10dB	 ±10dB ±10dB	 ±10dB ±10dB	 ±10dB ±10dB
Loudness Control Effect, at −30dB attenuation, 50Hz/10kHz	+10dB/+3dB	+10dB/+3dB	+10dB/+3dB	+10dB/+3dB
Low Filter Effect	–	–	12dB per octave at 15Hz	12dB per octave at 15Hz
TUNER SECTION				
Quieting Sensitivity 30dB, Mono 50dB, Mono 50dB, Stereo	 10.3dBf(1.8uV) 16.1dBf(3.5uV) 36.1dBf(35uV)	 10.3dBf(1.8uV) 16.1dBf(3.5uV) 36.1dBf(35uV)	 10.3dBf(1.8uV) 16.1dBf(3.5uV) 36.1dBf(35uV)	 10.3dBf(1.8uV) 16.1dBf(3.5uV) 36.1dBf(35uV)
Signal-to-Noise Ratio, Mono/Stereo	75dB/70dB	75dB/70dB	75dB/70dB	75dB/70dB
Total Harmonic Distortion 100Hz, Mono/Stereo 1kHz, Mono/Stereo 6kHz, Mono/Stereo	 0.15%/0.20% 0.10%/0.15% 0.15%/0.20%	 0.15%/0.20% 0.10%/0.15% 0.15%/0.20%	 0.10%/0.20% 0.10%/0.15% 0.15%/0.20%	 0.10%/0.20% 0.10%/0.15% 0.15%/0.20%
Alternate Channel Selectivity, 400kHz	60dB	60dB	80dB	80dB
Capture Ratio	1.5dB	1.5dB	1.0dB	1.0dB
Frequency Response	30Hz-15kHz, ±1.0dB	30Hz-15kHz, ±1.0dB	30Hz-15kHz, +0.5, −1.5dB	30Hz-15kHz, +0.5, −1.5dB
Stereo Separation 100Hz 1kHz 10kHz	 40dB 45dB 35dB	 40dB 45dB 35dB	 40dB 45dB 35dB	 40dB 45dB 35dB
AM Suppression	50dB	50dB	50dB	50dB
Image Rejection	45dB	45dB	85dB	85dB
Spurious Response	75dB	75dB	95dB	95dB
IF Response	90dB	90dB	100dB	100dB
Sub-Carrier Response	40dB	40dB	40dB	40dB
RF Intermodulation	65dB	65dB	65dB	65dB
Muting and Tuning Threshold	25dBf	25/45dBf	25/40/60dBf	25/40/60dBf
AM Sensitivity Built-In Antenna External Antenna	 300uV/m 100uV/m	 300uV/m 100uV/m	 300uV/m 100uV/m	 300uV/m 100uV/m
AM Signal-to-Noise Ratio (@ 50mV/m)	50dB	50dB	50dB	50dB
AM Total Harmonic Distortion, (@ 50mV/m, 400Hz)	0.5%	0.5%	0.5%	0.5%
AM Selectivity	35dB	35dB	40dB	40dB
AM Image Rejection	40dB	40dB	40dB	40dB
AM IF Response	35dB	35dB	40dB	40dB
GENERAL				
Power Requirements, Consumption (UL)	AC-120V, 60Hz, 80 watts max.	AC-120V, 60Hz, 95 watts max.	AC-120V, 60Hz, 115 watts max.	AC-120V, 60Hz, 125 watts max.
Power Outlets	1 sw, 100W; 1 unsw, 300W	1 sw, 100W; 1 unsw, 300W	1 sw, 100W; 1 unsw, 300W	1 sw, 100W; 1 unsw, 300W
Dimensions	5¼"H x 17"W x 14⅞"D 135 x 430 x 380mm	5¼"H x 17"W x 14⅞"D 135 x 430 x 380mm	5¼"H x 17"W x 14⅞"D 135 x 430 x 380mm	5¼"H x 17"W x 14⅞"D 135 x 430 x 380mm
Weight	17 lbs. (7.7 kg)	18 lbs., 12 oz. (8.5 kg)	18 lbs., 12 oz. (8.5 kg)	15 lbs. (6.8 kg)

SONY®

High Fidelity Components

Features and specifications subject to change without notice.

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