

Welcome to the uni

The Compact Sy40 is a new professional digital audio mixing console for live applications from Innova SON. Its high degree of flexibility means it is equally at home producing a mix for front-of-house, stereo in-ear monitors or wedges. The Compact Sy40 is also the ideal console for an outside broadcast van or for recording live events.



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verse of Innova SON

The emphasis on quality throughout the design and manufacturing processes, coupled with its direct relationship with the other Innova SON consoles, gives the Compact Sy40 unequalled audio performance, ergonomics and ease of use. No wonder it is already the standard digital audio console in its category.

Not just a console

All man

To the usual features of an analog console, the Compact Sy40 adds the Stage Box with digital audio transmission, input and output grids, and the fantastic Hyper-Drive processor. This is a complete system, combining the best of the analog and digital worlds:

• 8 to 64 mic/line-level physical inputs, plus 8 line level inputs, which can be assigned to any channel and routed to the GrAux and Master busses

- 40 input channels, 24 mono + 8 stereo faders
- 12 stereo busses with 12 faders

 independent pre/post fader and panning for each channel and bus

- subgroup routing of busses to the masters
- 3 separate L, R, M/C master faders

• 8 to 64 physical outputs with or without Hyper-Drive audio processing (EQ, dynamics, delay, level)

choice between analog, AES digital or both for inputs and outputs

• dynamic processing and equalization on all input channels and processed outputs, plus delay (Hyper-Drive)

 stereo monitoring with PFL, AFL and APL (After Processing Level) listening on headphones or via allocated outputs

• optional Stage Box (digital splitter) enables the inputs to be displaced to the stage, close to the sound sources

- up to 500 m of coaxial cable
- gain and 48V can be remotely controlled by the console
- intuitive, simple, user-friendly interface provided by the free, continuously developing software package Sensoft

• total recall: save configurations for instant recall or reset of all their parameters

 automation includes snapshot or fade-type sequences of console states, synchronised with MTC or MIDI events

• powerful functions combining the advantages of analog, digital and automation

• robust construction with reduced size and weight for economical use

• compatible with all other consoles in the Sensory® range from Innova SON



A console with live

Although the Compact Sy40 is the entry-level solution in the Innova SON range of consoles - it shares the same intuitive, user-friendly interface as the other Innova SON desks.



mixing in its genes

For live work, you need to be able to forget about the tools and concentrate on achieving a quality mix efficiently. This goal can be achieved quickly and without compromise in even the most complex of productions with a high-powered console on which you can be operational in minutes.



Legendary ease of use

Take a look at a Compact Sy40 – everything you need is there. Each function has its own switch, fader or control knob. A foldaway screen gives an overview of the mix and provides the interface with the system. Everything is within reach: all the controls for changing parameters are available immediately with no need for menus. The designers have striven to make the commands intuitive, geared to live work and consistent with the system's overall logic. The result is an acclaimed ease of use - even from first time Innova SON users!

Within a few minutes of use, you can grasp the basics of the Compact Sy40 and quickly begin using it to its full potential. You will immediately appreciate its small size and weight, its reliability... and its sound.

Audio performance with integrated processing

From the moment the first microphone is plugged in until the final mix is output, you are in the world of digital sound. Parallel architecture ensures that propagation times remain fixed whatever the conditions, which is critical for live sound. The desk's other audio characteristics, such as the quality of the microphone preamps, place the Compact Sy40 firmly in the exclusive group of top-of-the-range consoles.

Additionally, the Compact Sy40 has a large number of internal processing resources which remove the need for almost all peripherals..

• For each input channel: gain and 48V for microphone preamps, plus phasing, low-cut filter, gate and compressor, 4-filter full-band parametric equalization, pre/post output, and dependent or independent pre/post panning per bus.

• For each physical output with Hyper-Drive: gate, compressor, 8-filter full-band parametric equalization, delay up to 1.35 second, and output level adjustment.

Setting up the mix requires convenient, quick routing and signal distribution functions. New facilities that do not exist in analog systems, such as storing all settings for recall at any time, make life much easier and open the door to new mixing possibilities. The output distribution grid also makes it possible to define direct inputs/outputs and insert points.

At showtime, the automation functions let you call up pages recorded during rehearsals or soundchecks. Using these functions, you can choose to make page changes manually or to control them using MIDI events or MTC frames. You can create a set list before the show, organizing the order and timing of the pages, and then run through it using your preferred automation mode. During the show you can alter the set list at any time and control the mix precisely.

Modularity

Digital live mi<u>xing</u>

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Innova SON's modular architecture offers another considerable advantage – you can use all the digital audio input/output modules in the Sensory® range of consoles. Some modules can also be placed on stage in the Stage Box, using digital transmission via coaxial cable.

Existential question

Can you live without a Compact Sy40? If you try it, you may well find you can no longer do without! So try it and see!

desk

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PATCH

IN

Input signal pat

Microphones: preamp, gain, 48V, phase, insert

To ensure the best sound quality, the first step is to make sure that the input signals are carefully preamplified before being converted from analogue to digital. As the path of the signal within the console is entirely digital, there will be no loss of sound quality due to internal processing. Our engineers have spent a great deal of time designing top-of-the-range micro-phone preamps and converters that provide optimum quality and listening comfort for each of the various types of sounds used in today's productions. These preamps fully satisfy the necessary physical criteria preamp gain for each mic/line input, local or remote, of –27 to +63 dB.

The stage hands have not been forgotten, either: mic inputs are identified in the Stage Box with LEDs indicating the presence of 48V on the signal, its level and any peaking. This saves time and makes life much easier.



The console has been designed to make even the most detailed level of the mix controllable. The Compact Sy40 can mix 40 input channels simultaneously, with 24 mono channels and 8 stereo channels. The console can receive up to 32 local mic/line inputs or up to 64 with the Stage Box, plus 8 line-level inputs, each of which can be allocated to one of the 40 input channels using the Patch IN grid.

No more manual patch changes during a show or between two artists! The microphones are connected to the input modules once and once only, regardless of if they are located in the console or in the Stage Box.. Innova SON has created a digital distribution grid (Patch IN), which takes its place between the physical inputs – local or remote – and the console's channels. The grid is accessed using an intuitive and easy-to-read screen. The Patch IN grid, along with the gain, 48V, mute and dynamic processing settings, are stored in the stage pages, which can be called up at any time.

For example, if a guitarist plays several instruments during a show, they can all be connected once, with a page being defined for each instrument used and assigned to the "guitar" channel. The page can even be changed in the middle of the performance! As you may have guessed, the Patch IN grid is not the only thing that can be saved in the stage pages: all the console's parameters are stored here too, with each page acting as a snapshot of all the settings, which can be called up at any time.

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Input channel, motorized fader, label, mute, cue, VU-meter

All the input channels are equipped with the essential controls that enable them to be monitored and adjusted instantly: Fader, Mute and Cue. The channel label displays the instrument name, which the user has entered, and the selection switch gives access to the channel's settings. A VU-meter shows the signal level before or after processing, depending on the user's preference, and also serves as an indication of an opened or closed noise gate.

Channel settings: preamp, phase, dynamics, equalization

Accessing and viewing the parameters of a whole channel is immediate – just press its Select switch. If a channel is in stereo, each time the Select key is pressed, the screen display will alternate between the left and right channels.

The Channel Control panel contains all the settings for the preamp, dynamics and equalization. All changes are immediately applied to the sound and reflected on the screen. This gives an idea of the power and simplicity of the Compact Sy40 method. There is no need for submenus or complex key combinations - the logic of the live console provides simple, error-free access, right from the start. The left part of the Channel Control panel gives direct control over the preamp, with gain from -27 to +63 dB, phantom power, phase inversion and the effect insertion point. Note the wide dynamic range, which will satisfy both those who set fader gain to 0 dB and those who want to get the maximum number of bits from the converters.

For dynamic processing, 8 knobs and switches enable instant adjustment of the Gate/Expander and Compressor/Limiter parameters, while the screen displays the effect on the signal. Gain reductions can be displayed for all channels simultaneously.

To achieve the goal of total flexibility, the equalization processor provides 4 parametric bands as well as a low-cut filter. The four bands cover the whole spectrum from 20 Hz to 20 kHz, with \pm 15 dB of gain and from 1/8 to 8 octaves for the Q factor. The low-cut filter offers 12 cut-off frequencies at 12 dB/octave. Using this section, the user can sculpt any correction curve, with the additional possibility of having each gain knob reach a "notch" position – in this case, the band filter acts as an attenuator of 50 dB in proportion with the variation of the Q factor!



Ouput signal path

Pre/post fader, routing and universal busses

Routing channels to the output busses is just as easy. Just hold down the channel's Select button and press the Select buttons for the required busses. Or alternatively, select a bus and then choose the channels to be routed to it. There is also a simple shortcut which makes it even quicker to make assignments when routing several consecutive channels to a bus.

A channel's Select button also gives easy access to the Aux Sends. After pressing the Select button, the Aux faders will show the levels at which the channel is sent to the busses. When a bus is selected, its fader shows the general level of the bus, and the input faders show the levels of the Aux Sends for each channel being routed to that bus. The selected mix can now be viewed immediately, arranged horizontally. This is extremely useful for monitor mixing.



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Panning for channels and busses

All channels, both mono and stereo, have a panning setting, which is either dependent on the Master setting (channels entering the GrAux busses will all have the same panning) or independent of the Master setting (each channel will have independent panning settings in each GrAux). There is also a balance setting for the stereo channels. These adjustments can be made immediately using the shortcut, or even more powerfully from the Pan screen. This screen also gives full access to each channel's pre/post definitions for each bus. The Compact Sy40 is equally at home mixing for front-of-house and for monitors.

The Master bus has three mono faders: Left, Right and Center/Mono. The 12 GrAux busses each have a stereo fader. Like the Channel faders, all of the Master Bus faders and GrAux Bus faders are fully automated. These busses are controlled in the same way as the channels, with Select, Mute, Cue and Label buttons. Pressing the Select button gives instant access to all the bus parameters via the Channel Control panel. Nothing could be more intuitive - this process is identical for the inputs, and is still just as simple!

The monitoring bus provides listening modes for monitoring inputs as PFL (pre-fader level) or AFL (after fader level), and outputs as PFL, AFL and APL (after processing level). The features are completed by adjustments of the solo and automatic attenuation levels. You can also patch physical outputs to the monitoring bus, making it possible to listen via a speaker circuit or an in-ear monitor system.



Patch OUT : digital distribution grid for outputs, Direct I/O and inserts

The Patch OUT grid lets you create insert points and allocate physical inputs to Direct OUTs. It also enables you to assign the Master, GrAux and monitoring busses to the physical outputs.

The Master, GrAux and monitoring busses are linked to physical outputs using the output distribution grid (Patch OUT). As with the inputs, the busses are separated from the physical outputs, making it possible to allocate a single bus to several outputs.





Hyper-Drive

When the outputs are equipped with Hyper-Drive audio processing (XO-8D, DO-8X), each output has a complete dynamic processing section – gate and compressor, fully sweepable parametric equalization with eight bands, delay of up to 1.35 second and output level adjustment from +10.5 dBu to +22 dBu.

Everything is there and easily accessible – there is no need for external racks; just connect your amplifiers!

Digital live mixing desk C O M P A C T

Sensoft 7.3

Controlled by a removable PC

The Compact Sy40 is equipped with a PC-compatible module which runs Sensoft 7.3 and manages the control surface. The flat LCD color screen displays all the mix parameters in real time, and reflects all changes immediately. Elegantly fitted in a recess, the screen pivots around its horizontal axis so that the user can adjust its angle for optimum viewing comfort and to keep it protected during transport.



Off-line, the most faithful of assistants!

Sensoft® 7.3 is the ideal companion for an Innova SON console. It can be used on any PC, which enables you to prepare a performance at home, while travelling or in the office. A floppy disk or even an email is enough to store the console's settings – simply load the saved files – and rehearsals can begin. You can download the latest version of Sensoft free from Innova SON's website, and keep your console at the cutting edge of the latest developments.

A determinist system

The high number of Innova SON consoles which are used more than 300 days a year is clear proof of their solidity and reliability! Because the show must go on, our developers have designed a parallel architecture so that resources are distributed between the audio processors; this means that the latency and propagation times for audio signals are fixed and extremely low. All the calculations associated with dynamic processing, equalization and mixing are carried out, whether they are used or not. All types of audio processing are operational at all times. You can de-mute or open all the channels at the same time and the system will react instantaneously. With 40-bit floating point, you can be sure of more than 700 dB of headroom.

Now that your console has been configured perfectly, the soundcheck has been completed and the system is fully prepared – you can save all of your parameters with a simple push of a button. By pressing the Save button all of your settings will be saved on the static hard disk to be recalled whenever you choose, just as you left them.

Live functions

• The Link function provides four ways of creating links: input processing (dynamic, EQ etc.), level faders, mute and output groups (dynamics, EQs, delays, levels). Any set of channels can be linked together regardless of whether their respective parameters are the same or not. Changing one parameter of a linked channel has no effect on the other parameters of the other channels. Links are also associated with the current page, which means they benefit from the automation system. The Link function lets you choose which parameters you wish to link in a particular group.

• The Copy function is designed for those who are wish to save time by not doing the same thing over and over again. It duplicates the settings of one channel to another and gives you a choice of which parameters you wish to copy.

• Despite rehearsals, live work remains unpredictable. Having corrected an unforeseen problem in the current page, it is essential to copy the correction for the other songs. The Overram function provides this facility and gives the choice of which parameters and memories to use.

• Off-Line, the ultimate tool for live sound when there is a last-minute change before - or even during - the performance! You need to be able to access any page to adjust or check a setting. By using the Off-Line function, you can disconnect the console from the audio processing without affecting any audio! While the mix continues to operate, you can make your changes as needed to make that all important last-minute change happen. As soon as you release the Off-Line function, the current mix is returned just as you left it and you have easily and effortlessly made the last minute change.

FILES	PAGES	PAGES
ON DISK	ON DISK	ON RAM
INNOUA SHORUOI SHORU SHORU SHORU THEATRE	BEGIN C BREAK1 BREAK2 CHANSON1 CHANSON2 DANSE1 DANSE1 DANSE2 FINAL1 RAPPEL1 SCINE1 SON61 SON62 SON63 SON63 SON63 SON65	Kenter Kenter Kenter Kenter



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Automation

Sensoft 7.3 opens up the world of advanced automation. All the console settings can be saved in one or more pages, and called up at any time during a performance. Editing functions make it easy to construct a set list from pages stored within the console that have been created during rehearsals or at home. Innova SON provides several levels of automation for the sequencing of pages.

• Snapshot automation is the most immediate. As each page is a snapshot of the console's settings, the Next button calls up the following page, the Previous button calls up the previous page, and all the values for the parameters are applied instantaneously.

 Another option is automation with fades between one page's settings and the next. Using the automation control screen, you set a value corresponding to the length of the fade. When the Next button is pressed, the transition to the next page occurs. The Cross-Time fader allows you to adapt the transition speed to the reality of the performance so that you are always in control.

• The console can be entirely synchronized using Midi Time Code frames. The set-up screen gives you the option of triggering page changes with the arrival of MTC frames.

• The most comprehensive level of automation can be achieved using incoming or outgoing MIDI events. In the automation control screen, the user chooses which page is to be called when a MIDI program change code arrives, taking into account the values for the fade. Conversely, the user can choose which program change should be transmitted on which MIDI channel when a particular page becomes current. It is even possible for the console to be operated entirely remotely, with page changes being triggered from another console or an external sequencer.

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Digital live mixing desk

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Modular

The Compact Sy40 is a true member of the range of digital live mixing consoles designed by Innova SON and benefits fully from their modular nature.





SI-8D



MO-8D

XO-8D







DO-8X

- A choice of 6 input/output modules, analog or digital in the console itself.
- Input modules (or output) that can be placed on stage, in the Stage Box.

• The Stage Box, acting as a digital splitter is able to send up to 64 mic/line channels to one, two or three Innova SON consoles via coaxial cables, up to 500 m. For example, a very powerful mix system can be set up: Front-of-house + Monitoring + Recording, using the same Stage Box splitter. A fiber optic link is available for larger lengths.

Input and output modules. The Compact Sy40 has 6 slots for I/O modules including:

· Si-8D module: 8 analog inputs, with pre-amplification and digital conversion (24bits @ 48kHz) of each audio signal, mounted with 8 female XLR-3 connectors. Balanced inputs with remote phantom power and gain. For each input, there are 3 LEDs showing signal presence (green), distortion (red) and phantom power (yellow). The gain range extends from -27dB to +63dB, in steps of 3 dB.

• MO-8D module: 8 analog outputs, with digital to analog conversion, 24 bits@48kHz for each output, mounted with 8 male XLR-3 connectors. Balanced outputs with maximum adjustable output level (+10.5, +17 and +22 dBu). Remote mute and patch.

• XO-8D module: 8 analog outputs, the same as the MO-8D module, but with Hyper-Drive processing for each output:

- o Maximum adjustable output level from +10.5 to 22 dBu in steps of 0.5 dB
- o 8-band parametric equalizer o Compressor and gate
- o 1.35 second delay, adjustable to the nearest sample
- o Remote Mute

• Di-8S / Src module: 8 digital AES inputs, with 4 female XLR-3 connectors, numbered 1/2 to 7/8. The module allows you to receive four AES frames (8 different audio signals). The gain range extends from -6 to +6 dB, in steps of 0.1 dB. 110 ohm balanced inputs, levels in com-pliance with the AES standard. Sampling from 43 to 49 kHz according to the system clock or external synchronization. Remote delay from 0 to 5 ms. SRC option available : sample rate converter.

• DO-8A module: 8 AES digital outputs, with 4 male XLR-3 connectors, numbered from 1/2 to 7/8. This module distributes four AES frames (or eight audio signals). 110 ohm balanced outputs, levels according to the AES standard. Sampling from 43 to 49 kHz according to the system clock or external synchronization. Remote mute.

• DO-8X module: 8 AES digital ouputs, the same as the DO-8A module, but with Hyper-Drive processing for each output.

- 8-band parametric equalizer
- Compressor and gate
- 1.35 second delay, adjustable to the nearest sample
- Remote Mute

The DSP Sy40 module has a SubD-25 connector for 8 line level inputs (return lines) and a XLR-3 connector for Talk Back.

The Si-8D, Di-8S/Src, MO-8D and DO-8A modules can take place also in the Stage Box rack, allowing the Compact Sy40 to offer up to 64 mic/line physical inputs, 8 line inputs and up to 48 physical outputs (with or without Hyper-Drive).





Applications







Record/Broadcast on air production



Compact Sy40

general audio specifications (typical configuration: Si-8D input module and XO-8D output module)

Fader	linear motorized, 100mm, sensitive touch point (Innova SON patent)
Internal signal processing	32/40-bits, floating point calculation
Sampling frequency	internal : 48 kHZ external : 4349 kHZ
Signal delay (input+mix+output)	0.18 ms (standalone) digital to digital
	0.1826 ms (withStage Box) digital to digital
	1.1024 ms (standalone) analog to analog
	1.1050 ms (withStage Box) analog to analog
Frequency range	15 22kHz (+0,-3dB / input gain -6dB / level +4dBu)
Dynamic range	105dB (input gain -3dB / output gain 22dB)
THD+Noise ratio	-90dB (input gain -3dB / input level +4dBu)
Hum & Noise	-127dBu Equivalent Input Noise
	-95dBu residual output noise
	-95dBu output, all aux faders at 0dB and input channels at minimum level
	-79dBu output, all aux faders at 0dB and 1 imput channel, input gain 60dB, output gain +22dB
Maximum voltage gain	+73dB, from Si-8D to stereo out

Analog input and output

	Module	Converter	Frequency range	Dynamic range	Input gain /output level	THD + N ratio	Balanced impedance	Hyper Drive*	Connector	LEDs
Input	Si-8D	24 bits @ 48kHz delta/sigma (x64)	3Hz 20kHz +0, -3dB	105dB gain = -3dB	-27 +63dB 1.5dB steps	-90dB gain = -3dB	> 1.7 kohm	no	XLR-3 female	green: signal red: peak yellow: 48V
outout	MO-8D		5Hz 20kHz	117dB	+10.5, +17, +22dBu	-97dB	< 200 ohm	no	XLR-3	
output	XO-8D	24 bits @ 48kHz delta/sigma (x128)		gain = 22dB	+10.5+22dBu	gain = 22dBu	< 200 0mm	8-band PEQ compressor gate delay 1.35s output level	male	

Digital input and output

	Module	Format	Impedance	Sampling	Delay	Sample Rate Converter	Hyper Drive*	Connector
Input	Di-8S AES/E		110 ohm	43 49 kHz	0 5 ms	no	no	XLR-3
mput	Di-8Src	110,200		+0 +0 Ki 12	051115	yes	no	female
	DO-8A						no	
output	DO-8X	AES/EBU	110 ohm	43 49 kHz			8-band PEQ compressor gate delay 1.35s output level	XLR-3 male

*Hyper Drive

Parametric equalizer	Dynamics	Output level	
8 full parametric bands Freq. Range = 27 to 20kHz in 96 steps Gain range = -15 to + 15dB plus notch Q factor range = 1/8 to 8 oct. in 8 steps	Compressor and gate Treshold level range = -96 to +10dBFS Time parameters range = 0.5 to 200 ms Compressor ratio range = 1/1 to 1/-oo	Analog = +10.5+22dBu (XO-8D module) Digital = - 11.5 0dBFS (DO-8X module)	

specifications

215 mm 1150 mm



40 Physical inputs

• 32 mic/line or AES inputs in standalone console, to up to 64 inputs with Stage Box • 8 line level on Sy40 DSP module

Patch IN

• patch IN digital grid for physical inputs assignment to input channels

40 Input channels

- 24 mono and 8 stereo in 32 assignable motorized faders
 Cue Mute Select switches, 4-character label, gain & 48V
- · Independent pan/balance per channel and per bus
- noise gate/expander, 5 parameters
- compressor/Limiter, 5 parameters
- high-pass filter @ 12dB/oct (12 freq) • EQ 4 full band parametric filter (20...20kHz, ±15 dB/notch)

27 Mixing busses

• 12 stereo GrAux motorized faders 3 mono LRM/C master motorized faders

Patch OUT

• patch OUT digital grid for Master, GrAux and Monitoring assignment to physical outputs

Physical outputs

• 16 (standalone) to up to 48 (with Stage Box), with assignment from input channel (direct I/O) or from mixing busses. Depending on the module, full audio processing for each output (Delay, Dynamics, 8-band PEQs, Level).

Monitoring resources

• enabling PFL, AFL and APL listening all along the signal path

Smart automation

· Cross Fade Automation Fader, synchronization with MTC (Midi Time Code)

Dimensions (lxhxd)

• 1150 x 215 x 760 mm

Weight

• 40 kg

Screen • 12" LCD, folding flat screen

CPU

- PC-Compatible
- 80-key keyboard + trackball
- 1.44 Mb floppy-disk drive · solid-state internal hard disk drive
- Software
- · Sensoft 7.3 or later version
- **Interfaces**

• Midi In/Out/Thru

- **Connectors**
- Electric power supply: 100-240 VAC, 50-60 Hz 200 VA
 External PC: keyboard mouse serial & parallel ports
- **Delivery** case
- 1300 x 450 x 900 mm 70 kg

Permanent modules

- Sy40 DSP (audio processing engine, 8 return line, talk-back)
- MC64 (transmission & control)

1/0 modules

- 6 slots for analog or digital I/O modules
- 8 slots in the optional Innova SON Stage Box

Optional Stage Box with coaxial cable 150m

Unrivaled Sensory ergonomics...



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desk

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Digital live mixing

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760 mm

Compact Sy40 block diagram



Stored fader positions

An exclusive, patented innovation, the "Sensory point" reminds you of the fader level which is currently stored for the page: if you move the fader manually, you will feel a slight resistance along its run. This means that you can test several different levels without having to reload the page to return to the original setting. Another example of the help an onboard computer can provide, while leaving you in total control: indispensable for live work, don't you think?

Several hundred Innova SON consoles are already daily demonstrating the usefulness and solidity of the technology all over the world and for every application. By whichever means you enter the world of Innova SON, you will immediately feel comfortable with Sensoft, which provides a user-friendly interface common to all the consoles. Our credo is to provide modern, durable responses to your mixing needs. Finally, the Compact Sy40 is a worthy successor to the Compact Live, and it benefits from an upgra-



CO-SRC

DELAY



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