

Riedel SmartPanel RSP-1216HL

Building upon the technology that powers Riedel's SmartPanel app-driven user interfaces, the new 1200 Series RSP-1216HL multifunctional user interface features multiple full-color multi-touchscreen displays, 16 innovative hybrid lever keys, the ability to leverage apps for multifunctionality, and the ability to easily adapt to the various workflows in use today. This new panel is poised to allow you to work the way you always have while opening up entirely new workflow possibilities.

In addition to full-color touchscreens and support for multiple workflows, each of the 16 hybrid lever keys features an innovative integrated rotary encoder that provides control over variable parameters in the same location as the key itself. Each key also has an LED ring which allows for easy grouping of keys based on colors. Key Banks, a new take on shift pages, are user-definable layers of keys that are accessed by the simple press of a button on the screen.

Completely new from the ground up, the 1200 Series SmartPanels are Riedel's smartest panels yet! The SmartPanel concept decouples the panel's capabilities from its hardware and turns it into a generic device on which customers can install different apps to enable different capabilities. With a Riedel SmartPanel, you not only get what the panel is capable of today – but also what it will be capable of in the future.

RSP-1216HL SmartPanel



Legend

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|--|---|--|
| 1) Microphone Connector | 9) Light sensor / Panel Microphone | 16) MicroSD-Card Slot |
| 2) Microphone Status LED | 10) Grey Rotary Encoder | 17) Fan (temperature controlled) |
| 3) 2x Multi-touch Color Key Displays | 11) Front USB Connector | 18) 2x Ethernet Connectors (AES67/Ethernet) |
| 4) NFC / Bluetooth Connection (future use) | 12) Red Rotary Encoder (Volume Control) | 19) Expansion / Management Port (future use) |
| 5) Multi-touch Color Info Display | 13) Mains Power Connector | 20) 2x Artist Matrix Connectors (AES3) |
| 6) DSP-controlled Speaker | 14) 2x SFP Slots (AES67/Ethernet) | 21) DisplayPort (future use) |
| 7) Exchangeable Headset Connector | 15) Rear USB Connector | 22) GPI Input/Output Connectors |
| 8) 16x Hybrid Lever Keys with Rotary Encoder & LED Key rings | | 23) 2x Analog 4-Wire Input/Output Connectors |
| | | 24) 2x Headset Connectors |

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Hardware

Front Elements	
Keys & Rotaries	16× software-assignable lever keys with rotary encoder and push button 2× rotary encoders
Displays	3× high-resolution, bright color, sunlight readable TFT displays with multi-touch control (capacitive)
Mic	1× threaded 6.3 mm jack for microphone 1× internal panel microphone (future use)
Headset	User-exchangeable headset connector with preinstalled 4-pin male XLR connector
Speaker	1× full-range, DSP-controlled
USB	1× USB 2.0 (standard Type-A, max. 500 mA)
NFC	Technology RFID, Frequency 13.56 MHz (future use)
Bluetooth	Frequency DTS Band 2400 ... 2483.5 MHz (future use)
Lightsensor	Adaptation of the display brightness to the environment (future use)

Rear Elements

IEC	Power Input
SFP	2× Ethernet ETH 3 / ETH 4 (1000BASE-X, Ethernet, AES67)
USB	1× USB 2.0 (standard Type-C, max. 500 mA)
MicroSD-card	1× MicroSD / MicroSDHC card up to 32 GB (for service purpose only)
RJ45	2× Ethernet ETH 1 / ETH 2 (1000BASE-T Ethernet, AES67) 1× Expansion port for expansion panels 1× Management port for panel configuration (future use) 1× Artist Matrix connector (AES3) 2× Analog audio 4-wire inputs and outputs 2× Headset ("Headset A" is identical to front)
BNC	1× Artist Matrix connector (AES3)
DisplayPort	1× DisplayPort connector (future use)
Sub-D9 (male)	3× GPI output, U_{Max} 48 V / 300 mA, protected by self-healing fuse
Sub-D9 (female)	3× GPI input, U_{IN} = +5 V ... +48 V

Audio Specs

Maximum Level	Audio A/B Output	+24 dBu +23 dBu	@ 0 dBFS, 2 kΩ load @ 0 dBFS, 600 Ω load
	Audio A/B Input	+24 dBu	± 0 dBFS
	Headset Phones	+20.5 dBu	@ 0 dBFS, 150 Ω load
	Headset Microphone	+6 dBu	± -6 dBFS
	Internal Speaker	max. 101 dB SPL	@ 1 m
Frequency Response	Panel/Internal Mic (electret)	70 Hz ... 20 kHz, -3 dB (70 Hz high-pass filter)	@ 25 μA (± 110 dB SPL)
	Headset Mic A/B	20 Hz ... 20 kHz, -0.1 dB	@ -20 dBFS (-20 dBu), -12 dB internal gain
	Headset Phones	20 Hz ... 20 kHz, -0.4 dB	@ -20 dBFS, 150 Ω load
	Audio A/B Input	20 Hz ... 20 kHz, -0.4 dB	@ -20 dBFS (+4 dBu), 150 Ω source
	Audio A/B Output	20 Hz ... 20 kHz, -0.3 dB	@ -20 dBFS, 600 Ω load
	Internal Speaker	140 Hz ... 16.6 kHz, -10 dB	
Distortion THD+N	Panel Mic	<0.03 %, 70 Hz ... 20 kHz	@ 25 μA (± 110dB SPL)
	Headset Mic A/B	<0.004 %, 20 Hz ... 20 kHz	@ -1 dBFS (-1 dBu), -12 dB internal gain
	Headset Phones	<0.10 %, 20 Hz ... 200 Hz	
		<0.004 %, 200 Hz ... 20 kHz	@ -1 dBFS, 150 Ω load
	Audio A/B Input	<0.03 %, 20 Hz ... 200 Hz <0.004 %, 200 Hz ... 20 kHz	@ -20 dBFS, 150 Ω load
Sample Rate / Resolution	Audio A/B Output	<0.010 %, 20 Hz ... 20 kHz <0.004 %, 20 Hz ... 20 kHz	@ -1 dBFS (+23 dBu), 150 Ω source @ -20 dBFS (+4 dBu), 150 Ω source
	Audio A/B Output	<0.004 %, 20 Hz ... 20 kHz	@ -1 dBFS, 600 Ω load

General

Power	Supply voltage	100 – 240 VAC, 50 – 60 Hz
	Power consumption	≤15 W, ≤50 BTU/hr
Dimensions	Form factor	19", 1 RU
	Width × height × depth	483 (445) × 44 × 138 (95) mm / 19 (17.5) × 1.7 × 5.4 (3.7) " outer dimensions (installing dimensions)
Weight		2.3 kg / 5.1 lbs
Cooling	Fan noise	<23 dB(A) idle,
	(temperature controlled fan)	26 dB(A) max. fan speed
Environment	Operating temperature	0 ... +45°C
	Storage temperature	-30 ... +80°C
	Humidity	20 ... 90 % relative (non-condensing)
	Max. altitude	3000 m AMSL