

## Riedel SmartPanel RSP-1232HL

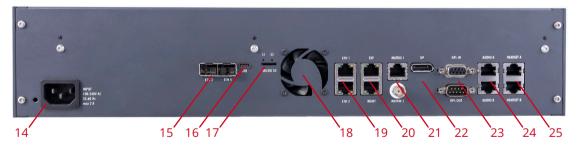
Building upon the technology that powers Riedel's SmartPanel app-driven user interfaces, the new 1200 series RSP-1232HL multifunctional interface features multiple full-color multi-touchscreen displays, 32 innovative hybrid lever keys, the ability to leverage apps for multi-functionality, and the ability 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 possibilities. In addition to full-color touchscreens and support for multiple workflows, each of the 32 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 (name and color) layers of keys that are accessed by simply pressing a button on the screen.

The RSP-1232HL is app-defined and can support multiple workflows. Some comms users prefer a "Talk/Listen" workflow where the user chooses what to listen to from an initially silent panel. Other users prefer a "Talk/Mute" workflow that starts with a panel that broadcasts everything and the users select which signals to turn off. Users decide which mode they prefer on a per-panel basis.

## RSP-1232HL SmartPanel



Rear View



## Legend

- 1) Microphone Connector
- 2) Microphone Status LED
- 3) 2× Multi-touch Color Key Displays
- 4) 32× Hybrid Lever Keys with Rotary Encoder & LED Key rings
- 5) Light sensor / Panel Microphone (future use)
- 6) Big Rotary Encoder (Volume Control)
- 7) DSP-controlled Speaker (left)
- 8) Exchangeable Headset Connector

- 9) NFC / Bluetooth Connection (future use)
- 10) Multi-touch Color Info Display
- 11) Front USB Connector
- 12) Small Rotary Encoder
- (Sidetone Control & Menu Navigation)13) DSP-controlled Speaker (right)
- 14) Mains Power Connector
- 15) 2× SFP Slots (AES67/Ethernet)
- 16) Rear USB Connector

- 17) MicroSD-Card Slot
- 18) Fan (temperature controlled)
- 19) 2× Ethernet Connectors (AES67/Ethernet)
- 20) Expansion / Management Port (future use)
- 21) 2× Artist Matrix Connectors (AES3)
- 22) DisplayPort (future use)
- 23) GPI Input/Output Connectors
- 24) 2× Analog 4-Wire Input/Output Connectors
- 25) 2× Headset Connectors



## Riedel SmartPanel RSP-1232HL

Front Elements				
Keys & Rotaries	32x software-assignable lover ke	ws with rotary encoder and push button		
Neys & Notaries	32× 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) 1× threaded 6.3 mm jack for microphone			
Mic				
	1× internal panel microphone (future use)			
Headset		nector with preinstalled 4-pin male XLR connector		
Speaker	2× full-range, DSP-controlled, Stereo			
JSB	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)			
ElGHESCHSON	production of the display bright			
Rear Elements				
EC	Power Input			
SFP	2× EtH 3 / ETH 3 / ETH 4 (1000BASE-X, Ethernet, AES67)			
JSB	1×UB 2.0 (standard Type C, max. 500 mA)			
MicroSD-card	1× MicroSD / MicroSDHC card up to 32 GB (for service purpose only)			
{]45				
	1× Expansion port for expansion panels			
	1 × Expansion port for expansion panels 1 × Management port for panel configuration (future use)			
	1× Aningement port to parte comparation (tube use)			
	2× Analog audio 4-wire inputs and outputs			
	2 × Headset ("Headset A" is identical to front)			
BNC	1x Artist Matrix connector (AES3)			
DisplayPort	1× DisplayPort connector (PLSS)			
Sub-D9 (male)	3× GPI output, UMAX 48 V / 300 mA, protected by self-healing fuse			
Sub-D9 (female)	3x GPI input, Umx 46 V 300 mx, protected by senerealing ruse			
Audio Specs				
Maximum Level	Audio A/B Output	+24 dBu	@ 0 dBFS, 2 kΩ load	
	Addio A D Odiput	+23 dBu	@ 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 Speakers (stereo)	max. 110 dB SPL	@ 1 m	
	Panel/Internal Mic (electret)	70 Hz 20 kHz, -3 dB (70 Hz high-pass filter)	@ 25 µA (≙ 110 dB SPL)	
Frequency Response	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 Input Audio A/B Output	20 Hz 20 kHz, -0.3 dB	@ -20 dBFS, 600 Ω load	
			@ -20 dBFS, 600 12 10ad	
Distortion THD+N	Internal Speakers (stereo)	120 Hz 16.6 kHz, -10 dB		
	Panel Mic	<0.03 %, 70 Hz 20 kHz	@ 25 $\mu$ A (≙ 110dB SPL) @ 1 dPES (1 dPu) 12 dP internal gain	
	Headset Mic A/B Headset Phones	<0.004 %, 20 Hz 20 kHz	@ -1 dBFS (-1 dBu), -12 dB internal gain	
	rieduset Phones	<0.10 %, 20 Hz 200 Hz <0.004 %, 200 Hz 20 kHz	@ -1 dBFS, 150 Ω load	
			a 20 dBES 150 O load	
		<0.03 %, 20 Hz 200 Hz	@ -20 dBFS, 150 Ω load	
	Audia A/D Input	<0.004 %, 200 Hz 20 kHz		
	Audio A/B Input	<0.010 %, 20 Hz 20 kHz	@ -1 dBFS (+23 dBu), 150 Ω source	
		<0.004 %, 20 Hz 20 kHz	@ -20 dBFS (+4 dBu), 150 Ω source	
2 h. + i	Audio A/B Output	<0.004 %, 20 Hz 20 kHz	@ -1 dBFS, 600 Ω load	
Resolution	48 kHz / 24 Bit			
Worall				
Overall	Cupply yeltage	100 240 //46 50 60 //-		
Power	Supply voltage	100 – 240 VAC, 50 – 60 Hz		
Dimensions	Power consumption	≤20 W, ≤70 BTU/hr		
imensions	Form factor	19", 2 RU 483 (445) × 88 × 138 (95) mm / 19 (17.5) × 3.5 × 5.4 (3.7) " outer dimensions (installing dimensions)		
A/-:	Width × height × depth		+ (3.7) outer dimensions (installing dimensions)	
Veight		3.4 kg / 7.4 lbs	0.07	
Cooling	Fan noise	<23 dB(A) idle,	@ 0.7m	
	(temperature controlled fan)	34 dB(A) max. fan speed	(noise emission meets GK15 / DIN 15996)	
Environment	Operating temperature	0 +45°C		
	Storage temperature	-30 +80°C		
	Humidity	20 90 % relative (non-condensing)		
	Max. altitude	3000 m AMSL		