

	A	B	C	D
1	Specifications			
2		RS150B	RS150	RS151
3	OS	Rose OS (based on Customized Android 7.1)	Rose OS (based on Customized Android 7.1)	Rose OS (based on Customized Android 12)
4	Design			
5	Size	430(W) x 316(D) x 123(H) mm	430(W) x 316(D) x 123(H) mm	430(W) x 316(D) x 125(H) mm
6	Weight	13 kg	13 kg	11 kg
7	Body	Milled from Solid Block of High Purity Aluminum, Minimizing Vibrations and Noise.	Milled from Solid Block of High Purity Aluminum, Minimizing Vibrations and Noise.	Milled from Solid Block of High Purity Aluminum, Minimizing Vibrations and Noise.
8	Display	14.9-inch-Wide HD IPS Touch Screen LCD	14.9-inch-Wide HD IPS Touch Screen LCD	15.4-inch-Wide TFT-LCD Touch Screen (FHD, eDP)
9				
10	CPU	Hexa Core CPU Dual-core Cortex-A72 up to 1.8GHz Quad-core Cortex-A53 up to 1.4GHz	Hexa Core CPU Dual-core Cortex-A72 up to 1.8GHz Quad-core Cortex-A53 up to 1.4GHz	Octa Core CPU RK3588 Dual-core Cortex-A72 up to 1.8GHz Quad-core Cortex-A53 up to 1.4GHz
11	GPU	Mali-T864 GPU, OpenGL ES 1.1/2.0/3.0/3.1, OenVG1.1, OpenCL, DX11	Mali-T864 GPU, OpenGL ES 1.1/2.0/3.0/3.1, OenVG1.1, OpenCL, DX11	Mali-G610 MC4, OpenGL, Vulkan, OpenCL
12	MEMORY	LPDDR3 4GByte	LPDDR3 4GByte	LPDDR4X 8 Gbyte 32 GB eMMC
13				
14	DAC Chip	ESS Technology, SABRE ES9038PRO	Asahi Kasei VERITA AK4499EQ	ESS Technology, SABRE ES9039PRO
15	Output Level	6.5Vrms (Balanced), 2.2Vrms (Unbalanced)	9.0Vrms (Balanced), 4.5Vrms (Unbalanced)	9.0Vrms (Balanced), 4.5Vrms (Unbalanced)
16	THD	0.0002%(Balanced,1KHz 6.5Vrms), 0.0003%(Unbalanced,1KHz 2.2Vrms)	0.0002%(Balanced,1KHz 9.0Vrms), 0.0003%(Unbalanced,1KHz 4.5Vrms)	0.0002%(Balanced,1KHz 9.0Vrms), 0.0003%(Unbalanced,1KHz 4.5Vrms)
17	THD + N	0.0003%(Balanced, 1KHz 6.5Vrms), 0.0004%(Unbalanced,1KHz 2.2Vrms)	0.0003%(Balanced, 1KHz 9.0Vrms), 0.0005%(Unbalanced,1KHz 4.5Vrms)	0.0002%(Balanced,1KHz 9.0Vrms), 0.0003%(Unbalanced,1KHz 4.5Vrms)
18	IMD	-103dB (Balanced), -103dB (Unbalanced), SMPTE 4:1, 60Hz:7kHz	-103dB (Balanced), -103dB (Unbalanced), SMPTE 4:1, 60Hz:7kHz	
19	Signal to Noise Ratio	121dB (Balanced), 118dB (Unbalanced), A-wt	120dB (Balanced), 117dB (Unbalanced), A-wt	131dB (Balanced), 124dB (Unbalanced), A-wt
20	Dynamic Range	Max 132 dB (CCITT filter)	Max 132dB (CCITT filter)	Max 150dB (CCITT filter)
21	Stereo Crosstalk	Max -138dB, 20-20kHz	Max -138dB, 20-20kHz	Max -143dB, 20-75kHz
22	Output Frequency Response	20Hz to 20,000 (+/-0.5dB)	20Hz to 20,000 (+/-0.5dB)	20Hz to 75,000 (+/-0.5dB)
23	Output Impedance	50Ω	100Ω	2.84Ω
24				
25	Network connection			
26	Network	Wired : Ethernet 10/100/1000 BASE-T Wireless : External USB type WiFi Dongle supported	Wired : Ethernet 10/100/1000 BASE-T Wireless : External USB type WiFi Dongle supported	Wired : Ethernet 10/100/1000 BASE-T Wireless : External USB type WiFi Dongle supported
27	Bluetooth	T : External USB type BT WiFi Dongle supported. (A2DP Sink, AVRCP v1.3) * A few types of WiFi, BT dongle is not supported.	T : External USB type BT WiFi Dongle supported. (A2DP Sink, AVRCP v1.3) * A few types of WiFi, BT dongle is not supported.	aptx 5.4 A2DP1.4, Sink, AVRCP v1.6.2)
28	Audio service	Airplay / DLNA / Roon Ready / MQA Full Decoder	Airplay / DLNA / Roon Ready / MQA Full Decoder	Bluetooth / Airplay / DLNA/UPnP / Roon Ready / Spotify Connect
29	Streaming	Qobuz / TIDAL / Internet Radio / Podcast	Qobuz / TIDAL / Internet Radio / Podcast	Qobuz / TIDAL / Internet Radio / Podcast
30	Music Service			
31				
32	Input, Output			
33	Audio input	Optical x 1, COAX x 1, Line-IN x 1, AES/EBU x 1, HDMI ARC x 1, USB DAC x 1	Optical x 1, COAX x 1, Line-IN x 1, AES/EBU x 1, HDMI ARC x 1, USB DAC x 1	Optical x 1, COAX x 1, Line-IN x 1, AES/EBU x 1, HDMI ARC x 1, USB DAC x 2
34	Audio output	Optical x 1, COAX x 1, Pre-OUT (Balanced x 1, Unbalanced x 1), USB Audio Out x1 I2S-DVI x 1, I2S-RJ45 x 1, AES/EBU x 1 Headphone Out (n/a)	Optical x 1, COAX x 1, Pre-OUT (Balanced x 1, Unbalanced x 1), USB Audio Out x1 I2S-DVI x 1, I2S-RJ45 x 1, AES/EBU x 1 Headphone Out (n/a)	Optical x 1, COAX x 1, Pre-OUT (Balanced x 1, Unbalanced x 1), USB Audio Out x1 I2S-HDMI x 1, AES/EBU x 1 Headphone Out (n/a)
35	Video output	HDMI 2.0x 1 (up to 3840 x 2160 / 60Hz)	HDMI 2.0x 1 (up to 3840 x 2160 / 60Hz)	HDMI 2.0x 1 (up to 3840 x 2160 / 60Hz)
36				
37	Media connection	File system : SMBv1, SMBv2 /FTP / WebDav / NTFS / eXfat / FAT32 Storage interface : USB3.0 x 2, MicroSD x 1, SSD x 1	File system : SMBv1, SMBv2 /FTP / WebDav / NTFS / eXfat / FAT32 Storage interface : USB3.0 x 2, MicroSD x 1, SSD x 1	File system : SMBv1, SMBv2 /FTP / WebDav / NTFS / eXfat / FAT32 Storage interface : USB3.0 x 2, MicroSD x 1, SSD x 2
38	Supported codec			
39	Audio	WAV, FLAC, AIFF, WMA, MP3, OGG, APE, DFF, DSF, AAC, CDA, AMR, APE, EC3, E-EC3, MID, MPL, MP2, MPC, MPGA, M4A PCM : 8KHz~384KHz (8/16/24/32bit per Sample) Native DSD : DSD64 (2.8MHz)/ DSD128(5.6MHz)/ DSD256(11.2MHz)/ DSD512(22.5792Mhz)	WAV, FLAC, AIFF, WMA, MP3, OGG, APE, DFF, DSF, AAC, CDA, AMR, APE, EC3, E-EC3, MID, MPL, MP2, MPC, MPGA, M4A PCM : 8KHz~384KHz (8/16/24/32bit per Sample) Native DSD : DSD64 (2.8MHz)/ DSD128(5.6MHz)/ DSD256(11.2MHz)/ DSD512(22.5792Mhz)	WAV, FLAC, AIFF, WMA, MP3, OGG, APE, DFF, DSF, AAC, CDA, AMR, APE, EC3, E-EC3, MID, MPL, MP2, MPC, MPGA, M4A PCM : 8KHz~768KHz (8/16/24/32bit per Sample) Native DSD : DSD64 (2.8MHz)/ DSD128(5.6MHz)/ DSD256(11.2MHz)/ DSD512(22.5792Mhz)
40	Video	ASF, AVI, MKV, MP4, WMV, MPEG-1, MPEG-2, MPEG-4 H.263, H.264, H.265, VC-1, VP9, VP8, MVC H.264/AVC, Base/Main/High/High10 profile@level5.1 up to 4Kx2K@30fps H.265/HEVC, Main/Main10 profile@ level 5.1 High-tier up to 4Kx2K@60fps	ASF, AVI, MKV, MP4, WMV, MPEG-1, MPEG-2, MPEG-4 H.263, H.264, H.265, VC-1, VP9, VP8, MVC H.264/AVC, Base/Main/High/High10 profile@level5.1 up to 4Kx2K@30fps H.265/HEVC, Main/Main10 profile@ level 5.1 High-tier up to 4Kx2K@60fps	ASF, AVI, MKV, MP4, WMV, MPEG-1, MPEG-2, MPEG-4 H.263, H.264, H.265, VC-1, VP9, VP8, MVC H.264/AVC, Base/Main/High/High10 profile@level5.1 up to 4Kx2K@30fps H.265/HEVC, Main/Main10 profile@ level 5.1 High-tier up to 4Kx2K@60fps
41	Power	Input Voltage : AC100-230V 50/60Hz Input Power : 55W Fuse : T3.0AL/250V	Input Voltage : AC100-230V 50/60Hz Input Power : 55W Fuse : T3.0AL/250V	Input Voltage : AC100-230V 50/60Hz Input Power : 55W Fuse : 6A Thermal Circuit Breaker
42	Update	SW update via internet, USB OTA, ROSE Store	SW update via internet, USB OTA, ROSE Store	SW update via internet, USB OTA, ROSE Store
43	Remote control			
44	Remote controller	Bluetooth Remote controller	Bluetooth Remote controller	IR Remote controller
45	Remote App	ROSE Connect (PC / Android, iOS) / Google PlayStore, App Store	ROSE Connect (PC / Android, iOS) / Google PlayStore, App Store	ROSE Connect (PC / Android, iOS) / Google PlayStore, App Store
46	Accessory	Power cord x 1, Bluetooth Remote controller x 1 (AAA battery x 2), Simple Guide x 1, SSD screw x 4, Bluetooth/WiFi dongle x 1 (sold separately)	Power cord x 1, Bluetooth Remote controller x 1 (AAA battery x 2), Simple Guide x 1, SSD screw x 4, Bluetooth/WiFi dongle x 1 (sold separately)	Power cord x 1, IR Remote controller x 1 (AAA battery x 2), Simple Guide x 1, SSD screw x 4,